

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|-----------|-------------|-------|-------|-----------|---------|-----------|
| Igfbp4 | 4.32E-282 | 0.86234967 | 0.859 | 0.511 | 4.29E-278 | 0 | 1.681018 |
| Rps29 | 2.14E-163 | 0.128148723 | 1 | 1 | 2.13E-159 | 0 | 1 |
| Pdlim4 | 1.49E-154 | 0.612869929 | 0.454 | 0.14 | 1.48E-150 | 0 | 3.242857 |
| Rps27 | 2.35E-122 | 0.086341766 | 1 | 1 | 2.34E-118 | 0 | 1 |
| Cd4 | 4.92E-112 | 0.475266233 | 0.546 | 0.254 | 4.89E-108 | 0 | 2.149606 |
| Lef1 | 7.64E-86 | 0.344810675 | 0.908 | 0.82 | 7.59E-82 | 0 | 1.107317 |
| Ibtk | 1.79E-81 | 0.407095991 | 0.341 | 0.156 | 1.78E-77 | 0 | 2.185897 |
| Rps19 | 1.78E-78 | 0.073724911 | 1 | 1 | 1.77E-74 | 0 | 1 |
| Fth1 | 9.86E-77 | 0.202205592 | 0.999 | 0.997 | 9.80E-73 | 0 | 1.002006 |
| Tmsb4x | 9.25E-76 | 0.071664193 | 1 | 1 | 9.20E-72 | 0 | 1 |
| Malat1 | 6.18E-70 | 0.103988971 | 1 | 1 | 6.14E-66 | 0 | 1 |
| Tspan32 | 5.49E-60 | 0.35229462 | 0.631 | 0.423 | 5.46E-56 | 0 | 1.491726 |
| Emp3 | 2.80E-57 | 0.291788329 | 0.826 | 0.747 | 2.78E-53 | 0 | 1.105756 |
| Klhdc2 | 6.76E-56 | 0.309367876 | 0.426 | 0.308 | 6.72E-52 | 0 | 1.383117 |
| Atp1b3 | 3.18E-55 | 0.270877674 | 0.89 | 0.834 | 3.17E-51 | 0 | 1.067146 |
| Fxyd5 | 1.64E-50 | 0.213682638 | 0.971 | 0.954 | 1.63E-46 | 0 | 1.01782 |
| Rpl14 | 1.84E-50 | 0.091473989 | 1 | 1 | 1.83E-46 | 0 | 1 |
| Cytip | 1.71E-49 | 0.264753914 | 0.728 | 0.646 | 1.70E-45 | 0 | 1.126935 |
| Ass1 | 6.87E-49 | 0.307934114 | 0.51 | 0.337 | 6.83E-45 | 0 | 1.513353 |
| Npc2 | 5.21E-48 | 0.203321067 | 0.966 | 0.944 | 5.18E-44 | 0 | 1.023305 |
| Rps16 | 3.56E-46 | 0.060589417 | 1 | 1 | 3.54E-42 | 0 | 1 |
| Emb | 4.06E-44 | 0.240895025 | 0.654 | 0.581 | 4.03E-40 | 0 | 1.125645 |
| Rps24 | 1.82E-40 | 0.040637258 | 1 | 1 | 1.80E-36 | 0 | 1 |
| Tesc | 7.30E-39 | 0.234419669 | 0.291 | 0.159 | 7.25E-35 | 0 | 1.830189 |
| Pdpf | 6.82E-38 | 0.202198491 | 0.641 | 0.591 | 6.77E-34 | 0 | 1.084602 |
| Stt3b | 5.88E-37 | 0.237966028 | 0.362 | 0.257 | 5.84E-33 | 0 | 1.40856 |
| Rps7 | 6.69E-37 | 0.024571128 | 1 | 1 | 6.65E-33 | 0 | 1 |
| Rabac1 | 2.38E-36 | 0.187498512 | 0.799 | 0.782 | 2.37E-32 | 0 | 1.021739 |
| Flt3l | 4.79E-34 | 0.210877432 | 0.297 | 0.213 | 4.76E-30 | 0 | 1.394366 |
| Dpy30 | 9.77E-34 | 0.039465799 | 0.344 | 0.39 | 9.72E-30 | 0 | 0.882051 |
| Rps28 | 3.34E-33 | 0.028086827 | 1 | 1 | 3.32E-29 | 0 | 1 |
| Srpk1 | 9.04E-33 | 0.197226133 | 0.782 | 0.734 | 8.98E-29 | 0 | 1.065395 |
| Rps27rt | 2.14E-32 | 0.118245828 | 0.999 | 0.999 | 2.12E-28 | 0 | 1 |
| Ddrgk1 | 2.83E-31 | 0.05228243 | 0.357 | 0.393 | 2.81E-27 | 0 | 0.908397 |
| Arhgap15 | 9.39E-31 | 0.176572436 | 0.699 | 0.669 | 9.33E-27 | 0 | 1.044843 |
| Vdac3 | 1.42E-30 | 0.009121428 | 0.316 | 0.368 | 1.41E-26 | 0 | 0.858696 |
| Dgka | 5.47E-30 | 0.180926515 | 0.597 | 0.549 | 5.44E-26 | 0 | 1.087432 |
| 1500011K16Rik | 8.53E-30 | 0.051803622 | 0.316 | 0.355 | 8.48E-26 | 0 | 0.890141 |
| Glrx2 | 1.52E-29 | 0.027575073 | 0.26 | 0.297 | 1.52E-25 | 0 | 0.875421 |
| Ccr7 | 1.61E-29 | 0.192950892 | 0.784 | 0.739 | 1.60E-25 | 0 | 1.060893 |
| Samm50 | 2.45E-29 | 0.008165947 | 0.318 | 0.366 | 2.43E-25 | 0 | 0.868852 |
| Chd7 | 6.44E-29 | 0.088694269 | 0.331 | 0.343 | 6.40E-25 | 0 | 0.965015 |
| Tmem14c | 7.29E-29 | 0.001757856 | 0.397 | 0.471 | 7.25E-25 | 0 | 0.842887 |
| Naa10 | 8.64E-29 | 0.090199117 | 0.35 | 0.356 | 8.59E-25 | 0 | 0.983146 |
| Sod2 | 9.33E-29 | 0.055584735 | 0.33 | 0.35 | 9.27E-25 | 0 | 0.942857 |
| Atxn10 | 1.31E-28 | 0.115330649 | 0.269 | 0.247 | 1.30E-24 | 0 | 1.089069 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Eif4a3 | 1.47E-28 | 0.013216422 | 0.357 | 0.415 | 1.46E-24 | 0 | 0.860241 |
| Gpx1 | 1.72E-28 | 0.158694614 | 0.635 | 0.609 | 1.71E-24 | 0 | 1.042693 |
| Prdx3 | 2.70E-28 | 0.054577796 | 0.341 | 0.372 | 2.69E-24 | 0 | 0.916667 |
| Slc25a11 | 3.09E-28 | 0.042150193 | 0.328 | 0.368 | 3.07E-24 | 0 | 0.891304 |
| BC003965 | 6.84E-28 | 0.001118248 | 0.248 | 0.293 | 6.80E-24 | 0 | 0.846416 |
| Spg21 | 7.49E-28 | 0.037202782 | 0.273 | 0.291 | 7.45E-24 | 0 | 0.938144 |
| Al467606 | 7.52E-28 | 0.19419384 | 0.476 | 0.403 | 7.47E-24 | 0 | 1.181141 |
| Fam96a | 1.39E-27 | 0.003722921 | 0.379 | 0.439 | 1.38E-23 | 0 | 0.863326 |
| Sit1 | 1.97E-27 | 0.152846538 | 0.368 | 0.328 | 1.96E-23 | 0 | 1.121951 |
| Sar1b | 2.16E-27 | 0.010534571 | 0.236 | 0.271 | 2.14E-23 | 0 | 0.870849 |
| Rpl12 | 2.57E-27 | 0.078452374 | 0.999 | 1 | 2.55E-23 | 0 | 0.999 |
| Tmem60 | 2.59E-27 | 0.077190077 | 0.26 | 0.26 | 2.58E-23 | 0 | 1 |
| Trib2 | 5.75E-27 | 0.198305362 | 0.298 | 0.216 | 5.72E-23 | 0 | 1.37963 |
| Cd247 | 6.79E-27 | 0.144904219 | 0.598 | 0.578 | 6.75E-23 | 0 | 1.034602 |
| Adrm1 | 7.31E-27 | 0.007515298 | 0.273 | 0.325 | 7.26E-23 | 0 | 0.84 |
| Bcl2 | 7.56E-27 | 0.220673647 | 0.765 | 0.761 | 7.51E-23 | 0 | 1.005256 |
| Ntan1 | 1.04E-26 | 0.008317284 | 0.275 | 0.32 | 1.03E-22 | 0 | 0.859375 |
| Pcbd2 | 1.18E-26 | 0.135838404 | 0.288 | 0.254 | 1.17E-22 | 0 | 1.133858 |
| Lamtor1 | 1.48E-26 | 0.010510492 | 0.34 | 0.391 | 1.47E-22 | 0 | 0.869565 |
| Il6ra | 1.70E-26 | 0.200129658 | 0.466 | 0.388 | 1.69E-22 | 0 | 1.201031 |
| Commd2 | 2.02E-26 | 0.011057011 | 0.22 | 0.254 | 2.01E-22 | 0 | 0.866142 |
| Rab24 | 2.52E-26 | 0.009021205 | 0.267 | 0.313 | 2.50E-22 | 0 | 0.853035 |
| Sepp1 | 2.59E-26 | 0.220753698 | 0.36 | 0.267 | 2.57E-22 | 0 | 1.348315 |
| Atg3 | 2.75E-26 | 0.051433927 | 0.283 | 0.298 | 2.74E-22 | 0 | 0.949664 |
| Otub1 | 2.85E-26 | 0.003677793 | 0.211 | 0.253 | 2.83E-22 | 0 | 0.833992 |
| Usf2 | 2.96E-26 | 0.021442761 | 0.29 | 0.337 | 2.94E-22 | 0 | 0.860534 |
| C1d | 2.98E-26 | 0.008768682 | 0.332 | 0.382 | 2.96E-22 | 0 | 0.86911 |
| Uchl3 | 3.82E-26 | 0.058596882 | 0.312 | 0.325 | 3.80E-22 | 0 | 0.96 |
| Psip1 | 3.84E-26 | 0.143863061 | 0.5 | 0.481 | 3.82E-22 | 0 | 1.039501 |
| Ppp1cb | 3.92E-26 | 0.060446275 | 0.282 | 0.293 | 3.90E-22 | 0 | 0.962457 |
| 0610007P14Rik | 4.44E-26 | 0.066676512 | 0.275 | 0.287 | 4.42E-22 | 0 | 0.958188 |
| Vbp1 | 5.15E-26 | 0.023895706 | 0.248 | 0.277 | 5.12E-22 | 0 | 0.895307 |
| Rbm7 | 5.83E-26 | 0.069252295 | 0.343 | 0.354 | 5.79E-22 | 0 | 0.968927 |
| Snrpc | 5.84E-26 | 0.044938543 | 0.385 | 0.412 | 5.81E-22 | 0 | 0.934466 |
| Sumo3 | 6.75E-26 | 0.005967118 | 0.212 | 0.261 | 6.71E-22 | 0 | 0.812261 |
| Pin4 | 7.23E-26 | 0.004844648 | 0.268 | 0.32 | 7.18E-22 | 0 | 0.8375 |
| Smim11 | 7.72E-26 | 0.003212622 | 0.289 | 0.343 | 7.67E-22 | 0 | 0.842566 |
| Babam1 | 7.97E-26 | 0.035613674 | 0.231 | 0.256 | 7.92E-22 | 0 | 0.902344 |
| Mrpl40 | 9.37E-26 | 0.033807564 | 0.243 | 0.265 | 9.32E-22 | 0 | 0.916981 |
| Atp6v0b | 9.92E-26 | 0.04405182 | 0.335 | 0.366 | 9.86E-22 | 0 | 0.915301 |
| Eif1b | 1.03E-25 | 0.030473318 | 0.385 | 0.429 | 1.03E-21 | 0 | 0.897436 |
| Grcc10 | 1.15E-25 | 0.162384354 | 0.679 | 0.646 | 1.14E-21 | 0 | 1.051084 |
| Arid1a | 1.19E-25 | 0.014895702 | 0.276 | 0.326 | 1.18E-21 | 0 | 0.846626 |
| Rpl8 | 1.24E-25 | 0.035843577 | 1 | 1 | 1.24E-21 | 0 | 1 |
| Napa | 1.30E-25 | 0.01916176 | 0.289 | 0.33 | 1.29E-21 | 0 | 0.875758 |
| Mob4 | 1.46E-25 | 0.019972433 | 0.257 | 0.288 | 1.45E-21 | 0 | 0.892361 |

| | | | | | | | |
|----------|----------|-------------|-------|-------|----------|---|----------|
| Mrps10 | 2.39E-25 | 0.023651416 | 0.246 | 0.274 | 2.38E-21 | 0 | 0.89781 |
| Zfr | 3.00E-25 | 0.020935733 | 0.22 | 0.261 | 2.98E-21 | 0 | 0.842912 |
| Hnrnnpm | 4.19E-25 | 0.07056918 | 0.521 | 0.555 | 4.17E-21 | 0 | 0.938739 |
| Acbd6 | 4.21E-25 | 0.011707575 | 0.28 | 0.32 | 4.18E-21 | 0 | 0.875 |
| Flna | 4.85E-25 | 0.124720414 | 0.341 | 0.322 | 4.82E-21 | 0 | 1.059006 |
| Esco1 | 4.90E-25 | 0.01878188 | 0.253 | 0.294 | 4.88E-21 | 0 | 0.860544 |
| Pstpip1 | 5.53E-25 | 0.001457429 | 0.237 | 0.289 | 5.49E-21 | 0 | 0.820069 |
| Ndufa9 | 5.72E-25 | 0.010099288 | 0.309 | 0.349 | 5.68E-21 | 0 | 0.885387 |
| Mpc2 | 6.47E-25 | 0.015018068 | 0.386 | 0.441 | 6.43E-21 | 0 | 0.875283 |
| Psmd13 | 7.19E-25 | 0.010734931 | 0.303 | 0.35 | 7.15E-21 | 0 | 0.865714 |
| Atp1b1 | 8.03E-25 | 0.178603122 | 0.356 | 0.285 | 7.99E-21 | 0 | 1.249123 |
| Mrps33 | 8.41E-25 | 0.066217777 | 0.535 | 0.571 | 8.36E-21 | 0 | 0.936953 |
| Nsfl1c | 8.71E-25 | 0.010388463 | 0.256 | 0.296 | 8.66E-21 | 0 | 0.864865 |
| Emc3 | 9.52E-25 | 0.004577374 | 0.223 | 0.268 | 9.47E-21 | 0 | 0.83209 |
| Tigd2 | 9.65E-25 | 0.004851114 | 0.285 | 0.33 | 9.60E-21 | 0 | 0.863636 |
| Tmem123 | 1.19E-24 | 0.003692657 | 0.322 | 0.374 | 1.19E-20 | 0 | 0.860963 |
| Gpsm3 | 1.22E-24 | 0.145874211 | 0.754 | 0.746 | 1.21E-20 | 0 | 1.010724 |
| Pycard | 1.40E-24 | 0.156008491 | 0.665 | 0.631 | 1.39E-20 | 0 | 1.053883 |
| Bbip1 | 1.56E-24 | 0.040028529 | 0.231 | 0.258 | 1.55E-20 | 0 | 0.895349 |
| Hnrnpul1 | 1.64E-24 | 0.02673263 | 0.291 | 0.324 | 1.63E-20 | 0 | 0.898148 |
| Madd | 1.75E-24 | 0.110219852 | 0.336 | 0.316 | 1.73E-20 | 0 | 1.063291 |
| Mcrs1 | 1.80E-24 | 0.03190427 | 0.251 | 0.282 | 1.79E-20 | 0 | 0.890071 |
| Psmc3 | 2.01E-24 | 0.021028818 | 0.386 | 0.442 | 1.99E-20 | 0 | 0.873303 |
| Ppm1g | 2.10E-24 | 0.04568809 | 0.409 | 0.445 | 2.09E-20 | 0 | 0.919101 |
| Tmem147 | 2.23E-24 | 0.038432687 | 0.261 | 0.285 | 2.21E-20 | 0 | 0.915789 |
| Gtf2a2 | 2.30E-24 | 0.072487621 | 0.421 | 0.44 | 2.29E-20 | 0 | 0.956818 |
| Bola3 | 2.37E-24 | 0.017156546 | 0.302 | 0.35 | 2.36E-20 | 0 | 0.862857 |
| Mcts1 | 2.95E-24 | 0.001323743 | 0.285 | 0.337 | 2.94E-20 | 0 | 0.845697 |
| Sh3bgrl3 | 3.20E-24 | 0.150883137 | 0.974 | 0.967 | 3.18E-20 | 0 | 1.007239 |
| Pum2 | 3.24E-24 | 0.057557264 | 0.305 | 0.332 | 3.22E-20 | 0 | 0.918675 |
| Bud31 | 3.43E-24 | 0.022013359 | 0.392 | 0.438 | 3.41E-20 | 0 | 0.894977 |
| R3hdm4 | 3.67E-24 | 0.023696978 | 0.274 | 0.305 | 3.65E-20 | 0 | 0.898361 |
| Smu1 | 3.75E-24 | 0.057006918 | 0.295 | 0.31 | 3.73E-20 | 0 | 0.951613 |
| Tsc22d3 | 3.76E-24 | 0.209979049 | 0.465 | 0.38 | 3.73E-20 | 0 | 1.223684 |
| Bcas2 | 4.19E-24 | 0.074217908 | 0.592 | 0.625 | 4.16E-20 | 0 | 0.9472 |
| Taz | 4.57E-24 | 4.61E-07 | 0.23 | 0.277 | 4.54E-20 | 0 | 0.830325 |
| Exosc7 | 4.81E-24 | 0.012111357 | 0.277 | 0.316 | 4.78E-20 | 0 | 0.876582 |
| Dctn6 | 5.17E-24 | 0.076684564 | 0.271 | 0.272 | 5.14E-20 | 0 | 0.996324 |
| Med30 | 5.37E-24 | 0.002489683 | 0.245 | 0.291 | 5.34E-20 | 0 | 0.841924 |
| Rchy1 | 5.45E-24 | 0.084594389 | 0.429 | 0.436 | 5.42E-20 | 0 | 0.983945 |
| Pdcd2 | 5.74E-24 | 0.00513115 | 0.27 | 0.314 | 5.70E-20 | 0 | 0.859873 |
| Eif3j1 | 6.19E-24 | 0.015350416 | 0.326 | 0.372 | 6.15E-20 | 0 | 0.876344 |
| Bclaf1 | 6.48E-24 | 0.014528126 | 0.396 | 0.46 | 6.45E-20 | 0 | 0.86087 |
| Iscu | 8.69E-24 | 0.036571769 | 0.316 | 0.348 | 8.64E-20 | 0 | 0.908046 |
| Naa38 | 9.29E-24 | 0.010395704 | 0.336 | 0.38 | 9.24E-20 | 0 | 0.884211 |
| Suds3 | 9.49E-24 | 0.042423555 | 0.233 | 0.253 | 9.43E-20 | 0 | 0.920949 |
| Il4ra | 1.02E-23 | 0.098253798 | 0.334 | 0.336 | 1.01E-19 | 0 | 0.994048 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Smarcd2 | 1.14E-23 | 0.003728712 | 0.23 | 0.264 | 1.13E-19 | 0 | 0.871212 |
| Snx17 | 1.23E-23 | 0.031632051 | 0.276 | 0.304 | 1.22E-19 | 0 | 0.907895 |
| Gps2 | 1.28E-23 | 0.01739762 | 0.312 | 0.353 | 1.27E-19 | 0 | 0.883853 |
| Alg5 | 1.34E-23 | 0.007234396 | 0.233 | 0.271 | 1.33E-19 | 0 | 0.859779 |
| 02-Mar | 1.60E-23 | 0.006180862 | 0.307 | 0.355 | 1.59E-19 | 0 | 0.864789 |
| Rab14 | 1.69E-23 | 0.013650056 | 0.424 | 0.484 | 1.68E-19 | 0 | 0.876033 |
| Pik3cd | 1.71E-23 | 0.041273669 | 0.3 | 0.334 | 1.70E-19 | 0 | 0.898204 |
| Angel2 | 1.73E-23 | 0.035422728 | 0.246 | 0.277 | 1.72E-19 | 0 | 0.888087 |
| Cd9 | 1.78E-23 | 0.169856417 | 0.371 | 0.295 | 1.77E-19 | 0 | 1.257627 |
| Commd8 | 2.01E-23 | 0.109284247 | 0.457 | 0.447 | 2.00E-19 | 0 | 1.022371 |
| Tecpr1 | 2.13E-23 | 0.166576922 | 0.441 | 0.385 | 2.12E-19 | 0 | 1.145455 |
| Gstp1 | 2.38E-23 | 0.108164226 | 0.402 | 0.393 | 2.37E-19 | 0 | 1.022901 |
| Rbbp4 | 2.40E-23 | 0.02029682 | 0.435 | 0.491 | 2.38E-19 | 0 | 0.885947 |
| Tmpo | 2.54E-23 | 0.025497455 | 0.257 | 0.284 | 2.53E-19 | 0 | 0.90493 |
| Mtfr1l | 2.55E-23 | 0.0652523 | 0.271 | 0.276 | 2.54E-19 | 0 | 0.981884 |
| Psmc5 | 2.74E-23 | 0.008212401 | 0.385 | 0.43 | 2.72E-19 | 0 | 0.895349 |
| Stk38 | 3.01E-23 | 0.168680724 | 0.612 | 0.565 | 2.99E-19 | 0 | 1.083186 |
| Cyth1 | 3.51E-23 | 0.068900336 | 0.405 | 0.428 | 3.49E-19 | 0 | 0.946262 |
| Cdipt | 3.76E-23 | 0.112528643 | 0.405 | 0.391 | 3.74E-19 | 0 | 1.035806 |
| Pddc1 | 3.80E-23 | 0.00931684 | 0.231 | 0.261 | 3.78E-19 | 0 | 0.885057 |
| Kcnn4 | 3.82E-23 | 0.13751852 | 0.45 | 0.412 | 3.80E-19 | 0 | 1.092233 |
| Acat1 | 3.91E-23 | 0.065605086 | 0.317 | 0.315 | 3.88E-19 | 0 | 1.006349 |
| Hddc2 | 3.99E-23 | 0.062484514 | 0.252 | 0.261 | 3.97E-19 | 0 | 0.965517 |
| Arf4 | 4.06E-23 | 0.005848781 | 0.292 | 0.34 | 4.04E-19 | 0 | 0.858824 |
| Yipf4 | 4.21E-23 | 0.046201905 | 0.267 | 0.285 | 4.19E-19 | 0 | 0.936842 |
| Rps2 | 4.49E-23 | 0.000742036 | 1 | 1 | 4.46E-19 | 0 | 1 |
| Gnai3 | 5.04E-23 | 0.023626042 | 0.271 | 0.304 | 5.01E-19 | 0 | 0.891447 |
| Arcn1 | 5.14E-23 | 0.000675 | 0.219 | 0.251 | 5.11E-19 | 0 | 0.87251 |
| Psm14 | 5.19E-23 | 0.00774904 | 0.321 | 0.362 | 5.16E-19 | 0 | 0.88674 |
| Nol12 | 5.31E-23 | 0.023084002 | 0.283 | 0.311 | 5.28E-19 | 0 | 0.909968 |
| Gm12166 | 5.48E-23 | 0.006351872 | 0.295 | 0.337 | 5.45E-19 | 0 | 0.875371 |
| 1810043H04Rik | 5.70E-23 | 0.031239449 | 0.374 | 0.417 | 5.66E-19 | 0 | 0.896882 |
| Rexo2 | 5.90E-23 | 0.133115519 | 0.585 | 0.58 | 5.86E-19 | 0 | 1.008621 |
| Snx5 | 6.33E-23 | 0.006093297 | 0.331 | 0.39 | 6.29E-19 | 0 | 0.848718 |
| Sf3b4 | 6.33E-23 | 0.003701054 | 0.285 | 0.331 | 6.30E-19 | 0 | 0.861027 |
| Mrps26 | 6.72E-23 | 0.045241885 | 0.474 | 0.511 | 6.68E-19 | 0 | 0.927593 |
| Dcaf8 | 7.14E-23 | 0.002629458 | 0.291 | 0.333 | 7.09E-19 | 0 | 0.873874 |
| Rbm17 | 7.16E-23 | 0.028212705 | 0.318 | 0.352 | 7.12E-19 | 0 | 0.903409 |
| Ikzf1 | 7.22E-23 | 0.11139884 | 0.582 | 0.59 | 7.17E-19 | 0 | 0.986441 |
| Ubn1 | 7.37E-23 | 0.04731998 | 0.298 | 0.324 | 7.32E-19 | 0 | 0.919753 |
| Smim15 | 7.62E-23 | 0.066490075 | 0.283 | 0.294 | 7.57E-19 | 0 | 0.962585 |
| Glo1 | 7.67E-23 | 0.039865903 | 0.32 | 0.338 | 7.62E-19 | 0 | 0.946746 |
| AI413582 | 8.17E-23 | 0.00284981 | 0.336 | 0.388 | 8.13E-19 | 0 | 0.865979 |
| Canx | 8.21E-23 | 0.012708809 | 0.39 | 0.45 | 8.16E-19 | 0 | 0.866667 |
| Fnta | 8.65E-23 | 0.019771003 | 0.244 | 0.278 | 8.59E-19 | 0 | 0.877698 |
| Rbm42 | 8.94E-23 | 0.006895605 | 0.262 | 0.303 | 8.89E-19 | 0 | 0.864686 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Dazap2 | 9.28E-23 | 0.015906361 | 0.369 | 0.419 | 9.23E-19 | 0 | 0.880668 |
| Wdr46 | 1.04E-22 | 0.088857455 | 0.358 | 0.358 | 1.03E-18 | 0 | 1 |
| Nudt16 | 1.04E-22 | 0.020240754 | 0.244 | 0.264 | 1.04E-18 | 0 | 0.924242 |
| Mthfd2 | 1.21E-22 | 0.118475506 | 0.26 | 0.216 | 1.20E-18 | 0 | 1.203704 |
| Rpa1 | 1.46E-22 | 0.0775395 | 0.3 | 0.304 | 1.45E-18 | 0 | 0.986842 |
| Ccdc59 | 1.49E-22 | 0.010367876 | 0.289 | 0.341 | 1.49E-18 | 0 | 0.847507 |
| 1700123O20Rik | 1.65E-22 | 0.001477283 | 0.224 | 0.265 | 1.64E-18 | 0 | 0.845283 |
| Arfrp1 | 1.67E-22 | 0.011341633 | 0.27 | 0.301 | 1.66E-18 | 0 | 0.89701 |
| Derl1 | 1.80E-22 | 0.016648645 | 0.272 | 0.303 | 1.79E-18 | 0 | 0.89769 |
| Itgb7 | 1.82E-22 | 0.179564959 | 0.74 | 0.667 | 1.81E-18 | 0 | 1.109445 |
| Mrpl11 | 1.85E-22 | 0.021863643 | 0.229 | 0.258 | 1.84E-18 | 0 | 0.887597 |
| Maf1 | 1.95E-22 | 0.006168031 | 0.353 | 0.412 | 1.94E-18 | 0 | 0.856796 |
| Drg1 | 2.20E-22 | 0.008789395 | 0.241 | 0.275 | 2.18E-18 | 0 | 0.876364 |
| Ndufa10 | 2.24E-22 | 0.020289769 | 0.457 | 0.516 | 2.22E-18 | 0 | 0.885659 |
| Mysm1 | 2.28E-22 | 0.022057165 | 0.276 | 0.311 | 2.27E-18 | 0 | 0.88746 |
| Ndufv1 | 2.33E-22 | 0.025755295 | 0.241 | 0.271 | 2.32E-18 | 0 | 0.889299 |
| Psmc1 | 2.55E-22 | 0.017231692 | 0.258 | 0.291 | 2.54E-18 | 0 | 0.886598 |
| Phf14 | 2.71E-22 | 0.070019314 | 0.307 | 0.316 | 2.69E-18 | 0 | 0.971519 |
| 2810428I15Rik | 2.81E-22 | 0.047486643 | 0.395 | 0.418 | 2.79E-18 | 0 | 0.944976 |
| Fam173a | 3.11E-22 | 0.076296658 | 0.386 | 0.401 | 3.09E-18 | 0 | 0.962594 |
| Rbm38 | 3.58E-22 | 0.088178319 | 0.424 | 0.431 | 3.56E-18 | 0 | 0.983759 |
| Ccdc124 | 3.85E-22 | 0.046536738 | 0.297 | 0.322 | 3.83E-18 | 0 | 0.92236 |
| Mettl9 | 3.91E-22 | 0.096991663 | 0.3 | 0.285 | 3.89E-18 | 0 | 1.052632 |
| Cisd2 | 4.05E-22 | 0.011070998 | 0.369 | 0.422 | 4.02E-18 | 0 | 0.874408 |
| Ccdc115 | 4.08E-22 | 0.031489978 | 0.266 | 0.293 | 4.06E-18 | 0 | 0.90785 |
| Elmo1 | 4.55E-22 | 0.075053758 | 0.342 | 0.349 | 4.52E-18 | 0 | 0.979943 |
| Sirt7 | 4.78E-22 | 0.034736641 | 0.397 | 0.436 | 4.76E-18 | 0 | 0.91055 |
| Wbp11 | 4.99E-22 | 0.012354552 | 0.344 | 0.389 | 4.96E-18 | 0 | 0.884319 |
| Bre | 5.18E-22 | 0.004757475 | 0.218 | 0.253 | 5.15E-18 | 0 | 0.86166 |
| Abcf1 | 5.25E-22 | 0.009972175 | 0.342 | 0.39 | 5.22E-18 | 0 | 0.876923 |
| Trappc6b | 5.28E-22 | 0.019706492 | 0.321 | 0.363 | 5.25E-18 | 0 | 0.884298 |
| Nsmce1 | 6.20E-22 | 0.077354806 | 0.41 | 0.425 | 6.16E-18 | 0 | 0.964706 |
| Aqr | 6.32E-22 | 0.13413194 | 0.36 | 0.319 | 6.29E-18 | 0 | 1.128527 |
| Thap3 | 6.37E-22 | 0.001811424 | 0.283 | 0.325 | 6.33E-18 | 0 | 0.870769 |
| Lage3 | 7.22E-22 | 0.009198862 | 0.281 | 0.317 | 7.18E-18 | 0 | 0.886435 |
| Rad23a | 7.31E-22 | 0.029388477 | 0.255 | 0.271 | 7.27E-18 | 0 | 0.940959 |
| Mrpl35 | 7.39E-22 | 0.001628341 | 0.232 | 0.276 | 7.35E-18 | 0 | 0.84058 |
| Psmc6 | 7.87E-22 | 0.012508457 | 0.314 | 0.356 | 7.82E-18 | 0 | 0.882022 |
| Thoc2 | 8.27E-22 | 0.017827334 | 0.403 | 0.464 | 8.22E-18 | 0 | 0.868534 |
| Trappc3 | 8.43E-22 | 0.001724718 | 0.216 | 0.256 | 8.38E-18 | 0 | 0.84375 |
| Cmtm6 | 9.51E-22 | 0.067861741 | 0.298 | 0.302 | 9.45E-18 | 0 | 0.986755 |
| Eif2s3y | 9.95E-22 | 0.015123577 | 0.293 | 0.336 | 9.89E-18 | 0 | 0.872024 |
| Vrk1 | 9.97E-22 | 0.024299593 | 0.278 | 0.309 | 9.91E-18 | 0 | 0.899676 |
| Dnajc19 | 1.01E-21 | 0.036712976 | 0.385 | 0.418 | 1.00E-17 | 0 | 0.921053 |
| Tpd52l2 | 1.04E-21 | 0.019850053 | 0.245 | 0.276 | 1.03E-17 | 0 | 0.887681 |
| Stx4a | 1.13E-21 | 0.001808021 | 0.262 | 0.307 | 1.12E-17 | 0 | 0.85342 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Rpn2 | 1.14E-21 | 0.039655054 | 0.388 | 0.422 | 1.13E-17 | 0 | 0.919431 |
| Fbxw2 | 1.23E-21 | 0.014433673 | 0.361 | 0.395 | 1.22E-17 | 0 | 0.913924 |
| Azi2 | 1.26E-21 | 0.010993082 | 0.256 | 0.289 | 1.25E-17 | 0 | 0.885813 |
| Oxct1 | 1.26E-21 | 0.098756994 | 0.32 | 0.307 | 1.25E-17 | 0 | 1.042345 |
| Ilf2 | 1.30E-21 | 0.001657739 | 0.313 | 0.359 | 1.29E-17 | 0 | 0.871866 |
| Polr2f | 1.45E-21 | 0.031081292 | 0.409 | 0.453 | 1.44E-17 | 0 | 0.90287 |
| Tpp2 | 1.48E-21 | 0.053912404 | 0.249 | 0.264 | 1.47E-17 | 0 | 0.943182 |
| Trappc1 | 1.50E-21 | 0.065506188 | 0.251 | 0.25 | 1.49E-17 | 0 | 1.004 |
| Hmox2 | 1.56E-21 | 0.019376831 | 0.267 | 0.296 | 1.55E-17 | 0 | 0.902027 |
| Mphosph10 | 1.61E-21 | 0.025042892 | 0.298 | 0.337 | 1.60E-17 | 0 | 0.884273 |
| Immnp1l | 1.76E-21 | 0.012280684 | 0.28 | 0.313 | 1.75E-17 | 0 | 0.894569 |
| Ndufs7 | 1.78E-21 | 0.04603491 | 0.504 | 0.542 | 1.77E-17 | 0 | 0.929889 |
| Cmc1 | 1.82E-21 | 0.062436867 | 0.302 | 0.312 | 1.81E-17 | 0 | 0.967949 |
| Sde2 | 1.83E-21 | 0.027705318 | 0.232 | 0.252 | 1.81E-17 | 0 | 0.920635 |
| Frmd8 | 1.86E-21 | 0.033604821 | 0.257 | 0.284 | 1.85E-17 | 0 | 0.90493 |
| Ndufb3 | 1.89E-21 | 0.015025324 | 0.526 | 0.59 | 1.88E-17 | 0 | 0.891525 |
| Actr10 | 1.91E-21 | 0.007736219 | 0.267 | 0.31 | 1.90E-17 | 0 | 0.86129 |
| Anxa5 | 1.94E-21 | 0.12053871 | 0.318 | 0.291 | 1.93E-17 | 0 | 1.092784 |
| Nsmce4a | 2.00E-21 | 0.052722539 | 0.399 | 0.414 | 1.99E-17 | 0 | 0.963768 |
| Tcea1 | 2.36E-21 | 0.02199193 | 0.306 | 0.341 | 2.35E-17 | 0 | 0.897361 |
| Mrpl48 | 2.45E-21 | 0.033633607 | 0.245 | 0.269 | 2.43E-17 | 0 | 0.910781 |
| Cdc40 | 2.52E-21 | 0.052472786 | 0.302 | 0.319 | 2.51E-17 | 0 | 0.946708 |
| Imp4 | 2.60E-21 | 0.018850975 | 0.245 | 0.278 | 2.58E-17 | 0 | 0.881295 |
| Bccip | 2.69E-21 | 0.032807992 | 0.356 | 0.389 | 2.67E-17 | 0 | 0.915167 |
| Hdac2 | 2.80E-21 | 0.042405046 | 0.265 | 0.277 | 2.78E-17 | 0 | 0.956679 |
| Rtfdc1 | 2.83E-21 | 0.03508 | 0.3 | 0.325 | 2.81E-17 | 0 | 0.923077 |
| Srpk2 | 2.85E-21 | 0.092339301 | 0.482 | 0.476 | 2.83E-17 | 0 | 1.012605 |
| Atraid | 2.90E-21 | 0.059748718 | 0.304 | 0.304 | 2.88E-17 | 0 | 1 |
| Vps36 | 2.94E-21 | 0.009864973 | 0.243 | 0.282 | 2.92E-17 | 0 | 0.861702 |
| 4933434E20Rik | 3.09E-21 | 0.013320825 | 0.275 | 0.32 | 3.07E-17 | 0 | 0.859375 |
| Rala | 3.13E-21 | 0.031714462 | 0.28 | 0.31 | 3.11E-17 | 0 | 0.903226 |
| Zcchc7 | 3.21E-21 | 0.016901073 | 0.406 | 0.456 | 3.19E-17 | 0 | 0.890351 |
| Yme1l1 | 3.49E-21 | 0.024841245 | 0.243 | 0.277 | 3.47E-17 | 0 | 0.877256 |
| Chtf8 | 3.61E-21 | 0.019744192 | 0.221 | 0.254 | 3.59E-17 | 0 | 0.870079 |
| Cnot4 | 3.67E-21 | 0.031403814 | 0.346 | 0.372 | 3.65E-17 | 0 | 0.930108 |
| Prkacb | 3.70E-21 | 0.015990036 | 0.292 | 0.327 | 3.68E-17 | 0 | 0.892966 |
| 0610011F06Rik | 3.72E-21 | 0.017847334 | 0.278 | 0.31 | 3.70E-17 | 0 | 0.896774 |
| Tspo | 3.84E-21 | 0.14158359 | 0.817 | 0.786 | 3.81E-17 | 0 | 1.03944 |
| Psmb6 | 4.14E-21 | 0.045834077 | 0.594 | 0.637 | 4.12E-17 | 0 | 0.932496 |
| Rgs19 | 4.32E-21 | 0.023406747 | 0.311 | 0.343 | 4.29E-17 | 0 | 0.906706 |
| Limd2 | 4.58E-21 | 0.126717789 | 0.992 | 0.99 | 4.55E-17 | 0 | 1.00202 |
| Commd3 | 4.67E-21 | 0.026392874 | 0.338 | 0.375 | 4.64E-17 | 0 | 0.901333 |
| Kdelr1 | 4.74E-21 | 0.033651075 | 0.241 | 0.26 | 4.71E-17 | 0 | 0.926923 |
| Mdm4 | 4.79E-21 | 0.011053509 | 0.232 | 0.273 | 4.76E-17 | 0 | 0.849817 |
| H2-Ke6 | 4.92E-21 | 0.075591156 | 0.429 | 0.438 | 4.89E-17 | 0 | 0.979452 |
| Brix1 | 5.06E-21 | 0.044552848 | 0.269 | 0.289 | 5.03E-17 | 0 | 0.930796 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------|----------|-------------|-------|-------|-----------|---------|-----------|
| Polr2l | 5.19E-21 | 0.01701011 | 0.351 | 0.395 | 5.16E-17 | 0 | 0.888608 |
| Zc3h7a | 5.19E-21 | 0.027116604 | 0.26 | 0.282 | 5.16E-17 | 0 | 0.921986 |
| Fam134b | 5.20E-21 | 0.092552211 | 0.282 | 0.274 | 5.17E-17 | 0 | 1.029197 |
| Selt | 5.28E-21 | 0.002864555 | 0.254 | 0.294 | 5.25E-17 | 0 | 0.863946 |
| Emc7 | 5.40E-21 | 0.009582795 | 0.284 | 0.326 | 5.37E-17 | 0 | 0.871166 |
| Pecam1 | 5.42E-21 | 0.143037333 | 0.385 | 0.346 | 5.39E-17 | 0 | 1.112717 |
| Ndfip2 | 5.69E-21 | 0.040401947 | 0.252 | 0.272 | 5.65E-17 | 0 | 0.926471 |
| Ddost | 5.78E-21 | 0.025984775 | 0.339 | 0.369 | 5.75E-17 | 0 | 0.918699 |
| Fam101b | 5.80E-21 | 0.193216746 | 0.445 | 0.362 | 5.76E-17 | 0 | 1.229282 |
| Arl6ip4 | 5.96E-21 | 0.028499653 | 0.255 | 0.28 | 5.92E-17 | 0 | 0.910714 |
| Srp19 | 5.98E-21 | 0.045017943 | 0.376 | 0.398 | 5.94E-17 | 0 | 0.944724 |
| Mettl23 | 6.00E-21 | 0.007970107 | 0.297 | 0.347 | 5.97E-17 | 0 | 0.855908 |
| Mrps24 | 6.60E-21 | 0.051802071 | 0.547 | 0.572 | 6.56E-17 | 0 | 0.956294 |
| Rasgrp2 | 7.22E-21 | 0.170175552 | 0.608 | 0.564 | 7.17E-17 | 0 | 1.078014 |
| Add3 | 7.39E-21 | 0.133542387 | 0.595 | 0.567 | 7.35E-17 | 0 | 1.049383 |
| Vps4b | 7.56E-21 | 0.008702029 | 0.281 | 0.325 | 7.51E-17 | 0 | 0.864615 |
| Wac | 7.59E-21 | 0.027446587 | 0.243 | 0.272 | 7.54E-17 | 0 | 0.893382 |
| Ptbp3 | 7.68E-21 | 0.084286922 | 0.48 | 0.492 | 7.63E-17 | 0 | 0.97561 |
| Bcap31 | 7.78E-21 | 0.029383692 | 0.434 | 0.476 | 7.73E-17 | 0 | 0.911765 |
| Mkrn1 | 7.95E-21 | 0.009901986 | 0.389 | 0.428 | 7.91E-17 | 0 | 0.908879 |
| Me2 | 8.16E-21 | 0.108118549 | 0.426 | 0.41 | 8.11E-17 | 0 | 1.039024 |
| Phf3 | 8.19E-21 | 0.028650809 | 0.375 | 0.411 | 8.14E-17 | 0 | 0.912409 |
| Irf2bpl | 9.35E-21 | 0.058527816 | 0.319 | 0.339 | 9.29E-17 | 0 | 0.941003 |
| Pfdn6 | 9.68E-21 | 0.042018469 | 0.325 | 0.344 | 9.63E-17 | 0 | 0.944767 |
| Upf2 | 1.09E-20 | 0.007085731 | 0.248 | 0.294 | 1.09E-16 | 0 | 0.843537 |
| Tgoln1 | 1.11E-20 | 0.027119262 | 0.3 | 0.33 | 1.11E-16 | 0 | 0.909091 |
| Cdk11b | 1.13E-20 | 0.009762368 | 0.367 | 0.422 | 1.12E-16 | 0 | 0.869668 |
| Utp11l | 1.18E-20 | 0.004204656 | 0.281 | 0.327 | 1.17E-16 | 0 | 0.859327 |
| Spn | 1.22E-20 | 0.046954071 | 0.408 | 0.448 | 1.21E-16 | 0 | 0.910714 |
| Ctse | 1.24E-20 | 0.111326159 | 0.42 | 0.398 | 1.23E-16 | 0 | 1.055276 |
| Mar-02 | 1.25E-20 | 0.036622061 | 0.384 | 0.418 | 1.24E-16 | 0 | 0.91866 |
| Cst3 | 1.26E-20 | 0.00140968 | 0.437 | 0.489 | 1.26E-16 | 0 | 0.893661 |
| Ttc1 | 1.32E-20 | 0.004631817 | 0.212 | 0.251 | 1.31E-16 | 0 | 0.844622 |
| Nsd1 | 1.37E-20 | 0.019118744 | 0.291 | 0.332 | 1.36E-16 | 0 | 0.876506 |
| Pfdn1 | 1.41E-20 | 0.027942905 | 0.295 | 0.324 | 1.40E-16 | 0 | 0.910494 |
| Zrsr2 | 1.45E-20 | 0.0110866 | 0.238 | 0.276 | 1.44E-16 | 0 | 0.862319 |
| Actn1 | 1.46E-20 | 0.153318915 | 0.533 | 0.486 | 1.45E-16 | 0 | 1.096708 |
| Hdgf | 1.49E-20 | 0.021868313 | 0.358 | 0.402 | 1.48E-16 | 0 | 0.890547 |
| Vgll4 | 1.50E-20 | 0.005201149 | 0.355 | 0.408 | 1.49E-16 | 0 | 0.870098 |
| Hnrnp2 | 1.56E-20 | 0.02717208 | 0.24 | 0.268 | 1.55E-16 | 0 | 0.895522 |
| Dtymk | 1.59E-20 | 0.016163754 | 0.264 | 0.293 | 1.58E-16 | 0 | 0.901024 |
| Ubl4a | 1.68E-20 | 0.000716621 | 0.222 | 0.267 | 1.67E-16 | 0 | 0.831461 |
| Aip | 1.72E-20 | 0.044034984 | 0.341 | 0.366 | 1.71E-16 | 0 | 0.931694 |
| Ndufb2 | 1.79E-20 | 0.026271022 | 0.429 | 0.473 | 1.78E-16 | 0 | 0.906977 |
| Fam69a | 1.80E-20 | 0.06293685 | 0.268 | 0.274 | 1.79E-16 | 0 | 0.978102 |
| Ict1 | 1.95E-20 | 0.042816967 | 0.445 | 0.481 | 1.93E-16 | 0 | 0.925156 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|-----------|----------|-------------|-------|-------|-----------|---------|-----------|
| Ngfrap1 | 2.02E-20 | 0.079581077 | 0.26 | 0.251 | 2.01E-16 | 0 | 1.035857 |
| Slc44a2 | 2.02E-20 | 0.025548075 | 0.24 | 0.267 | 2.01E-16 | 0 | 0.898876 |
| Sat1 | 2.14E-20 | 0.055950978 | 0.472 | 0.506 | 2.13E-16 | 0 | 0.932806 |
| Ccng1 | 2.16E-20 | 0.045858184 | 0.278 | 0.291 | 2.14E-16 | 0 | 0.955326 |
| Imp3 | 2.27E-20 | 0.024039104 | 0.437 | 0.486 | 2.26E-16 | 0 | 0.899177 |
| Prkd2 | 2.29E-20 | 0.022937046 | 0.261 | 0.281 | 2.28E-16 | 0 | 0.928826 |
| Il21r | 2.51E-20 | 0.056673165 | 0.329 | 0.351 | 2.49E-16 | 0 | 0.937322 |
| Tmem208 | 2.70E-20 | 0.002350298 | 0.309 | 0.359 | 2.69E-16 | 0 | 0.860724 |
| Eif5 | 2.71E-20 | 0.094078691 | 0.758 | 0.778 | 2.70E-16 | 0 | 0.974293 |
| Gpatch8 | 2.74E-20 | 0.003000532 | 0.239 | 0.271 | 2.72E-16 | 0 | 0.881919 |
| Slc50a1 | 2.82E-20 | 0.010555938 | 0.404 | 0.456 | 2.80E-16 | 0 | 0.885965 |
| Casp8 | 2.82E-20 | 0.050867495 | 0.407 | 0.438 | 2.80E-16 | 0 | 0.929224 |
| Prpf31 | 3.01E-20 | 0.001645846 | 0.218 | 0.259 | 2.99E-16 | 0 | 0.841699 |
| Rftn1 | 3.08E-20 | 0.042726926 | 0.272 | 0.278 | 3.06E-16 | 0 | 0.978417 |
| Ctso | 3.13E-20 | 0.032879818 | 0.242 | 0.26 | 3.11E-16 | 0 | 0.930769 |
| Nans | 3.19E-20 | 0.038535882 | 0.316 | 0.337 | 3.17E-16 | 0 | 0.937685 |
| Nrbp1 | 3.27E-20 | 0.036504852 | 0.246 | 0.261 | 3.25E-16 | 0 | 0.942529 |
| Uqcrc1 | 3.40E-20 | 0.020337959 | 0.461 | 0.509 | 3.38E-16 | 0 | 0.905697 |
| Ptges3 | 3.46E-20 | 0.043485698 | 0.363 | 0.371 | 3.44E-16 | 0 | 0.978437 |
| Zfand5 | 3.55E-20 | 0.004198976 | 0.234 | 0.275 | 3.52E-16 | 0 | 0.850909 |
| Ergic3 | 3.70E-20 | 0.031799011 | 0.24 | 0.258 | 3.68E-16 | 0 | 0.930233 |
| Zcchc9 | 3.85E-20 | 0.014672234 | 0.238 | 0.269 | 3.83E-16 | 0 | 0.884758 |
| Rnf10 | 4.12E-20 | 0.022596846 | 0.306 | 0.344 | 4.09E-16 | 0 | 0.889535 |
| Spr | 4.14E-20 | 0.04274538 | 0.252 | 0.263 | 4.11E-16 | 0 | 0.958175 |
| Add1 | 4.18E-20 | 0.029031162 | 0.252 | 0.282 | 4.15E-16 | 0 | 0.893617 |
| Tprgl | 4.19E-20 | 0.027866923 | 0.487 | 0.533 | 4.17E-16 | 0 | 0.913696 |
| Dnajc5 | 4.20E-20 | 0.030713408 | 0.309 | 0.336 | 4.17E-16 | 0 | 0.919643 |
| Pcm1 | 4.31E-20 | 0.005382311 | 0.225 | 0.268 | 4.28E-16 | 0 | 0.839552 |
| Zfp622 | 4.41E-20 | 0.013443392 | 0.287 | 0.324 | 4.38E-16 | 0 | 0.885802 |
| Atp6v0e | 4.51E-20 | 0.082183481 | 0.77 | 0.782 | 4.48E-16 | 0 | 0.984655 |
| Dnajc7 | 4.61E-20 | 0.010118567 | 0.404 | 0.459 | 4.59E-16 | 0 | 0.880174 |
| Ptpn2 | 4.74E-20 | 0.036925544 | 0.254 | 0.271 | 4.71E-16 | 0 | 0.937269 |
| Ppp4r2 | 5.00E-20 | 0.003035391 | 0.212 | 0.254 | 4.97E-16 | 0 | 0.834646 |
| Tspan13 | 5.13E-20 | 0.100750891 | 0.494 | 0.49 | 5.10E-16 | 0 | 1.008163 |
| Pym1 | 5.16E-20 | 0.072104978 | 0.395 | 0.409 | 5.12E-16 | 0 | 0.96577 |
| Mrps18c | 5.17E-20 | 0.027242893 | 0.356 | 0.383 | 5.14E-16 | 0 | 0.929504 |
| Polr2g | 5.23E-20 | 0.000792435 | 0.479 | 0.536 | 5.20E-16 | 0 | 0.893657 |
| Ralgps2 | 5.33E-20 | 0.000447152 | 0.235 | 0.261 | 5.30E-16 | 0 | 0.900383 |
| Pdia6 | 5.84E-20 | 0.004530393 | 0.345 | 0.393 | 5.81E-16 | 0 | 0.877863 |
| Nudt21 | 5.90E-20 | 0.026297929 | 0.437 | 0.482 | 5.87E-16 | 0 | 0.906639 |
| Fam133b | 6.97E-20 | 0.008250114 | 0.285 | 0.331 | 6.93E-16 | 0 | 0.861027 |
| Ctsc | 7.05E-20 | 0.004625835 | 0.22 | 0.255 | 7.01E-16 | 0 | 0.862745 |
| Nipsnap3b | 7.16E-20 | 0.007449322 | 0.23 | 0.257 | 7.11E-16 | 0 | 0.894942 |
| Pop5 | 7.31E-20 | 0.048528797 | 0.426 | 0.448 | 7.27E-16 | 0 | 0.950893 |
| Sec11a | 7.65E-20 | 0.113198782 | 0.721 | 0.718 | 7.61E-16 | 0 | 1.004178 |
| Clptm1l | 7.68E-20 | 0.019371831 | 0.233 | 0.261 | 7.63E-16 | 0 | 0.89272 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|----------|----------|-------------|-------|-------|-----------|---------|-----------|
| Mrps23 | 7.86E-20 | 0.017084276 | 0.248 | 0.28 | 7.82E-16 | 0 | 0.885714 |
| Vav1 | 8.12E-20 | 0.032702212 | 0.255 | 0.282 | 8.08E-16 | 0 | 0.904255 |
| Nisch | 8.67E-20 | 0.043227281 | 0.426 | 0.457 | 8.62E-16 | 0 | 0.932166 |
| Rps3a1 | 8.73E-20 | 0.014685015 | 1 | 1 | 8.67E-16 | 0 | 1 |
| Tomm22 | 8.82E-20 | 0.022332611 | 0.493 | 0.54 | 8.77E-16 | 0 | 0.912963 |
| Toporsos | 8.93E-20 | 0.076942738 | 0.306 | 0.312 | 8.88E-16 | 0 | 0.980769 |
| Chrac1 | 8.99E-20 | 0.017026313 | 0.391 | 0.428 | 8.93E-16 | 0 | 0.913551 |
| Zcrb1 | 9.07E-20 | 0.036487587 | 0.324 | 0.355 | 9.02E-16 | 0 | 0.912676 |
| Smim4 | 9.17E-20 | 0.054083653 | 0.357 | 0.369 | 9.11E-16 | 0 | 0.96748 |
| Cflar | 9.37E-20 | 0.054930695 | 0.283 | 0.296 | 9.32E-16 | 0 | 0.956081 |
| Tmem9b | 9.55E-20 | 0.065907624 | 0.444 | 0.461 | 9.49E-16 | 0 | 0.963124 |
| Rtcb | 9.61E-20 | 0.011033247 | 0.378 | 0.428 | 9.55E-16 | 0 | 0.883178 |
| Mat2b | 9.64E-20 | 0.02802909 | 0.508 | 0.547 | 9.58E-16 | 0 | 0.928702 |
| Polr2m | 9.86E-20 | 0.014125646 | 0.418 | 0.456 | 9.80E-16 | 0 | 0.916667 |
| Fam105a | 9.96E-20 | 0.015246538 | 0.405 | 0.453 | 9.90E-16 | 0 | 0.89404 |
| Cirbp | 1.05E-19 | 0.100406061 | 0.646 | 0.658 | 1.05E-15 | 0 | 0.981763 |
| BC031181 | 1.06E-19 | 0.059876645 | 0.439 | 0.456 | 1.05E-15 | 0 | 0.962719 |
| Manf | 1.06E-19 | 0.05672067 | 0.527 | 0.556 | 1.06E-15 | 0 | 0.947842 |
| Zap70 | 1.07E-19 | 0.006019474 | 0.341 | 0.388 | 1.06E-15 | 0 | 0.878866 |
| Herpud1 | 1.10E-19 | 0.033151004 | 0.247 | 0.269 | 1.09E-15 | 0 | 0.918216 |
| Rsu1 | 1.12E-19 | 0.093963873 | 0.318 | 0.311 | 1.11E-15 | 0 | 1.022508 |
| Stag1 | 1.18E-19 | 0.058187477 | 0.265 | 0.278 | 1.18E-15 | 0 | 0.953237 |
| Rnf187 | 1.18E-19 | 0.033499407 | 0.455 | 0.495 | 1.18E-15 | 0 | 0.919192 |
| Tceb1 | 1.19E-19 | 0.023003118 | 0.459 | 0.508 | 1.18E-15 | 0 | 0.903543 |
| Dynlrb1 | 1.21E-19 | 0.011819964 | 0.415 | 0.467 | 1.20E-15 | 0 | 0.888651 |
| Fam104a | 1.21E-19 | 0.000810276 | 0.395 | 0.452 | 1.21E-15 | 0 | 0.873894 |
| Emc10 | 1.30E-19 | 0.051277833 | 0.456 | 0.488 | 1.30E-15 | 0 | 0.934426 |
| U2af2 | 1.33E-19 | 0.014037092 | 0.302 | 0.345 | 1.32E-15 | 0 | 0.875362 |
| Zcchc17 | 1.34E-19 | 0.015408998 | 0.278 | 0.317 | 1.33E-15 | 0 | 0.876972 |
| Csde1 | 1.36E-19 | 0.037700815 | 0.429 | 0.462 | 1.36E-15 | 0 | 0.928571 |
| Emd | 1.38E-19 | 0.015219046 | 0.262 | 0.295 | 1.37E-15 | 0 | 0.888136 |
| Brd7 | 1.44E-19 | 0.021223812 | 0.288 | 0.321 | 1.43E-15 | 0 | 0.897196 |
| Hsbp1 | 1.55E-19 | 0.104195908 | 0.475 | 0.458 | 1.54E-15 | 0 | 1.037118 |
| Pmm2 | 1.56E-19 | 0.025185814 | 0.229 | 0.253 | 1.55E-15 | 0 | 0.905138 |
| Cmpk1 | 1.61E-19 | 0.043502662 | 0.321 | 0.342 | 1.60E-15 | 0 | 0.938596 |
| Mtch2 | 1.67E-19 | 0.036685387 | 0.293 | 0.318 | 1.66E-15 | 0 | 0.921384 |
| Twf2 | 1.75E-19 | 0.024847332 | 0.386 | 0.422 | 1.74E-15 | 0 | 0.914692 |
| Dnajc2 | 1.77E-19 | 0.02421995 | 0.35 | 0.392 | 1.76E-15 | 0 | 0.892857 |
| Mia3 | 1.85E-19 | 0.032920259 | 0.232 | 0.256 | 1.84E-15 | 0 | 0.90625 |
| Dnm2 | 1.90E-19 | 0.005769736 | 0.275 | 0.317 | 1.89E-15 | 0 | 0.867508 |
| Cript | 1.94E-19 | 0.004408613 | 0.337 | 0.38 | 1.93E-15 | 0 | 0.886842 |
| Smarca2 | 1.96E-19 | 0.025427484 | 0.236 | 0.263 | 1.95E-15 | 0 | 0.897338 |
| Med21 | 1.99E-19 | 0.043288358 | 0.292 | 0.306 | 1.98E-15 | 0 | 0.954248 |
| Mrpl20 | 2.02E-19 | 0.013386024 | 0.372 | 0.414 | 2.00E-15 | 0 | 0.898551 |
| Smim19 | 2.02E-19 | 0.022275692 | 0.255 | 0.273 | 2.01E-15 | 0 | 0.934066 |
| Sp3 | 2.03E-19 | 0.053293395 | 0.311 | 0.325 | 2.02E-15 | 0 | 0.956923 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Hadhb | 2.08E-19 | 0.069084573 | 0.355 | 0.364 | 2.07E-15 | 0 | 0.975275 |
| Rnaseh2c | 2.09E-19 | 0.049364523 | 0.304 | 0.321 | 2.08E-15 | 0 | 0.94704 |
| Naa15 | 2.18E-19 | 0.015661395 | 0.248 | 0.277 | 2.17E-15 | 0 | 0.895307 |
| Sys1 | 2.22E-19 | 0.010073146 | 0.384 | 0.439 | 2.21E-15 | 0 | 0.874715 |
| Rplp1 | 2.24E-19 | 0.027507609 | 1 | 1 | 2.23E-15 | 0 | 1 |
| Rnps1 | 2.25E-19 | 0.002319162 | 0.301 | 0.345 | 2.24E-15 | 0 | 0.872464 |
| Rer1 | 2.26E-19 | 0.026558265 | 0.458 | 0.506 | 2.24E-15 | 0 | 0.905138 |
| Eed | 2.41E-19 | 0.001640559 | 0.212 | 0.253 | 2.39E-15 | 0 | 0.837945 |
| 07-Mar | 2.42E-19 | 0.048057653 | 0.302 | 0.32 | 2.41E-15 | 0 | 0.94375 |
| Gtf2h5 | 2.59E-19 | 0.005810719 | 0.355 | 0.406 | 2.57E-15 | 0 | 0.874384 |
| Cops6 | 2.68E-19 | 0.037077058 | 0.448 | 0.478 | 2.67E-15 | 0 | 0.937238 |
| Ankrd44 | 2.71E-19 | 0.036190493 | 0.439 | 0.469 | 2.69E-15 | 0 | 0.936034 |
| Anapc13 | 2.86E-19 | 0.026425527 | 0.337 | 0.378 | 2.85E-15 | 0 | 0.891534 |
| Ccdc107 | 2.92E-19 | 0.008974304 | 0.239 | 0.273 | 2.90E-15 | 0 | 0.875458 |
| Mrpl17 | 3.04E-19 | 0.025846588 | 0.262 | 0.29 | 3.03E-15 | 0 | 0.903448 |
| Fam53b | 3.31E-19 | 0.000765378 | 0.366 | 0.411 | 3.29E-15 | 0 | 0.890511 |
| Acap1 | 3.38E-19 | 0.02537605 | 0.388 | 0.424 | 3.36E-15 | 0 | 0.915094 |
| Tcp1 | 3.62E-19 | 0.005928424 | 0.433 | 0.491 | 3.60E-15 | 0 | 0.881874 |
| Mgat2 | 3.70E-19 | 0.020595406 | 0.343 | 0.376 | 3.68E-15 | 0 | 0.912234 |
| Stra13 | 3.71E-19 | 0.046512879 | 0.422 | 0.443 | 3.69E-15 | 0 | 0.952596 |
| Itsn2 | 3.85E-19 | 0.058853807 | 0.319 | 0.334 | 3.83E-15 | 0 | 0.95509 |
| Kmt2c | 3.88E-19 | 0.007777723 | 0.233 | 0.271 | 3.86E-15 | 0 | 0.859779 |
| 0610010K14Rik | 4.06E-19 | 0.008174788 | 0.253 | 0.295 | 4.04E-15 | 0 | 0.857627 |
| 1110004F10Rik | 4.07E-19 | 0.026065384 | 0.456 | 0.502 | 4.04E-15 | 0 | 0.908367 |
| Ccnd3 | 4.22E-19 | 0.118310948 | 0.563 | 0.551 | 4.19E-15 | 0 | 1.021779 |
| Atxn7l3b | 4.24E-19 | 0.059870145 | 0.45 | 0.475 | 4.22E-15 | 0 | 0.947368 |
| Gimap1 | 4.34E-19 | 0.129069981 | 0.837 | 0.84 | 4.32E-15 | 0 | 0.996429 |
| Ctnnbl1 | 4.39E-19 | 0.008051707 | 0.23 | 0.268 | 4.36E-15 | 0 | 0.858209 |
| Rps21 | 4.46E-19 | 0.076608592 | 1 | 1 | 4.43E-15 | 0 | 1 |
| Cd6 | 4.86E-19 | 0.076814267 | 0.427 | 0.443 | 4.83E-15 | 0 | 0.963883 |
| BC005624 | 5.03E-19 | 0.002166583 | 0.297 | 0.338 | 5.00E-15 | 0 | 0.878698 |
| Ech1 | 5.08E-19 | 0.054435475 | 0.317 | 0.332 | 5.05E-15 | 0 | 0.954819 |
| Uqcrb | 5.22E-19 | 0.003860183 | 0.598 | 0.666 | 5.19E-15 | 0 | 0.897898 |
| Mapre1 | 5.28E-19 | 0.019788589 | 0.455 | 0.504 | 5.25E-15 | 0 | 0.902778 |
| Mlf2 | 5.34E-19 | 0.016193812 | 0.28 | 0.306 | 5.31E-15 | 0 | 0.915033 |
| Mrps34 | 5.47E-19 | 0.004107848 | 0.324 | 0.372 | 5.44E-15 | 0 | 0.870968 |
| Vti1b | 5.49E-19 | 0.027602207 | 0.293 | 0.321 | 5.46E-15 | 0 | 0.912773 |
| Mrps15 | 5.87E-19 | 0.017972136 | 0.272 | 0.306 | 5.83E-15 | 0 | 0.888889 |
| Myo1g | 6.26E-19 | 0.032076095 | 0.256 | 0.276 | 6.22E-15 | 0 | 0.927536 |
| Fam65b | 6.32E-19 | 0.097191549 | 0.52 | 0.516 | 6.29E-15 | 0 | 1.007752 |
| Baz2a | 6.51E-19 | 0.051321946 | 0.25 | 0.254 | 6.47E-15 | 0 | 0.984252 |
| Foxo1 | 6.75E-19 | 0.086676007 | 0.401 | 0.389 | 6.71E-15 | 0 | 1.030848 |
| Rassf5 | 6.80E-19 | 0.013262685 | 0.45 | 0.504 | 6.75E-15 | 0 | 0.892857 |
| Pfdn2 | 6.86E-19 | 0.010581213 | 0.555 | 0.614 | 6.82E-15 | 0 | 0.903909 |
| Guk1 | 7.00E-19 | 0.004526876 | 0.319 | 0.356 | 6.96E-15 | 0 | 0.896067 |
| Sfr1 | 7.18E-19 | 0.001189192 | 0.429 | 0.496 | 7.14E-15 | 0 | 0.864919 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Xlr4b | 7.29E-19 | 0.014926869 | 0.289 | 0.319 | 7.25E-15 | 0 | 0.905956 |
| Dars | 7.30E-19 | 0.008761781 | 0.283 | 0.317 | 7.26E-15 | 0 | 0.892744 |
| Atp6v1e1 | 7.94E-19 | 0.002718276 | 0.288 | 0.332 | 7.89E-15 | 0 | 0.86747 |
| Cetn3 | 7.96E-19 | 0.019361093 | 0.397 | 0.437 | 7.92E-15 | 0 | 0.908467 |
| Rasa3 | 8.01E-19 | 0.051163584 | 0.309 | 0.324 | 7.97E-15 | 0 | 0.953704 |
| Ccm2 | 8.17E-19 | 0.054450341 | 0.411 | 0.422 | 8.12E-15 | 0 | 0.973934 |
| Puf60 | 8.19E-19 | 0.043453494 | 0.414 | 0.441 | 8.14E-15 | 0 | 0.938776 |
| Senp6 | 8.23E-19 | 0.000908981 | 0.27 | 0.32 | 8.18E-15 | 0 | 0.84375 |
| Tbl1x | 8.30E-19 | 0.030457622 | 0.257 | 0.276 | 8.25E-15 | 0 | 0.931159 |
| Stag2 | 8.36E-19 | 0.009711572 | 0.322 | 0.368 | 8.31E-15 | 0 | 0.875 |
| Erp29 | 8.93E-19 | 0.019723496 | 0.314 | 0.343 | 8.88E-15 | 0 | 0.915452 |
| 2310036O22Rik | 9.31E-19 | 0.016981973 | 0.591 | 0.653 | 9.26E-15 | 0 | 0.905054 |
| Mark2 | 9.43E-19 | 0.014748424 | 0.306 | 0.348 | 9.37E-15 | 0 | 0.87931 |
| Esf1 | 9.51E-19 | 0.03210426 | 0.311 | 0.344 | 9.45E-15 | 0 | 0.90407 |
| Safb2 | 9.75E-19 | 0.009476981 | 0.263 | 0.306 | 9.69E-15 | 0 | 0.859477 |
| Clk1 | 9.78E-19 | 0.004005131 | 0.429 | 0.484 | 9.72E-15 | 0 | 0.886364 |
| Nr1h2 | 9.95E-19 | 0.00345291 | 0.221 | 0.256 | 9.89E-15 | 0 | 0.863281 |
| Pdia4 | 1.00E-18 | 0.049668353 | 0.293 | 0.301 | 9.98E-15 | 0 | 0.973422 |
| Satb1 | 1.02E-18 | 0.115126496 | 0.741 | 0.741 | 1.01E-14 | 0 | 1 |
| Coa3 | 1.04E-18 | 0.007455025 | 0.385 | 0.424 | 1.03E-14 | 0 | 0.908019 |
| Nudcd2 | 1.05E-18 | 0.001187402 | 0.241 | 0.278 | 1.04E-14 | 0 | 0.866906 |
| Ndufa8 | 1.07E-18 | 0.004987902 | 0.512 | 0.575 | 1.06E-14 | 0 | 0.890435 |
| Immt | 1.13E-18 | 0.004156126 | 0.258 | 0.297 | 1.12E-14 | 0 | 0.868687 |
| Prkag1 | 1.15E-18 | 0.044483665 | 0.288 | 0.292 | 1.15E-14 | 0 | 0.986301 |
| Leprotl1 | 1.18E-18 | 0.052977355 | 0.585 | 0.622 | 1.18E-14 | 0 | 0.940514 |
| Adh5 | 1.24E-18 | 0.027758519 | 0.383 | 0.418 | 1.23E-14 | 0 | 0.916268 |
| Lamp1 | 1.26E-18 | 0.022600382 | 0.448 | 0.488 | 1.25E-14 | 0 | 0.918033 |
| Jakmip1 | 1.27E-18 | 0.057637509 | 0.302 | 0.309 | 1.26E-14 | 0 | 0.977346 |
| Dynlt1c | 1.29E-18 | 0.024453501 | 0.236 | 0.266 | 1.28E-14 | 0 | 0.887218 |
| Numa1 | 1.33E-18 | 0.026118325 | 0.236 | 0.261 | 1.32E-14 | 0 | 0.904215 |
| Eef1e1 | 1.43E-18 | 0.013373766 | 0.241 | 0.265 | 1.42E-14 | 0 | 0.909434 |
| Baz1b | 1.51E-18 | 0.014003218 | 0.27 | 0.3 | 1.50E-14 | 0 | 0.9 |
| Mrpl24 | 1.56E-18 | 0.001750935 | 0.401 | 0.461 | 1.55E-14 | 0 | 0.869848 |
| Commd6 | 1.58E-18 | 0.014629787 | 0.295 | 0.335 | 1.57E-14 | 0 | 0.880597 |
| 2510002D24Rik | 1.62E-18 | 0.021406903 | 0.291 | 0.322 | 1.61E-14 | 0 | 0.903727 |
| Rnf7 | 1.77E-18 | 0.008005044 | 0.416 | 0.464 | 1.76E-14 | 0 | 0.896552 |
| Psmg4 | 1.86E-18 | 0.033788842 | 0.359 | 0.388 | 1.85E-14 | 0 | 0.925258 |
| Lsm3 | 1.86E-18 | 0.007690516 | 0.373 | 0.411 | 1.85E-14 | 0 | 0.907543 |
| Ssrp1 | 1.86E-18 | 0.021078519 | 0.419 | 0.453 | 1.85E-14 | 0 | 0.924945 |
| Hspa14 | 1.87E-18 | 0.003314359 | 0.248 | 0.278 | 1.86E-14 | 0 | 0.892086 |
| Man1a2 | 1.87E-18 | 0.013289873 | 0.302 | 0.333 | 1.86E-14 | 0 | 0.906907 |
| Thoc7 | 1.90E-18 | 0.003216855 | 0.349 | 0.398 | 1.88E-14 | 0 | 0.876884 |
| Churc1 | 1.95E-18 | 0.102845739 | 0.62 | 0.613 | 1.94E-14 | 0 | 1.011419 |
| Brd4 | 1.96E-18 | 0.001074339 | 0.235 | 0.274 | 1.95E-14 | 0 | 0.857664 |
| Bloc1s1 | 1.99E-18 | 0.026830771 | 0.233 | 0.258 | 1.97E-14 | 0 | 0.903101 |
| Psmd11 | 2.09E-18 | 0.025202251 | 0.43 | 0.476 | 2.08E-14 | 0 | 0.903361 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------|----------|-------------|-------|-------|-----------|---------|-----------|
| Nsrp1 | 2.11E-18 | 0.027144713 | 0.25 | 0.286 | 2.09E-14 | 0 | 0.874126 |
| Dhx36 | 2.12E-18 | 0.001308914 | 0.22 | 0.259 | 2.11E-14 | 0 | 0.849421 |
| Rpl7l1 | 2.19E-18 | 0.012677146 | 0.302 | 0.334 | 2.17E-14 | 0 | 0.904192 |
| Emc6 | 2.29E-18 | 0.004700508 | 0.422 | 0.466 | 2.28E-14 | 0 | 0.905579 |
| Krit1 | 2.33E-18 | 0.043573413 | 0.491 | 0.532 | 2.31E-14 | 0 | 0.922932 |
| Vps37b | 2.41E-18 | 0.037112362 | 0.278 | 0.292 | 2.39E-14 | 0 | 0.952055 |
| M6pr | 2.45E-18 | 0.008087422 | 0.336 | 0.374 | 2.44E-14 | 0 | 0.898396 |
| Mrpl28 | 2.57E-18 | 0.018787196 | 0.285 | 0.316 | 2.55E-14 | 0 | 0.901899 |
| Scg5 | 2.66E-18 | 0.138728943 | 0.397 | 0.349 | 2.64E-14 | 0 | 1.137536 |
| Psm2 | 2.67E-18 | 0.00985234 | 0.334 | 0.373 | 2.65E-14 | 0 | 0.895442 |
| Nap114 | 2.72E-18 | 0.039879615 | 0.495 | 0.536 | 2.70E-14 | 0 | 0.923507 |
| Sep-09 | 2.76E-18 | 0.096804378 | 0.426 | 0.421 | 2.74E-14 | 0 | 1.011876 |
| Luc7l3 | 2.85E-18 | 0.01341448 | 0.39 | 0.443 | 2.83E-14 | 0 | 0.880361 |
| Chchd1 | 2.99E-18 | 0.034301198 | 0.409 | 0.444 | 2.97E-14 | 0 | 0.921171 |
| Drap1 | 3.20E-18 | 0.011013723 | 0.372 | 0.417 | 3.18E-14 | 0 | 0.892086 |
| Mllt3 | 3.24E-18 | 0.076864254 | 0.283 | 0.281 | 3.22E-14 | 0 | 1.007117 |
| Timm10b | 3.42E-18 | 0.007842594 | 0.476 | 0.535 | 3.40E-14 | 0 | 0.88972 |
| Acaa2 | 3.48E-18 | 0.036195074 | 0.374 | 0.405 | 3.46E-14 | 0 | 0.923457 |
| Yeats4 | 3.58E-18 | 0.030016264 | 0.322 | 0.353 | 3.55E-14 | 0 | 0.912181 |
| Psm4 | 3.63E-18 | 0.040508572 | 0.58 | 0.62 | 3.60E-14 | 0 | 0.935484 |
| Myl6 | 3.68E-18 | 0.122480288 | 0.993 | 0.991 | 3.66E-14 | 0 | 1.002018 |
| Psm7 | 3.72E-18 | 0.025430591 | 0.339 | 0.372 | 3.70E-14 | 0 | 0.91129 |
| Rbmxl1 | 3.74E-18 | 0.008340508 | 0.279 | 0.315 | 3.72E-14 | 0 | 0.885714 |
| Tes | 3.91E-18 | 0.086816088 | 0.323 | 0.309 | 3.88E-14 | 0 | 1.045307 |
| Mkln1 | 4.06E-18 | 0.019606072 | 0.235 | 0.264 | 4.03E-14 | 0 | 0.890152 |
| Tnrc6b | 4.07E-18 | 0.028205599 | 0.338 | 0.373 | 4.05E-14 | 0 | 0.906166 |
| mt-Nd4l | 4.15E-18 | 0.010475804 | 0.243 | 0.27 | 4.13E-14 | 0 | 0.9 |
| Dap3 | 4.34E-18 | 0.050720896 | 0.267 | 0.278 | 4.32E-14 | 0 | 0.960432 |
| Nmt1 | 4.43E-18 | 0.019517005 | 0.267 | 0.298 | 4.40E-14 | 0 | 0.895973 |
| Rheb | 4.53E-18 | 0.014190101 | 0.403 | 0.436 | 4.50E-14 | 0 | 0.924312 |
| Crip1 | 4.56E-18 | 0.15154093 | 0.576 | 0.556 | 4.53E-14 | 0 | 1.035971 |
| Srsf10 | 4.61E-18 | 0.024025902 | 0.346 | 0.384 | 4.58E-14 | 0 | 0.901042 |
| Caprin1 | 4.64E-18 | 0.03737718 | 0.332 | 0.359 | 4.62E-14 | 0 | 0.924791 |
| Polr2k | 4.74E-18 | 0.005453698 | 0.358 | 0.405 | 4.71E-14 | 0 | 0.883951 |
| Dda1 | 4.75E-18 | 0.012190958 | 0.25 | 0.284 | 4.73E-14 | 0 | 0.880282 |
| Rab11b | 4.78E-18 | 0.024773201 | 0.435 | 0.469 | 4.75E-14 | 0 | 0.927505 |
| Uqcc3 | 4.92E-18 | 0.05707786 | 0.564 | 0.595 | 4.89E-14 | 0 | 0.947899 |
| Wbp4 | 4.94E-18 | 0.01874363 | 0.275 | 0.314 | 4.91E-14 | 0 | 0.875796 |
| Mcmbp | 5.03E-18 | 0.021394531 | 0.255 | 0.284 | 5.00E-14 | 0 | 0.897887 |
| Galnt6 | 5.26E-18 | 0.052928034 | 0.262 | 0.277 | 5.23E-14 | 0 | 0.945848 |
| Gm6483 | 5.29E-18 | 0.009463809 | 0.243 | 0.282 | 5.26E-14 | 0 | 0.861702 |
| Ilkap | 5.30E-18 | 0.015804487 | 0.242 | 0.268 | 5.27E-14 | 0 | 0.902985 |
| Ywhah | 5.45E-18 | 0.058145706 | 0.469 | 0.488 | 5.42E-14 | 0 | 0.961066 |
| Tmod3 | 5.56E-18 | 0.035696652 | 0.29 | 0.308 | 5.53E-14 | 0 | 0.941558 |
| Osbp19 | 5.65E-18 | 0.073089588 | 0.287 | 0.285 | 5.62E-14 | 0 | 1.007018 |
| Ndufs4 | 5.78E-18 | 0.028645791 | 0.477 | 0.516 | 5.74E-14 | 0 | 0.924419 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Usp3 | 6.25E-18 | 0.020300781 | 0.308 | 0.34 | 6.21E-14 | 0 | 0.905882 |
| Ndufs3 | 6.89E-18 | 0.020744246 | 0.422 | 0.467 | 6.85E-14 | 0 | 0.90364 |
| Hint2 | 6.99E-18 | 0.010275103 | 0.226 | 0.262 | 6.95E-14 | 0 | 0.862595 |
| Ndufb8 | 7.14E-18 | 0.004072551 | 0.524 | 0.576 | 7.10E-14 | 0 | 0.909722 |
| Hypk | 7.50E-18 | 0.066609211 | 0.514 | 0.535 | 7.46E-14 | 0 | 0.960748 |
| Cdk12 | 7.61E-18 | 0.001360501 | 0.386 | 0.442 | 7.56E-14 | 0 | 0.873303 |
| Vimp | 7.76E-18 | 0.054137791 | 0.387 | 0.406 | 7.71E-14 | 0 | 0.953202 |
| Taok3 | 7.82E-18 | 0.029425509 | 0.266 | 0.29 | 7.77E-14 | 0 | 0.917241 |
| Cox20 | 8.03E-18 | 0.062480635 | 0.369 | 0.383 | 7.98E-14 | 0 | 0.963446 |
| Itm2c | 8.07E-18 | 0.02681554 | 0.342 | 0.354 | 8.02E-14 | 0 | 0.966102 |
| Ctbp1 | 8.18E-18 | 0.017138036 | 0.478 | 0.512 | 8.13E-14 | 0 | 0.933594 |
| Atrx | 8.44E-18 | 0.000832511 | 0.569 | 0.639 | 8.39E-14 | 0 | 0.890454 |
| Prkcq | 8.63E-18 | 0.013557885 | 0.496 | 0.548 | 8.58E-14 | 0 | 0.905109 |
| Rasgrp1 | 8.81E-18 | 0.1087651 | 0.426 | 0.413 | 8.76E-14 | 0 | 1.031477 |
| Rab5c | 8.88E-18 | 0.013109906 | 0.372 | 0.411 | 8.83E-14 | 0 | 0.905109 |
| Banf1 | 8.90E-18 | 0.075811752 | 0.464 | 0.473 | 8.85E-14 | 0 | 0.980973 |
| Kif5b | 8.99E-18 | 0.062600942 | 0.56 | 0.586 | 8.94E-14 | 0 | 0.955631 |
| Zranb2 | 9.25E-18 | 0.009160628 | 0.316 | 0.357 | 9.20E-14 | 0 | 0.885154 |
| 4932438A13Rik | 9.59E-18 | 0.02942979 | 0.285 | 0.317 | 9.54E-14 | 0 | 0.899054 |
| Grk6 | 9.82E-18 | 0.074692559 | 0.479 | 0.495 | 9.76E-14 | 0 | 0.967677 |
| Fkbp1a | 1.00E-17 | 0.124372931 | 0.633 | 0.611 | 9.97E-14 | 0 | 1.036007 |
| Csk | 1.01E-17 | 0.013062333 | 0.457 | 0.508 | 1.00E-13 | 0 | 0.899606 |
| Ankrd10 | 1.06E-17 | 0.02849792 | 0.265 | 0.284 | 1.05E-13 | 0 | 0.933099 |
| Smim14 | 1.07E-17 | 0.036186329 | 0.476 | 0.508 | 1.07E-13 | 0 | 0.937008 |
| Ndufc1 | 1.08E-17 | 0.025505325 | 0.485 | 0.529 | 1.08E-13 | 0 | 0.916824 |
| 2700094K13Rik | 1.13E-17 | 0.047735863 | 0.389 | 0.413 | 1.12E-13 | 0 | 0.941889 |
| Dph5 | 1.13E-17 | 0.077775911 | 0.34 | 0.33 | 1.12E-13 | 0 | 1.030303 |
| Pigx | 1.16E-17 | 0.009630452 | 0.306 | 0.336 | 1.15E-13 | 0 | 0.910714 |
| Bzw1 | 1.18E-17 | 0.026157431 | 0.585 | 0.642 | 1.17E-13 | 0 | 0.911215 |
| Ndr3 | 1.21E-17 | 0.03453422 | 0.259 | 0.281 | 1.21E-13 | 0 | 0.921708 |
| Anapc16 | 1.27E-17 | 0.004973261 | 0.305 | 0.35 | 1.26E-13 | 0 | 0.871429 |
| Stk24 | 1.29E-17 | 0.001024818 | 0.363 | 0.413 | 1.28E-13 | 0 | 0.878935 |
| Pnrc2 | 1.32E-17 | 0.008265592 | 0.334 | 0.377 | 1.31E-13 | 0 | 0.885942 |
| Pik3r1 | 1.36E-17 | 0.0067679 | 0.388 | 0.429 | 1.35E-13 | 0 | 0.904429 |
| Gpcpd1 | 1.40E-17 | 0.072801239 | 0.254 | 0.249 | 1.39E-13 | 0 | 1.02008 |
| Zbtb8os | 1.49E-17 | 0.002776293 | 0.246 | 0.281 | 1.48E-13 | 0 | 0.875445 |
| Atic | 1.49E-17 | 0.018052588 | 0.275 | 0.31 | 1.48E-13 | 0 | 0.887097 |
| Gsk3b | 1.58E-17 | 0.019841269 | 0.332 | 0.369 | 1.57E-13 | 0 | 0.899729 |
| Pkm | 1.63E-17 | 0.133307798 | 0.826 | 0.784 | 1.62E-13 | 0 | 1.053571 |
| Lsm2 | 1.70E-17 | 0.008427721 | 0.315 | 0.344 | 1.69E-13 | 0 | 0.915698 |
| Ahsa1 | 1.71E-17 | 0.02281488 | 0.405 | 0.44 | 1.70E-13 | 0 | 0.920455 |
| 2610001J05Rik | 1.72E-17 | 0.043032957 | 0.266 | 0.278 | 1.71E-13 | 0 | 0.956835 |
| Srsf1 | 1.72E-17 | 0.016029996 | 0.297 | 0.33 | 1.71E-13 | 0 | 0.9 |
| Gmfg | 1.74E-17 | 0.136121771 | 0.892 | 0.878 | 1.73E-13 | 0 | 1.015945 |
| Slu7 | 1.75E-17 | 0.005034267 | 0.218 | 0.252 | 1.74E-13 | 0 | 0.865079 |
| Cope | 1.76E-17 | 0.000470215 | 0.462 | 0.515 | 1.75E-13 | 0 | 0.897087 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Stub1 | 1.87E-17 | 0.06110152 | 0.38 | 0.392 | 1.85E-13 | 0 | 0.969388 |
| Gm2a | 1.90E-17 | 0.01393265 | 0.279 | 0.296 | 1.89E-13 | 0 | 0.942568 |
| Tmco1 | 1.92E-17 | 0.003063301 | 0.275 | 0.317 | 1.91E-13 | 0 | 0.867508 |
| Gtpbp4 | 1.93E-17 | 0.000583738 | 0.351 | 0.394 | 1.91E-13 | 0 | 0.890863 |
| Gm10093 | 1.93E-17 | 0.040757341 | 0.313 | 0.33 | 1.92E-13 | 0 | 0.948485 |
| Dazap1 | 1.99E-17 | 0.022474384 | 0.349 | 0.386 | 1.98E-13 | 0 | 0.904145 |
| Smad7 | 1.99E-17 | 0.092495457 | 0.361 | 0.352 | 1.98E-13 | 0 | 1.025568 |
| Ndufa7 | 2.10E-17 | 0.039232356 | 0.697 | 0.749 | 2.09E-13 | 0 | 0.930574 |
| Atp6v1d | 2.11E-17 | 0.046171193 | 0.26 | 0.275 | 2.10E-13 | 0 | 0.945455 |
| Ttc13 | 2.12E-17 | 0.122109363 | 0.323 | 0.291 | 2.10E-13 | 0 | 1.109966 |
| Ttc14 | 2.21E-17 | 0.010229656 | 0.486 | 0.546 | 2.19E-13 | 0 | 0.89011 |
| Sap18 | 2.23E-17 | 0.048860154 | 0.523 | 0.547 | 2.22E-13 | 0 | 0.956124 |
| Psmc2 | 2.26E-17 | 0.003878156 | 0.363 | 0.404 | 2.25E-13 | 0 | 0.898515 |
| Sdha | 2.50E-17 | 0.018558222 | 0.445 | 0.488 | 2.49E-13 | 0 | 0.911885 |
| Mrpl57 | 2.58E-17 | 0.051165279 | 0.452 | 0.476 | 2.57E-13 | 0 | 0.94958 |
| Rbbp6 | 2.59E-17 | 0.014267411 | 0.384 | 0.426 | 2.57E-13 | 0 | 0.901408 |
| Ndufa11 | 2.60E-17 | 0.005226909 | 0.519 | 0.568 | 2.58E-13 | 0 | 0.913732 |
| Tbc1d1 | 2.62E-17 | 0.061246245 | 0.336 | 0.342 | 2.60E-13 | 0 | 0.982456 |
| Il17ra | 2.66E-17 | 0.023430091 | 0.267 | 0.298 | 2.64E-13 | 0 | 0.895973 |
| Whsc1l1 | 2.68E-17 | 0.042920126 | 0.565 | 0.614 | 2.67E-13 | 0 | 0.920195 |
| Tpt1 | 2.78E-17 | 0.061638696 | 1 | 1 | 2.76E-13 | 0 | 1 |
| Mrpl42 | 2.82E-17 | 0.037177602 | 0.404 | 0.428 | 2.81E-13 | 0 | 0.943925 |
| Nxpe3 | 2.88E-17 | 0.126425285 | 0.267 | 0.219 | 2.86E-13 | 0 | 1.219178 |
| Rassf2 | 2.95E-17 | 0.040687605 | 0.256 | 0.272 | 2.93E-13 | 0 | 0.941176 |
| Ppp2r5a | 3.00E-17 | 0.061455873 | 0.42 | 0.439 | 2.99E-13 | 0 | 0.95672 |
| Pkp3 | 3.19E-17 | 0.0777725 | 0.301 | 0.283 | 3.17E-13 | 0 | 1.063604 |
| Bub3 | 3.25E-17 | 0.021573087 | 0.447 | 0.492 | 3.23E-13 | 0 | 0.908537 |
| Rtf1 | 3.41E-17 | 0.088370286 | 0.554 | 0.558 | 3.39E-13 | 0 | 0.992832 |
| Phf20l1 | 3.52E-17 | 0.082545571 | 0.404 | 0.403 | 3.49E-13 | 0 | 1.002481 |
| Arl2bp | 3.64E-17 | 0.024989897 | 0.404 | 0.437 | 3.62E-13 | 0 | 0.924485 |
| Cuta | 4.00E-17 | 0.060606802 | 0.467 | 0.479 | 3.97E-13 | 0 | 0.974948 |
| Ppp1r18 | 4.19E-17 | 0.095817198 | 0.579 | 0.575 | 4.16E-13 | 0 | 1.006957 |
| Ppp4c | 4.27E-17 | 0.013889222 | 0.47 | 0.518 | 4.25E-13 | 0 | 0.907336 |
| Hnrnp1 | 4.50E-17 | 0.054641687 | 0.456 | 0.477 | 4.47E-13 | 0 | 0.955975 |
| Rbms1 | 4.56E-17 | 0.056048622 | 0.354 | 0.36 | 4.53E-13 | 0 | 0.983333 |
| Sptbn1 | 4.88E-17 | 0.105018558 | 0.504 | 0.494 | 4.85E-13 | 0 | 1.020243 |
| Celf1 | 5.00E-17 | 0.017042994 | 0.293 | 0.326 | 4.97E-13 | 0 | 0.898773 |
| Ptbp1 | 5.08E-17 | 0.013602759 | 0.231 | 0.263 | 5.05E-13 | 0 | 0.878327 |
| Thumpd3 | 5.20E-17 | 0.00707336 | 0.228 | 0.254 | 5.16E-13 | 0 | 0.897638 |
| 2310011J03Rik | 5.23E-17 | 0.031790685 | 0.251 | 0.269 | 5.20E-13 | 0 | 0.933086 |
| Matr3 | 6.03E-17 | 0.077651723 | 0.493 | 0.503 | 5.99E-13 | 0 | 0.980119 |
| Fkbp8 | 6.13E-17 | 0.011979998 | 0.495 | 0.543 | 6.09E-13 | 0 | 0.911602 |
| Polr2e | 6.35E-17 | 0.00845743 | 0.455 | 0.488 | 6.31E-13 | 0 | 0.932377 |
| Setx | 7.63E-17 | 0.058467685 | 0.372 | 0.384 | 7.59E-13 | 0 | 0.96875 |
| Scaf11 | 7.69E-17 | 0.034630326 | 0.47 | 0.501 | 7.64E-13 | 0 | 0.938124 |
| Fip1l1 | 7.74E-17 | 0.007882454 | 0.31 | 0.352 | 7.69E-13 | 0 | 0.880682 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Ikbbk | 8.19E-17 | 0.039271989 | 0.455 | 0.482 | 8.14E-13 | 0 | 0.943983 |
| Lamtor2 | 8.21E-17 | 0.065067324 | 0.624 | 0.647 | 8.16E-13 | 0 | 0.964451 |
| Def6 | 8.29E-17 | 0.014055085 | 0.362 | 0.404 | 8.24E-13 | 0 | 0.89604 |
| Ccdc53 | 8.36E-17 | 0.022938952 | 0.374 | 0.412 | 8.31E-13 | 0 | 0.907767 |
| Anapc5 | 8.57E-17 | 0.021575577 | 0.449 | 0.493 | 8.52E-13 | 0 | 0.910751 |
| Spop | 9.00E-17 | 0.051464571 | 0.335 | 0.349 | 8.95E-13 | 0 | 0.959885 |
| Tmem71 | 9.02E-17 | 0.047788834 | 0.36 | 0.382 | 8.96E-13 | 0 | 0.942408 |
| Zmat2 | 9.08E-17 | 0.003459576 | 0.45 | 0.503 | 9.03E-13 | 0 | 0.894632 |
| Sars | 9.62E-17 | 0.032264642 | 0.422 | 0.462 | 9.57E-13 | 0 | 0.91342 |
| Tsc22d4 | 1.04E-16 | 0.08698109 | 0.621 | 0.63 | 1.04E-12 | 0 | 0.985714 |
| H2-D1 | 1.07E-16 | 0.043930025 | 1 | 1 | 1.06E-12 | 0 | 1 |
| Ewsr1 | 1.13E-16 | 0.006037483 | 0.487 | 0.541 | 1.13E-12 | 0 | 0.900185 |
| Pdcd6 | 1.18E-16 | 0.027609146 | 0.485 | 0.518 | 1.17E-12 | 0 | 0.936293 |
| Ndufab1 | 1.20E-16 | 0.047229958 | 0.44 | 0.457 | 1.20E-12 | 0 | 0.962801 |
| Gm9843 | 1.25E-16 | 0.024677815 | 0.569 | 0.619 | 1.24E-12 | 0 | 0.919225 |
| Ssbp4 | 1.33E-16 | 0.009714226 | 0.282 | 0.324 | 1.32E-12 | 0 | 0.87037 |
| Spag7 | 1.34E-16 | 0.008431367 | 0.267 | 0.303 | 1.34E-12 | 0 | 0.881188 |
| Stk10 | 1.61E-16 | 0.01590366 | 0.293 | 0.327 | 1.61E-12 | 0 | 0.896024 |
| Tardbp | 1.66E-16 | 0.025168068 | 0.342 | 0.378 | 1.65E-12 | 0 | 0.904762 |
| Gramd1a | 1.71E-16 | 0.066828579 | 0.416 | 0.422 | 1.70E-12 | 0 | 0.985782 |
| Nktr | 1.75E-16 | 0.044959084 | 0.501 | 0.535 | 1.74E-12 | 0 | 0.936449 |
| Dut | 1.78E-16 | 0.047731673 | 0.295 | 0.304 | 1.77E-12 | 0 | 0.970395 |
| Dnajc3 | 1.80E-16 | 0.017001093 | 0.375 | 0.416 | 1.79E-12 | 0 | 0.901442 |
| Ppil4 | 1.82E-16 | 0.016756309 | 0.335 | 0.38 | 1.81E-12 | 0 | 0.881579 |
| Icam2 | 1.87E-16 | 0.044696054 | 0.285 | 0.297 | 1.85E-12 | 0 | 0.959596 |
| Commd4 | 1.88E-16 | 0.014913357 | 0.297 | 0.337 | 1.86E-12 | 0 | 0.881306 |
| Ndufb4 | 2.02E-16 | 0.077814856 | 0.591 | 0.597 | 2.01E-12 | 0 | 0.98995 |
| Birc6 | 2.03E-16 | 0.025026379 | 0.343 | 0.383 | 2.02E-12 | 0 | 0.895561 |
| 0610030E20Rik | 2.14E-16 | 0.007122345 | 0.245 | 0.276 | 2.12E-12 | 0 | 0.887681 |
| Bnip3l | 2.17E-16 | 0.031731691 | 0.587 | 0.628 | 2.16E-12 | 0 | 0.934713 |
| Kcnab2 | 2.36E-16 | 0.015383119 | 0.256 | 0.285 | 2.34E-12 | 0 | 0.898246 |
| Crif3 | 2.40E-16 | 0.136342654 | 0.584 | 0.552 | 2.39E-12 | 0 | 1.057971 |
| Dpm3 | 2.51E-16 | 0.027674056 | 0.548 | 0.599 | 2.49E-12 | 0 | 0.914858 |
| Scamp3 | 2.57E-16 | 0.027742253 | 0.365 | 0.389 | 2.56E-12 | 0 | 0.938303 |
| N4bp2l2 | 2.74E-16 | 0.041792551 | 0.444 | 0.471 | 2.72E-12 | 0 | 0.942675 |
| Rbm4b | 2.98E-16 | 0.032977428 | 0.272 | 0.286 | 2.96E-12 | 0 | 0.951049 |
| Yy1 | 3.01E-16 | 0.029472864 | 0.306 | 0.327 | 3.00E-12 | 0 | 0.93578 |
| U2surp | 3.11E-16 | 0.015849924 | 0.397 | 0.433 | 3.09E-12 | 0 | 0.916859 |
| Krcc1 | 3.16E-16 | 0.013101787 | 0.388 | 0.434 | 3.14E-12 | 0 | 0.894009 |
| Ctage5 | 3.30E-16 | 0.07359324 | 0.432 | 0.442 | 3.28E-12 | 0 | 0.977376 |
| Fam78a | 3.45E-16 | 0.107972827 | 0.399 | 0.386 | 3.43E-12 | 0 | 1.033679 |
| Ssu72 | 3.47E-16 | 0.094187942 | 0.606 | 0.608 | 3.45E-12 | 0 | 0.996711 |
| Vamp8 | 3.48E-16 | 0.033409534 | 0.47 | 0.498 | 3.46E-12 | 0 | 0.943775 |
| Frg1 | 3.50E-16 | 0.015835187 | 0.4 | 0.447 | 3.47E-12 | 0 | 0.894855 |
| Sbds | 3.92E-16 | 0.010315965 | 0.273 | 0.311 | 3.90E-12 | 0 | 0.877814 |
| Cbx3 | 3.97E-16 | 0.068687797 | 0.541 | 0.558 | 3.95E-12 | 0 | 0.969534 |

| gene | p_val | avg_logFC | pct.1 | pct.2 | p_val_adj | cluster | gene_diff |
|---------------|----------|-------------|-------|-------|-----------|---------|-----------|
| Abhd8 | 4.15E-16 | 0.041747534 | 0.389 | 0.402 | 4.13E-12 | 0 | 0.967662 |
| Llph | 4.25E-16 | 0.036390944 | 0.545 | 0.589 | 4.22E-12 | 0 | 0.925297 |
| Gadd45gip1 | 4.29E-16 | 0.006729103 | 0.258 | 0.296 | 4.26E-12 | 0 | 0.871622 |
| Utrn | 4.34E-16 | 0.012767804 | 0.417 | 0.461 | 4.31E-12 | 0 | 0.904555 |
| Atp6v1g1 | 4.52E-16 | 0.044035042 | 0.555 | 0.588 | 4.50E-12 | 0 | 0.943878 |
| Smc3 | 4.71E-16 | 0.013147411 | 0.394 | 0.427 | 4.68E-12 | 0 | 0.922717 |
| Ccdc174 | 4.99E-16 | 0.043600331 | 0.246 | 0.261 | 4.96E-12 | 0 | 0.942529 |
| Pdha1 | 5.09E-16 | 0.02607398 | 0.297 | 0.324 | 5.06E-12 | 0 | 0.916667 |
| Tmed10 | 5.20E-16 | 0.024312773 | 0.421 | 0.452 | 5.17E-12 | 0 | 0.931416 |
| Rpp21 | 5.24E-16 | 0.048566192 | 0.361 | 0.382 | 5.21E-12 | 0 | 0.945026 |
| Nono | 5.30E-16 | 0.002828773 | 0.516 | 0.571 | 5.27E-12 | 0 | 0.903678 |
| Mrps21 | 5.38E-16 | 0.019011771 | 0.517 | 0.558 | 5.35E-12 | 0 | 0.926523 |
| Taf6l | 5.99E-16 | 0.047098215 | 0.392 | 0.41 | 5.96E-12 | 0 | 0.956098 |
| Rps23 | 6.08E-16 | 0.008092976 | 1 | 1 | 6.04E-12 | 0 | 1 |
| Esyt1 | 6.22E-16 | 0.027328438 | 0.253 | 0.276 | 6.18E-12 | 0 | 0.916667 |
| Tmem59 | 6.37E-16 | 0.054093563 | 0.584 | 0.607 | 6.33E-12 | 0 | 0.962109 |
| Atp1a1 | 6.83E-16 | 0.036518287 | 0.392 | 0.422 | 6.79E-12 | 0 | 0.92891 |
| Anapc11 | 6.90E-16 | 0.019442899 | 0.388 | 0.422 | 6.86E-12 | 0 | 0.919431 |
| Fam32a | 6.95E-16 | 0.013553129 | 0.411 | 0.448 | 6.91E-12 | 0 | 0.917411 |
| Pcbp2 | 7.14E-16 | 0.005022961 | 0.668 | 0.737 | 7.10E-12 | 0 | 0.906377 |
| Sptssa | 7.36E-16 | 0.026810991 | 0.392 | 0.424 | 7.31E-12 | 0 | 0.924528 |
| Anp32a | 7.74E-16 | 0.118690297 | 0.869 | 0.858 | 7.70E-12 | 0 | 1.012821 |
| Lsm4 | 7.83E-16 | 0.049513001 | 0.643 | 0.67 | 7.78E-12 | 0 | 0.959701 |
| Ddx3x | 8.48E-16 | 0.016200885 | 0.237 | 0.263 | 8.43E-12 | 0 | 0.901141 |
| Sra1 | 8.50E-16 | 0.032229477 | 0.394 | 0.423 | 8.44E-12 | 0 | 0.931442 |
| Tmem50a | 8.74E-16 | 0.088782027 | 0.787 | 0.803 | 8.68E-12 | 0 | 0.980075 |
| Max | 8.77E-16 | 0.006191124 | 0.313 | 0.352 | 8.72E-12 | 0 | 0.889205 |
| Pole4 | 9.56E-16 | 0.041820654 | 0.536 | 0.576 | 9.50E-12 | 0 | 0.930556 |
| Vim | 9.75E-16 | 0.093777848 | 0.668 | 0.625 | 9.69E-12 | 0 | 1.0688 |
| Bin1 | 9.87E-16 | 0.017671876 | 0.441 | 0.479 | 9.81E-12 | 0 | 0.920668 |
| 0610012G03Rik | 1.04E-15 | 0.017439613 | 0.33 | 0.361 | 1.03E-11 | 0 | 0.914127 |
| Hnrnpu | 1.13E-15 | 0.005138072 | 0.528 | 0.592 | 1.12E-11 | 0 | 0.891892 |
| Pbrm1 | 1.20E-15 | 0.012102126 | 0.351 | 0.396 | 1.19E-11 | 0 | 0.886364 |
| Hnrnpr | 1.23E-15 | 0.042875824 | 0.52 | 0.555 | 1.22E-11 | 0 | 0.936937 |
| Nrd1 | 1.28E-15 | 0.013381866 | 0.267 | 0.304 | 1.27E-11 | 0 | 0.878289 |
| Ptp4a3 | 1.31E-15 | 0.026500998 | 0.384 | 0.411 | 1.30E-11 | 0 | 0.934307 |
| Ash1l | 1.32E-15 | 0.049509557 | 0.391 | 0.409 | 1.31E-11 | 0 | 0.95599 |
| Bcl11b | 1.33E-15 | 0.128168886 | 0.793 | 0.77 | 1.32E-11 | 0 | 1.02987 |
| Arrb2 | 1.40E-15 | 0.023504477 | 0.344 | 0.379 | 1.39E-11 | 0 | 0.907652 |
| Lims1 | 1.53E-15 | 0.008204847 | 0.262 | 0.294 | 1.52E-11 | 0 | 0.891156 |
| Arf6 | 1.54E-15 | 0.017995579 | 0.494 | 0.535 | 1.53E-11 | 0 | 0.923364 |
| Dcps | 1.68E-15 | 0.010997903 | 0.252 | 0.284 | 1.67E-11 | 0 | 0.887324 |
| Git2 | 1.70E-15 | 0.033560919 | 0.405 | 0.426 | 1.69E-11 | 0 | 0.950704 |
| Psma1 | 1.74E-15 | 0.0164603 | 0.539 | 0.588 | 1.72E-11 | 0 | 0.916667 |
| Hsp90b1 | 1.75E-15 | 0.015818277 | 0.505 | 0.545 | 1.74E-11 | 0 | 0.926606 |
| Tnfaip8l2 | 1.76E-15 | 0.113879647 | 0.578 | 0.549 | 1.75E-11 | 0 | 1.052823 |

| | | | | | | | |
|---------------|----------|-------------|-------|-------|----------|---|----------|
| Mak16 | 1.79E-15 | 0.027742804 | 0.253 | 0.275 | 1.78E-11 | 0 | 0.92 |
| G3bp2 | 1.93E-15 | 0.06358965 | 0.516 | 0.533 | 1.92E-11 | 0 | 0.968105 |
| Med28 | 2.05E-15 | 0.009579072 | 0.593 | 0.652 | 2.04E-11 | 0 | 0.909509 |
| Rsf1 | 2.14E-15 | 0.027662323 | 0.301 | 0.327 | 2.12E-11 | 0 | 0.920489 |
| Klhdc1 | 2.20E-15 | 0.095367584 | 0.265 | 0.24 | 2.19E-11 | 0 | 1.104167 |
| Hnrnpdl | 2.22E-15 | 0.029125485 | 0.516 | 0.561 | 2.21E-11 | 0 | 0.919786 |
| Acsl5 | 2.32E-15 | 0.037268297 | 0.258 | 0.26 | 2.31E-11 | 0 | 0.992308 |
| Brk1 | 2.36E-15 | 0.008762866 | 0.593 | 0.652 | 2.34E-11 | 0 | 0.909509 |
| Smdt1 | 2.44E-15 | 0.011348837 | 0.565 | 0.617 | 2.42E-11 | 0 | 0.915721 |
| Actr2 | 2.52E-15 | 0.060940784 | 0.569 | 0.588 | 2.51E-11 | 0 | 0.967687 |
| Sec62 | 2.56E-15 | 0.027526018 | 0.564 | 0.608 | 2.55E-11 | 0 | 0.927632 |
| Ktn1 | 2.58E-15 | 0.00108898 | 0.283 | 0.32 | 2.57E-11 | 0 | 0.884375 |
| Hdac1 | 2.67E-15 | 0.065113903 | 0.423 | 0.428 | 2.65E-11 | 0 | 0.988318 |
| Phip | 2.69E-15 | 0.012757589 | 0.31 | 0.327 | 2.67E-11 | 0 | 0.948012 |
| Mrpl18 | 2.77E-15 | 0.005516702 | 0.5 | 0.542 | 2.75E-11 | 0 | 0.922509 |
| Mphosph8 | 2.81E-15 | 0.001820283 | 0.23 | 0.265 | 2.79E-11 | 0 | 0.867925 |
| Gimap9 | 2.90E-15 | 0.084877529 | 0.557 | 0.559 | 2.88E-11 | 0 | 0.996422 |
| Taldo1 | 2.91E-15 | 0.019398395 | 0.573 | 0.621 | 2.89E-11 | 0 | 0.922705 |
| Rp9 | 2.93E-15 | 0.056441516 | 0.479 | 0.496 | 2.92E-11 | 0 | 0.965726 |
| Cd84 | 2.94E-15 | 0.01142583 | 0.482 | 0.537 | 2.92E-11 | 0 | 0.897579 |
| Utp14a | 3.04E-15 | 0.004308818 | 0.224 | 0.257 | 3.02E-11 | 0 | 0.871595 |
| Ndufb10 | 3.23E-15 | 0.045192871 | 0.594 | 0.632 | 3.21E-11 | 0 | 0.939873 |
| Tuba4a | 3.26E-15 | 0.067524066 | 0.504 | 0.516 | 3.24E-11 | 0 | 0.976744 |
| Mrps14 | 3.27E-15 | 0.035987033 | 0.655 | 0.702 | 3.25E-11 | 0 | 0.933048 |
| S1pr1 | 3.33E-15 | 0.126240963 | 0.606 | 0.569 | 3.31E-11 | 0 | 1.065026 |
| Cbx4 | 3.47E-15 | 0.054048716 | 0.256 | 0.26 | 3.45E-11 | 0 | 0.984615 |
| Nr3c1 | 3.60E-15 | 0.024827218 | 0.237 | 0.261 | 3.58E-11 | 0 | 0.908046 |
| Spint2 | 3.61E-15 | 0.03421041 | 0.422 | 0.459 | 3.59E-11 | 0 | 0.91939 |
| Tmed2 | 3.69E-15 | 0.046113213 | 0.7 | 0.738 | 3.67E-11 | 0 | 0.948509 |
| Rbm5 | 3.85E-15 | 0.042535703 | 0.491 | 0.513 | 3.82E-11 | 0 | 0.957115 |
| Tra2a | 3.86E-15 | 0.001998683 | 0.297 | 0.334 | 3.84E-11 | 0 | 0.889222 |
| Tra2b | 3.96E-15 | 0.020081942 | 0.612 | 0.669 | 3.93E-11 | 0 | 0.914798 |
| Ndufv3 | 4.13E-15 | 0.075394826 | 0.674 | 0.691 | 4.10E-11 | 0 | 0.975398 |
| Tram1 | 4.30E-15 | 0.001845721 | 0.432 | 0.485 | 4.28E-11 | 0 | 0.890722 |
| Ccnl1 | 4.36E-15 | 0.0327786 | 0.422 | 0.457 | 4.33E-11 | 0 | 0.923414 |
| Hmgn2 | 4.57E-15 | 0.023130301 | 0.386 | 0.406 | 4.54E-11 | 0 | 0.950739 |
| 2810474O19Rik | 4.59E-15 | 0.099594388 | 0.414 | 0.408 | 4.56E-11 | 0 | 1.014706 |
| Tax1bp1 | 4.75E-15 | 0.012879353 | 0.609 | 0.669 | 4.72E-11 | 0 | 0.910314 |
| Fermt3 | 4.95E-15 | 0.000261222 | 0.344 | 0.387 | 4.92E-11 | 0 | 0.888889 |
| Bzw2 | 5.04E-15 | 0.008097164 | 0.397 | 0.436 | 5.01E-11 | 0 | 0.91055 |
| D8Erttd738e | 5.31E-15 | 0.006278335 | 0.643 | 0.704 | 5.28E-11 | 0 | 0.913352 |
| Cdc42se1 | 5.50E-15 | 0.035707743 | 0.487 | 0.515 | 5.47E-11 | 0 | 0.945631 |
| Rdx | 5.50E-15 | 0.008908936 | 0.362 | 0.4 | 5.47E-11 | 0 | 0.905 |
| Ppp1r11 | 5.54E-15 | 0.034565454 | 0.413 | 0.441 | 5.51E-11 | 0 | 0.936508 |
| Ncor1 | 5.76E-15 | 0.027883388 | 0.614 | 0.667 | 5.73E-11 | 0 | 0.92054 |
| Kbtbd11 | 6.80E-15 | 0.039549055 | 0.523 | 0.558 | 6.76E-11 | 0 | 0.937276 |
| Pdlim1 | 6.85E-15 | 0.042884936 | 0.297 | 0.308 | 6.81E-11 | 0 | 0.964286 |

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|---------------|----------|-------------|-------|-------|----------|---|----------|
| Bod1l | 6.96E-15 | 0.021748003 | 0.465 | 0.514 | 6.92E-11 | 0 | 0.904669 |
| Ppig | 7.31E-15 | 0.006676367 | 0.458 | 0.512 | 7.27E-11 | 0 | 0.894531 |
| Fkbp3 | 7.72E-15 | 0.086031332 | 0.706 | 0.719 | 7.67E-11 | 0 | 0.981919 |
| Zfp281 | 8.46E-15 | 0.047442721 | 0.276 | 0.279 | 8.41E-11 | 0 | 0.989247 |
| Unc50 | 8.55E-15 | 0.040614062 | 0.268 | 0.279 | 8.49E-11 | 0 | 0.960573 |
| Rab2a | 9.01E-15 | 0.002746785 | 0.523 | 0.573 | 8.95E-11 | 0 | 0.91274 |
| Arid4a | 9.16E-15 | 0.03967306 | 0.388 | 0.417 | 9.11E-11 | 0 | 0.930456 |
| Ier3ip1 | 9.57E-15 | 0.068886266 | 0.547 | 0.55 | 9.52E-11 | 0 | 0.994545 |
| Gimp | 9.65E-15 | 0.02643338 | 0.278 | 0.3 | 9.59E-11 | 0 | 0.926667 |
| Itm2b | 1.05E-14 | 0.07815563 | 0.974 | 0.969 | 1.05E-10 | 0 | 1.00516 |
| Eif3i | 1.22E-14 | 0.069396655 | 0.719 | 0.739 | 1.21E-10 | 0 | 0.972936 |
| Znrf1 | 1.30E-14 | 0.069728584 | 0.311 | 0.297 | 1.29E-10 | 0 | 1.047138 |
| Phyh | 1.35E-14 | 0.014874413 | 0.25 | 0.275 | 1.34E-10 | 0 | 0.909091 |
| Cops5 | 1.36E-14 | 0.019792679 | 0.242 | 0.264 | 1.35E-10 | 0 | 0.916667 |
| Tcf7 | 1.70E-14 | 0.07121739 | 0.636 | 0.657 | 1.69E-10 | 0 | 0.968037 |
| Hspa9 | 1.71E-14 | 0.016545721 | 0.423 | 0.452 | 1.70E-10 | 0 | 0.935841 |
| Clip1 | 1.80E-14 | 0.086799638 | 0.327 | 0.311 | 1.79E-10 | 0 | 1.051447 |
| Rcsd1 | 1.82E-14 | 0.082077595 | 0.471 | 0.467 | 1.80E-10 | 0 | 1.008565 |
| Tuba1a | 1.82E-14 | 0.003450036 | 0.455 | 0.503 | 1.81E-10 | 0 | 0.904573 |
| Akap9 | 1.89E-14 | 0.052615879 | 0.335 | 0.349 | 1.88E-10 | 0 | 0.959885 |
| Psmb4 | 2.22E-14 | 0.007445491 | 0.511 | 0.562 | 2.21E-10 | 0 | 0.909253 |
| Prdx2 | 2.28E-14 | 0.054969153 | 0.366 | 0.36 | 2.27E-10 | 0 | 1.016667 |
| Ddit4 | 2.45E-14 | 0.069775925 | 0.353 | 0.365 | 2.43E-10 | 0 | 0.967123 |
| S1pr4 | 2.54E-14 | 0.034729803 | 0.406 | 0.432 | 2.52E-10 | 0 | 0.939815 |
| 1500011B03Rik | 2.74E-14 | 0.050097021 | 0.28 | 0.288 | 2.72E-10 | 0 | 0.972222 |
| Snrpd3 | 2.75E-14 | 0.069091791 | 0.717 | 0.742 | 2.73E-10 | 0 | 0.966307 |
| Sf3b5 | 2.75E-14 | 0.031504904 | 0.554 | 0.591 | 2.74E-10 | 0 | 0.937394 |
| Capns1 | 2.81E-14 | 0.007128922 | 0.44 | 0.488 | 2.79E-10 | 0 | 0.901639 |
| Kmt2e | 2.88E-14 | 0.009222579 | 0.49 | 0.545 | 2.86E-10 | 0 | 0.899083 |
| Sh3kbp1 | 3.04E-14 | 0.028082753 | 0.515 | 0.552 | 3.02E-10 | 0 | 0.932971 |
| Gabarapl2 | 3.19E-14 | 0.025308688 | 0.592 | 0.634 | 3.17E-10 | 0 | 0.933754 |
| Nrip1 | 3.49E-14 | 0.016796086 | 0.24 | 0.261 | 3.47E-10 | 0 | 0.91954 |
| Nudcd3 | 3.68E-14 | 0.01017463 | 0.39 | 0.428 | 3.66E-10 | 0 | 0.911215 |
| Ociad1 | 3.78E-14 | 0.007137355 | 0.48 | 0.523 | 3.76E-10 | 0 | 0.917782 |
| Wdr83os | 4.11E-14 | 0.049210917 | 0.392 | 0.398 | 4.09E-10 | 0 | 0.984925 |
| Rwdd1 | 4.19E-14 | 0.015652811 | 0.467 | 0.511 | 4.16E-10 | 0 | 0.913894 |
| Pfn1 | 4.40E-14 | 0.056392099 | 1 | 1 | 4.37E-10 | 0 | 1 |
| Tor1aip1 | 4.62E-14 | 0.002399193 | 0.263 | 0.293 | 4.59E-10 | 0 | 0.897611 |
| Gnai2 | 4.74E-14 | 0.069851714 | 0.686 | 0.71 | 4.71E-10 | 0 | 0.966197 |
| Fam3c | 4.98E-14 | 0.081526963 | 0.336 | 0.319 | 4.95E-10 | 0 | 1.053292 |
| Inpp4b | 6.22E-14 | 0.058009894 | 0.466 | 0.462 | 6.19E-10 | 0 | 1.008658 |
| Aurkaip1 | 6.28E-14 | 0.022974418 | 0.538 | 0.578 | 6.24E-10 | 0 | 0.930796 |
| Uqcrrfs1 | 6.43E-14 | 0.030973964 | 0.591 | 0.629 | 6.39E-10 | 0 | 0.939587 |
| Suclg1 | 6.76E-14 | 0.058014515 | 0.467 | 0.472 | 6.72E-10 | 0 | 0.989407 |
| Romo1 | 6.91E-14 | 0.006913332 | 0.49 | 0.541 | 6.87E-10 | 0 | 0.90573 |
| Ywhab | 7.23E-14 | 0.008855528 | 0.499 | 0.543 | 7.19E-10 | 0 | 0.918969 |
| BC021614 | 7.30E-14 | 0.003388068 | 0.348 | 0.376 | 7.26E-10 | 0 | 0.925532 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Srsf11 | 7.94E-14 | 0.045489491 | 0.577 | 0.609 | 7.90E-10 | 0 | 0.947455 |
| Ets1 | 8.40E-14 | 0.11104058 | 0.849 | 0.838 | 8.35E-10 | 0 | 1.013126 |
| Lrrfip1 | 9.71E-14 | 0.032328595 | 0.54 | 0.576 | 9.65E-10 | 0 | 0.9375 |
| H2afy | 9.73E-14 | 0.015475876 | 0.54 | 0.589 | 9.67E-10 | 0 | 0.916808 |
| Dok2 | 1.03E-13 | 0.072558955 | 0.528 | 0.54 | 1.02E-09 | 0 | 0.977778 |
| Gabarap | 1.10E-13 | 0.005880066 | 0.656 | 0.71 | 1.10E-09 | 0 | 0.923944 |
| Ramp1 | 1.12E-13 | 0.098145221 | 0.625 | 0.593 | 1.11E-09 | 0 | 1.053963 |
| Tbca | 1.13E-13 | 0.067161559 | 0.704 | 0.716 | 1.12E-09 | 0 | 0.98324 |
| Preli1 | 1.19E-13 | 0.037949352 | 0.545 | 0.576 | 1.18E-09 | 0 | 0.946181 |
| Ythdc1 | 1.21E-13 | 0.045222556 | 0.427 | 0.447 | 1.20E-09 | 0 | 0.955257 |
| Timm13 | 1.25E-13 | 0.07641224 | 0.621 | 0.63 | 1.25E-09 | 0 | 0.985714 |
| Pafah1b1 | 1.39E-13 | 0.010500892 | 0.581 | 0.634 | 1.38E-09 | 0 | 0.916404 |
| Ikbke | 1.42E-13 | 0.029910911 | 0.293 | 0.315 | 1.41E-09 | 0 | 0.930159 |
| Oser1 | 1.63E-13 | 0.001474523 | 0.262 | 0.299 | 1.62E-09 | 0 | 0.876254 |
| Cdkn2d | 1.66E-13 | 0.083419876 | 0.479 | 0.476 | 1.65E-09 | 0 | 1.006303 |
| Gltp | 1.66E-13 | 0.031853564 | 0.477 | 0.5 | 1.65E-09 | 0 | 0.954 |
| Gm12840 | 1.88E-13 | 0.183720793 | 0.539 | 0.509 | 1.87E-09 | 0 | 1.058939 |
| Slc9a3r1 | 2.03E-13 | 0.085901658 | 0.592 | 0.586 | 2.02E-09 | 0 | 1.010239 |
| Nol7 | 2.18E-13 | 0.011156235 | 0.668 | 0.729 | 2.17E-09 | 0 | 0.916324 |
| Krtcap2 | 2.27E-13 | 0.05930319 | 0.68 | 0.711 | 2.25E-09 | 0 | 0.956399 |
| Chmp2a | 2.29E-13 | 0.039078776 | 0.544 | 0.573 | 2.28E-09 | 0 | 0.949389 |
| Pgs1 | 2.39E-13 | 0.023281395 | 0.274 | 0.292 | 2.37E-09 | 0 | 0.938356 |
| Dusp11 | 2.43E-13 | 0.05116902 | 0.525 | 0.544 | 2.42E-09 | 0 | 0.965074 |
| Tmed9 | 2.44E-13 | 0.020416251 | 0.565 | 0.606 | 2.42E-09 | 0 | 0.932343 |
| Rnf167 | 2.78E-13 | 0.066799454 | 0.573 | 0.585 | 2.76E-09 | 0 | 0.979487 |
| Rrp1 | 2.95E-13 | 0.016681863 | 0.501 | 0.543 | 2.93E-09 | 0 | 0.922652 |
| Mat2a | 3.00E-13 | 0.048768717 | 0.477 | 0.501 | 2.98E-09 | 0 | 0.952096 |
| Cox14 | 3.26E-13 | 0.025883572 | 0.581 | 0.621 | 3.24E-09 | 0 | 0.935588 |
| Ap2s1 | 3.53E-13 | 0.012137766 | 0.493 | 0.531 | 3.51E-09 | 0 | 0.928437 |
| Ppp1cc | 3.77E-13 | 0.051790589 | 0.678 | 0.709 | 3.75E-09 | 0 | 0.956276 |
| Ndufa3 | 3.92E-13 | 0.077717259 | 0.785 | 0.804 | 3.90E-09 | 0 | 0.976368 |
| Tmem234 | 4.47E-13 | 0.053265368 | 0.7 | 0.736 | 4.45E-09 | 0 | 0.951087 |
| Il16 | 4.87E-13 | 0.026437992 | 0.549 | 0.583 | 4.84E-09 | 0 | 0.941681 |
| Zfp706 | 5.09E-13 | 0.037442748 | 0.665 | 0.7 | 5.06E-09 | 0 | 0.95 |
| Akr1a1 | 5.65E-13 | 0.025085935 | 0.504 | 0.542 | 5.61E-09 | 0 | 0.929889 |
| Scp2 | 5.76E-13 | 0.082117678 | 0.778 | 0.789 | 5.73E-09 | 0 | 0.986058 |
| Gpatch4 | 7.56E-13 | 0.008165438 | 0.251 | 0.283 | 7.52E-09 | 0 | 0.886926 |
| Pnn | 7.64E-13 | 0.018255236 | 0.536 | 0.578 | 7.60E-09 | 0 | 0.927336 |
| Camk2d | 8.46E-13 | 0.005641881 | 0.241 | 0.267 | 8.41E-09 | 0 | 0.902622 |
| Msn | 8.97E-13 | 0.058192699 | 0.812 | 0.846 | 8.91E-09 | 0 | 0.959811 |
| Cox7a2 | 9.71E-13 | 0.040486933 | 0.77 | 0.814 | 9.65E-09 | 0 | 0.945946 |
| Hmha1 | 9.75E-13 | 0.114985207 | 0.902 | 0.89 | 9.69E-09 | 0 | 1.013483 |
| Reep5 | 1.06E-12 | 0.013685036 | 0.404 | 0.424 | 1.05E-08 | 0 | 0.95283 |
| Gcc2 | 1.12E-12 | 0.017210907 | 0.228 | 0.26 | 1.11E-08 | 0 | 0.876923 |
| Rps4x | 1.14E-12 | 0.017615817 | 1 | 1 | 1.13E-08 | 0 | 1 |
| Ssb | 1.17E-12 | 0.003422484 | 0.651 | 0.706 | 1.16E-08 | 0 | 0.922096 |
| Gm42418 | 1.21E-12 | 0.015743028 | 0.875 | 0.922 | 1.21E-08 | 0 | 0.949024 |

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|----------------|----------|-------------|-------|-------|----------|---|----------|
| 9930111J21Rik2 | 1.25E-12 | 0.030340359 | 0.465 | 0.49 | 1.25E-08 | 0 | 0.94898 |
| Ube3a | 1.27E-12 | 0.018078185 | 0.369 | 0.406 | 1.27E-08 | 0 | 0.908867 |
| Dad1 | 1.33E-12 | 0.014987205 | 0.713 | 0.761 | 1.32E-08 | 0 | 0.936925 |
| Ppia | 1.46E-12 | 0.067959196 | 1 | 1 | 1.45E-08 | 0 | 1 |
| 4930523C07Rik | 1.80E-12 | 0.116198141 | 0.793 | 0.758 | 1.79E-08 | 0 | 1.046174 |
| Ndufv2 | 1.95E-12 | 0.008828568 | 0.485 | 0.53 | 1.93E-08 | 0 | 0.915094 |
| Eif4g2 | 2.14E-12 | 0.045629223 | 0.7 | 0.734 | 2.12E-08 | 0 | 0.953678 |
| Gm2000 | 2.21E-12 | 0.021493381 | 0.654 | 0.702 | 2.20E-08 | 0 | 0.931624 |
| Sf3b2 | 2.28E-12 | 0.030017523 | 0.688 | 0.732 | 2.27E-08 | 0 | 0.939891 |
| Cd37 | 2.32E-12 | 0.065843003 | 0.618 | 0.629 | 2.31E-08 | 0 | 0.982512 |
| Sgk1 | 2.52E-12 | 0.017448643 | 0.298 | 0.317 | 2.51E-08 | 0 | 0.940063 |
| Nop10 | 2.70E-12 | 0.082678096 | 0.849 | 0.859 | 2.68E-08 | 0 | 0.988359 |
| Srsf3 | 3.38E-12 | 0.004643092 | 0.626 | 0.676 | 3.36E-08 | 0 | 0.926036 |
| Filip1l | 3.58E-12 | 0.052735482 | 0.283 | 0.29 | 3.56E-08 | 0 | 0.975862 |
| Rap1b | 3.82E-12 | 0.021706857 | 0.716 | 0.754 | 3.80E-08 | 0 | 0.949602 |
| Usmg5 | 3.96E-12 | 0.054565613 | 0.66 | 0.676 | 3.94E-08 | 0 | 0.976331 |
| mt-Nd5 | 4.16E-12 | 0.023617376 | 0.579 | 0.622 | 4.13E-08 | 0 | 0.930868 |
| Tagln2 | 4.25E-12 | 0.056377765 | 0.675 | 0.699 | 4.22E-08 | 0 | 0.965665 |
| Arl4c | 4.77E-12 | 0.112810397 | 0.918 | 0.86 | 4.74E-08 | 0 | 1.067442 |
| Txnip | 5.27E-12 | 0.070191766 | 0.614 | 0.621 | 5.23E-08 | 0 | 0.988728 |
| Psap | 5.61E-12 | 0.002371737 | 0.504 | 0.549 | 5.57E-08 | 0 | 0.918033 |
| Pitpnc1 | 6.11E-12 | 0.038679612 | 0.347 | 0.364 | 6.07E-08 | 0 | 0.953297 |
| Thrap3 | 6.96E-12 | 0.022803819 | 0.547 | 0.588 | 6.92E-08 | 0 | 0.930272 |
| Mrpl33 | 7.28E-12 | 0.024175243 | 0.683 | 0.732 | 7.23E-08 | 0 | 0.93306 |
| Pla2g16 | 7.48E-12 | 0.031809067 | 0.429 | 0.45 | 7.43E-08 | 0 | 0.953333 |
| 15-Sep | 7.59E-12 | 0.01841531 | 0.682 | 0.721 | 7.54E-08 | 0 | 0.945908 |
| Aes | 8.22E-12 | 0.020076983 | 0.619 | 0.657 | 8.17E-08 | 0 | 0.942161 |
| Spcs1 | 9.00E-12 | 0.050910537 | 0.659 | 0.678 | 8.95E-08 | 0 | 0.971976 |
| Prpf38b | 9.52E-12 | 0.016239573 | 0.548 | 0.594 | 9.46E-08 | 0 | 0.922559 |
| Klf13 | 9.92E-12 | 0.08029153 | 0.733 | 0.749 | 9.86E-08 | 0 | 0.978638 |
| Pnlsr | 1.06E-11 | 0.034400425 | 0.563 | 0.583 | 1.06E-07 | 0 | 0.965695 |
| Syf2 | 1.10E-11 | 0.057972082 | 0.596 | 0.602 | 1.10E-07 | 0 | 0.990033 |
| Calr | 1.18E-11 | 0.060311488 | 0.69 | 0.712 | 1.17E-07 | 0 | 0.969101 |
| Pebp1 | 1.24E-11 | 0.02620443 | 0.62 | 0.659 | 1.24E-07 | 0 | 0.940819 |
| Srp14 | 1.27E-11 | 0.020050224 | 0.683 | 0.733 | 1.27E-07 | 0 | 0.931787 |
| Rplp2 | 1.28E-11 | 0.005798417 | 1 | 1 | 1.27E-07 | 0 | 1 |
| Slfn1 | 1.52E-11 | 0.000782942 | 0.493 | 0.53 | 1.51E-07 | 0 | 0.930189 |
| Raly | 1.71E-11 | 0.025711629 | 0.606 | 0.644 | 1.70E-07 | 0 | 0.940994 |
| Cd52 | 1.83E-11 | 0.032564169 | 0.999 | 1 | 1.82E-07 | 0 | 0.999 |
| Mdh2 | 1.83E-11 | 0.042639821 | 0.691 | 0.711 | 1.82E-07 | 0 | 0.971871 |
| Mrfap1 | 1.88E-11 | 0.003739018 | 0.491 | 0.533 | 1.87E-07 | 0 | 0.921201 |
| Fubp1 | 1.88E-11 | 0.089373339 | 0.668 | 0.663 | 1.87E-07 | 0 | 1.007541 |
| Ndufb11 | 2.03E-11 | 0.067884844 | 0.695 | 0.702 | 2.02E-07 | 0 | 0.990028 |
| Cyb5a | 2.10E-11 | 0.093357319 | 0.653 | 0.634 | 2.09E-07 | 0 | 1.029968 |
| Rps25 | 2.23E-11 | 0.03461136 | 1 | 1 | 2.22E-07 | 0 | 1 |
| Cct7 | 2.29E-11 | 0.001887392 | 0.603 | 0.655 | 2.28E-07 | 0 | 0.920611 |
| Camk4 | 2.57E-11 | 0.076111947 | 0.261 | 0.242 | 2.55E-07 | 0 | 1.078512 |

| | | | | | | | |
|---------|----------|-------------|-------|-------|----------|---|----------|
| Coro1a | 2.60E-11 | 0.074005987 | 0.997 | 0.998 | 2.58E-07 | 0 | 0.998998 |
| Snrpb | 2.61E-11 | 0.00088335 | 0.757 | 0.817 | 2.60E-07 | 0 | 0.926561 |
| Nhp211 | 2.77E-11 | 0.005179665 | 0.562 | 0.603 | 2.76E-07 | 0 | 0.932007 |
| Cd47 | 2.85E-11 | 0.107278814 | 0.865 | 0.852 | 2.83E-07 | 0 | 1.015258 |
| Tonsl | 3.28E-11 | 0.019119588 | 0.673 | 0.72 | 3.26E-07 | 0 | 0.934722 |
| Eno1 | 3.30E-11 | 0.096546349 | 0.875 | 0.872 | 3.28E-07 | 0 | 1.00344 |
| Morf4l1 | 3.42E-11 | 0.087307486 | 0.867 | 0.88 | 3.40E-07 | 0 | 0.985227 |
| Ablim1 | 3.66E-11 | 0.024799837 | 0.673 | 0.719 | 3.64E-07 | 0 | 0.936022 |
| Esd | 4.16E-11 | 0.004558096 | 0.425 | 0.465 | 4.13E-07 | 0 | 0.913978 |
| Use1 | 5.49E-11 | 0.000856695 | 0.653 | 0.712 | 5.46E-07 | 0 | 0.917135 |
| Abracl | 6.65E-11 | 0.00761936 | 0.76 | 0.806 | 6.61E-07 | 0 | 0.942928 |
| Arpp19 | 7.56E-11 | 0.017294774 | 0.698 | 0.738 | 7.52E-07 | 0 | 0.945799 |
| Rpl9 | 8.14E-11 | 0.011297443 | 1 | 1 | 8.09E-07 | 0 | 1 |
| Fus | 8.16E-11 | 0.094184114 | 0.834 | 0.826 | 8.11E-07 | 0 | 1.009685 |
| Arf5 | 8.65E-11 | 0.072996881 | 0.827 | 0.842 | 8.60E-07 | 0 | 0.982185 |
| Atp5o | 1.13E-10 | 0.017068343 | 0.719 | 0.768 | 1.13E-06 | 0 | 0.936198 |
| Jund | 1.17E-10 | 0.001081103 | 0.557 | 0.59 | 1.16E-06 | 0 | 0.944068 |
| Spcs2 | 1.28E-10 | 0.042633285 | 0.741 | 0.767 | 1.27E-06 | 0 | 0.966102 |
| Rhoa | 1.36E-10 | 0.006614442 | 0.775 | 0.825 | 1.35E-06 | 0 | 0.939394 |
| Chd4 | 1.39E-10 | 0.005528893 | 0.546 | 0.591 | 1.38E-06 | 0 | 0.923858 |
| Pdia3 | 1.66E-10 | 0.043945385 | 0.715 | 0.746 | 1.65E-06 | 0 | 0.958445 |
| Macf1 | 1.96E-10 | 0.020796194 | 0.495 | 0.529 | 1.94E-06 | 0 | 0.935728 |
| Pim1 | 2.05E-10 | 0.025091508 | 0.279 | 0.257 | 2.04E-06 | 0 | 1.085603 |
| Tcf25 | 2.06E-10 | 0.044242006 | 0.551 | 0.568 | 2.04E-06 | 0 | 0.97007 |
| Smc6 | 2.23E-10 | 0.115980544 | 0.951 | 0.937 | 2.22E-06 | 0 | 1.014941 |
| Dapl1 | 2.90E-10 | 0.174794797 | 0.668 | 0.61 | 2.88E-06 | 0 | 1.095082 |
| Cd5 | 2.99E-10 | 0.040065369 | 0.391 | 0.411 | 2.97E-06 | 0 | 0.951338 |
| Sf3b6 | 3.49E-10 | 0.0155952 | 0.615 | 0.645 | 3.47E-06 | 0 | 0.953488 |
| Gpx4 | 3.91E-10 | 0.045449235 | 0.683 | 0.716 | 3.88E-06 | 0 | 0.953911 |
| Hint1 | 3.99E-10 | 0.069897178 | 0.83 | 0.847 | 3.96E-06 | 0 | 0.979929 |
| Rpl35a | 4.88E-10 | 0.018021607 | 1 | 1 | 4.85E-06 | 0 | 1 |
| Sdf4 | 5.13E-10 | 0.043474978 | 0.599 | 0.602 | 5.10E-06 | 0 | 0.995017 |
| Eif4a2 | 5.36E-10 | 0.069728538 | 0.715 | 0.725 | 5.33E-06 | 0 | 0.986207 |
| Hnrnpa3 | 6.75E-10 | 0.090064873 | 0.815 | 0.815 | 6.71E-06 | 0 | 1 |
| Rpl21 | 7.68E-10 | 0.044910316 | 1 | 1 | 7.63E-06 | 0 | 1 |
| Gm10073 | 8.06E-10 | 0.008522614 | 0.8 | 0.854 | 8.01E-06 | 0 | 0.936768 |
| Cdc37 | 1.05E-09 | 0.043185587 | 0.605 | 0.63 | 1.04E-05 | 0 | 0.960317 |
| Itga4 | 1.52E-09 | 0.07101012 | 0.298 | 0.282 | 1.51E-05 | 0 | 1.056738 |
| Arf1 | 1.73E-09 | 0.035280907 | 0.696 | 0.722 | 1.72E-05 | 0 | 0.963989 |
| Ndufa6 | 1.86E-09 | 0.050464179 | 0.792 | 0.82 | 1.85E-05 | 0 | 0.965854 |
| Dnajc8 | 1.92E-09 | 0.015451384 | 0.61 | 0.649 | 1.91E-05 | 0 | 0.939908 |
| Emg1 | 1.94E-09 | 0.071388913 | 0.799 | 0.811 | 1.93E-05 | 0 | 0.985203 |
| Gdi2 | 1.98E-09 | 0.011967941 | 0.575 | 0.614 | 1.97E-05 | 0 | 0.936482 |
| Apbb1ip | 2.21E-09 | 0.009849986 | 0.593 | 0.639 | 2.20E-05 | 0 | 0.928013 |
| Sf3b1 | 2.39E-09 | 0.049760629 | 0.82 | 0.848 | 2.38E-05 | 0 | 0.966981 |
| Pik3ip1 | 2.87E-09 | 0.05061282 | 0.564 | 0.576 | 2.85E-05 | 0 | 0.979167 |
| Cd3g | 3.15E-09 | 0.037344101 | 0.985 | 0.992 | 3.13E-05 | 0 | 0.992944 |

| | | | | | | | |
|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Phb2 | 3.20E-09 | 0.007257097 | 0.604 | 0.641 | 3.19E-05 | 0 | 0.942278 |
| Cnp | 3.88E-09 | 0.009623612 | 0.623 | 0.666 | 3.86E-05 | 0 | 0.935435 |
| Lat | 4.17E-09 | 0.082809876 | 0.925 | 0.927 | 4.14E-05 | 0 | 0.997843 |
| Fbl | 4.95E-09 | 0.026705164 | 0.659 | 0.689 | 4.92E-05 | 0 | 0.956459 |
| Rpl31 | 5.71E-09 | 0.045866332 | 1 | 1 | 5.68E-05 | 0 | 1 |
| Atp5k | 6.74E-09 | 0.04045843 | 0.678 | 0.704 | 6.70E-05 | 0 | 0.963068 |
| Txk | 7.80E-09 | 0.002350987 | 0.572 | 0.617 | 7.75E-05 | 0 | 0.927066 |
| Tln1 | 8.40E-09 | 0.011132973 | 0.651 | 0.699 | 8.35E-05 | 0 | 0.93133 |
| Gpr183 | 8.90E-09 | 0.035198433 | 0.261 | 0.249 | 8.85E-05 | 0 | 1.048193 |
| Atp5c1 | 9.54E-09 | 0.008210068 | 0.764 | 0.81 | 9.49E-05 | 0 | 0.94321 |
| Srp9 | 1.31E-08 | 0.010772465 | 0.69 | 0.737 | 0.000129908 | 0 | 0.936228 |
| Taf1d | 1.68E-08 | 0.005057041 | 0.364 | 0.402 | 0.000166837 | 0 | 0.905473 |
| Ndufa1 | 1.79E-08 | 0.009493148 | 0.62 | 0.663 | 0.000178236 | 0 | 0.935143 |
| Cdc42 | 1.99E-08 | 0.060708302 | 0.869 | 0.891 | 0.000198191 | 0 | 0.975309 |
| Atp5g1 | 2.02E-08 | 0.040986554 | 0.769 | 0.783 | 0.000201161 | 0 | 0.98212 |
| Eef1a1 | 2.22E-08 | 0.019363949 | 1 | 1 | 0.000220606 | 0 | 1 |
| Slc25a3 | 2.29E-08 | 0.014404941 | 0.773 | 0.82 | 0.000227954 | 0 | 0.942683 |
| Gimap6 | 2.50E-08 | 0.003812239 | 0.777 | 0.821 | 0.000248271 | 0 | 0.946407 |
| Arhgdia | 2.54E-08 | 0.019703743 | 0.69 | 0.726 | 0.000252647 | 0 | 0.950413 |
| Psenen | 2.58E-08 | 0.038289214 | 0.717 | 0.739 | 0.000256821 | 0 | 0.97023 |
| Cap1 | 2.73E-08 | 0.016067945 | 0.752 | 0.795 | 0.000271452 | 0 | 0.945912 |
| Sepw1 | 3.16E-08 | 0.076051535 | 0.952 | 0.952 | 0.000313832 | 0 | 1 |
| Rbm25 | 3.22E-08 | 0.01840369 | 0.699 | 0.742 | 0.00032024 | 0 | 0.942049 |
| 2410015M20Rik | 3.53E-08 | 0.016411074 | 0.699 | 0.739 | 0.000351208 | 0 | 0.945873 |
| Calm1 | 3.95E-08 | 0.086673776 | 0.988 | 0.986 | 0.000393112 | 0 | 1.002028 |
| Btg2 | 4.60E-08 | 0.020844701 | 0.66 | 0.686 | 0.000457681 | 0 | 0.962099 |
| Calm2 | 6.67E-08 | 0.018282022 | 0.748 | 0.784 | 0.000663236 | 0 | 0.954082 |
| Cfl1 | 6.84E-08 | 0.07279458 | 0.995 | 0.996 | 0.000679632 | 0 | 0.998996 |
| Cnn2 | 7.86E-08 | 0.025742866 | 0.86 | 0.897 | 0.000781267 | 0 | 0.958751 |
| Gng5 | 1.19E-07 | 0.058754883 | 0.853 | 0.862 | 0.001183248 | 0 | 0.989559 |
| Tomm7 | 1.22E-07 | 0.001854954 | 0.762 | 0.81 | 0.001214463 | 0 | 0.940741 |
| Slfm2 | 1.35E-07 | 0.063876048 | 0.813 | 0.83 | 0.0013427 | 0 | 0.979518 |
| Hnrnpa1 | 1.38E-07 | 0.024479153 | 0.68 | 0.7 | 0.001368913 | 0 | 0.971429 |
| Cdk2ap2 | 1.43E-07 | 0.083097076 | 0.874 | 0.869 | 0.001421823 | 0 | 1.005754 |
| Skap1 | 1.60E-07 | 0.061422438 | 0.869 | 0.882 | 0.001595131 | 0 | 0.985261 |
| Rbx1 | 1.85E-07 | 0.041799557 | 0.798 | 0.826 | 0.001834805 | 0 | 0.966102 |
| Tpr | 2.75E-07 | 0.057549879 | 0.825 | 0.849 | 0.002730915 | 0 | 0.971731 |
| Hnrnpf | 3.98E-07 | 0.071300211 | 0.972 | 0.972 | 0.003957694 | 0 | 1 |
| Actb | 5.79E-07 | 0.047789524 | 0.999 | 1 | 0.0057556 | 0 | 0.999 |
| Cox6a1 | 5.99E-07 | 0.0419601 | 0.814 | 0.836 | 0.005953483 | 0 | 0.973684 |
| Chd3 | 9.09E-07 | 0.061969337 | 0.716 | 0.715 | 0.009035761 | 0 | 1.001399 |
| Son | 9.75E-07 | 0.006940587 | 0.855 | 0.896 | 0.00969142 | 0 | 0.954241 |
| Cnbp | 1.14E-06 | 0.062804164 | 0.873 | 0.881 | 0.011294527 | 0 | 0.990919 |
| Uba52 | 1.19E-06 | 0.062743272 | 0.996 | 0.996 | 0.011809827 | 0 | 1 |
| Ddx5 | 1.32E-06 | 0.067207186 | 0.984 | 0.99 | 0.013143703 | 0 | 0.993939 |
| Cd53 | 1.32E-06 | 0.044467801 | 0.873 | 0.887 | 0.0131694 | 0 | 0.984216 |
| Eif1 | 1.40E-06 | 0.004414664 | 1 | 0.998 | 0.013913003 | 0 | 1.002004 |

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|-----------|--------|-------------|-------------|-------|-------|-------------|---|----------|
| Tpm3-rs7 | | 1.82E-06 | 0.066297237 | 0.836 | 0.843 | 0.018078364 | 0 | 0.991696 |
| H2afj | | 2.10E-06 | 0.013205295 | 0.775 | 0.816 | 0.020893981 | 0 | 0.949755 |
| Ldha | | 2.11E-06 | 0.066322699 | 0.902 | 0.897 | 0.02096779 | 0 | 1.005574 |
| Atp5f1 | | 2.57E-06 | 0.021407204 | 0.79 | 0.824 | 0.025582512 | 0 | 0.958738 |
| Srsf5 | | 2.69E-06 | 0.019578378 | 0.755 | 0.787 | 0.026737667 | 0 | 0.959339 |
| Rps15 | | 4.90E-06 | 0.008721539 | 1 | 1 | 0.048730271 | 0 | 1 |
| Il7r | | 5.55E-06 | 0.096031263 | 0.633 | 0.614 | 0.055183778 | 0 | 1.030945 |
| Ppib | | 7.44E-06 | 0.005047521 | 0.743 | 0.781 | 0.073982259 | 0 | 0.951344 |
| Aldoa | | 8.56E-06 | 0.044071767 | 0.782 | 0.795 | 0.085062782 | 0 | 0.983648 |
| H3f3b | | 8.93E-06 | 0.050448554 | 0.994 | 0.994 | 0.088751721 | 0 | 1 |
| Tomm20 | | 9.79E-06 | 0.000113202 | 0.835 | 0.875 | 0.097282692 | 0 | 0.954286 |
| Gm11808 | | 1.01E-05 | 0.048007311 | 0.939 | 0.952 | 0.100506138 | 0 | 0.986345 |
| Cox7c | | 1.02E-05 | 0.013282013 | 0.89 | 0.923 | 0.101323608 | 0 | 0.964247 |
| Psma3 | | 1.17E-05 | 0.019148691 | 0.714 | 0.741 | 0.116612087 | 0 | 0.963563 |
| Myl12b | | 1.34E-05 | 0.06900051 | 0.928 | 0.921 | 0.133073208 | 0 | 1.0076 |
| Myeov2 | | 1.34E-05 | 0.015969282 | 0.674 | 0.703 | 0.133648589 | 0 | 0.958748 |
| Rps27a | | 1.35E-05 | 0.026241406 | 1 | 1 | 0.133847951 | 0 | 1 |
| Nme1 | | 1.49E-05 | 0.060856598 | 0.829 | 0.824 | 0.147679464 | 0 | 1.006068 |
| Ppp1ca | | 1.73E-05 | 0.05071884 | 0.895 | 0.899 | 0.171780974 | 0 | 0.995551 |
| Actr3 | | 1.84E-05 | 0.042247084 | 0.914 | 0.929 | 0.183257668 | 0 | 0.983854 |
| Gimap4 | | 1.93E-05 | 0.036724151 | 0.865 | 0.882 | 0.192192003 | 0 | 0.980726 |
| Dynll1 | | 2.20E-05 | 0.017088579 | 0.809 | 0.838 | 0.218205205 | 0 | 0.965394 |
| Rpl30 | | 2.53E-05 | 0.039758885 | 1 | 1 | 0.251642647 | 0 | 1 |
| Hmgb1 | | 2.88E-05 | 0.021166074 | 0.892 | 0.916 | 0.286060215 | 0 | 0.973799 |
| Hnrnpk | | 2.92E-05 | 0.004012083 | 0.87 | 0.905 | 0.290562099 | 0 | 0.961326 |
| Tpm3 | | 4.67E-05 | 0.032858484 | 0.832 | 0.857 | 0.464047507 | 0 | 0.970828 |
| Klf2 | | 5.06E-05 | 0.042306223 | 0.963 | 0.939 | 0.503388134 | 0 | 1.025559 |
| Ucp2 | | 5.56E-05 | 0.006879369 | 0.751 | 0.779 | 0.55279572 | 0 | 0.964056 |
| Ccnd2 | | 6.69E-05 | 0.067198606 | 0.931 | 0.921 | 0.665390318 | 0 | 1.010858 |
| Ptma | | 8.05E-05 | 0.028646108 | 0.994 | 0.994 | 0.800459429 | 0 | 1 |
| Rpl3 | | 8.20E-05 | 0.003762977 | 1 | 1 | 0.815137809 | 0 | 1 |
| Rps3 | | 8.72E-05 | 0.009589196 | 1 | 1 | 0.866726502 | 0 | 1 |
| | Sep-01 | 0.00012014 | 0.028993462 | 0.9 | 0.924 | 1 | 0 | 0.974026 |
| Rpl13a | | 0.000168267 | 0.009806867 | 1 | 1 | 1 | 0 | 1 |
| Rpl10-ps3 | | 0.000200676 | 0.011473044 | 0.777 | 0.81 | 1 | 0 | 0.959259 |
| Eif3e | | 0.000210012 | 0.027081476 | 0.905 | 0.928 | 1 | 0 | 0.975216 |
| Atp5h | | 0.000216175 | 0.034102232 | 0.934 | 0.951 | 1 | 0 | 0.982124 |
| Tma7 | | 0.000240003 | 0.010154824 | 0.937 | 0.959 | 1 | 0 | 0.977059 |
| Serf2 | | 0.000357851 | 6.60E-05 | 0.986 | 0.993 | 1 | 0 | 0.992951 |
| Tceb2 | | 0.000365551 | 0.002882567 | 0.814 | 0.847 | 1 | 0 | 0.961039 |
| Fyb | | 0.000455368 | 0.049425813 | 0.882 | 0.879 | 1 | 0 | 1.003413 |
| Arhgef1 | | 0.000813303 | 0.05095327 | 0.884 | 0.891 | 1 | 0 | 0.992144 |
| Atp5j2 | | 0.000914483 | 0.000468228 | 0.855 | 0.882 | 1 | 0 | 0.969388 |
| Laptm5 | | 0.001296407 | 0.012918988 | 0.885 | 0.91 | 1 | 0 | 0.972527 |
| Lck | | 0.002126187 | 0.008766678 | 0.941 | 0.961 | 1 | 0 | 0.979188 |
| Rbm39 | | 0.002145268 | 0.027031122 | 0.952 | 0.965 | 1 | 0 | 0.986528 |
| Atp5j | | 0.002288504 | 0.019509115 | 0.819 | 0.839 | 1 | 0 | 0.976162 |

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|----------|-------------|-------------|-------|-------|-----------|---|----------|
| Actg1 | 0.002968849 | 0.041231002 | 0.996 | 0.994 | 1 | 0 | 1.002012 |
| Fau | 0.003091095 | 0.022690367 | 1 | 1 | 1 | 0 | 1 |
| Rbm3 | 0.00436511 | 0.025342343 | 0.943 | 0.956 | 1 | 0 | 0.986402 |
| Rpl5 | 0.005543449 | 0.035721638 | 0.999 | 0.998 | 1 | 0 | 1.001002 |
| Prdx1 | 0.006270918 | 0.005282277 | 0.823 | 0.846 | 1 | 0 | 0.972813 |
| Rpl10 | 0.006781863 | 0.021282956 | 1 | 1 | 1 | 0 | 1 |
| Cd8b1 | 0 | 1.152581547 | 0.996 | 0.457 | 0 | 1 | 2.179431 |
| Nkg7 | 0 | 0.965360982 | 0.964 | 0.384 | 0 | 1 | 2.510417 |
| Cd8a | 0 | 0.942907723 | 0.908 | 0.302 | 0 | 1 | 3.006623 |
| Ly6c2 | 7.08E-308 | 0.909885688 | 0.838 | 0.317 | 7.04E-304 | 1 | 2.643533 |
| Ly6c1 | 1.78E-277 | 0.809974911 | 0.742 | 0.223 | 1.77E-273 | 1 | 3.327354 |
| Ctsw | 2.03E-140 | 0.554087069 | 0.725 | 0.364 | 2.02E-136 | 1 | 1.991758 |
| Plac8 | 1.43E-125 | 0.541609251 | 0.592 | 0.25 | 1.42E-121 | 1 | 2.368 |
| Rps18 | 4.87E-106 | 0.113994357 | 1 | 1 | 4.84E-102 | 1 | 1 |
| Ly6a | 6.73E-102 | 0.261578874 | 0.538 | 0.261 | 6.69E-98 | 1 | 2.061303 |
| Rps5 | 3.25E-90 | 0.117648912 | 1 | 1 | 3.23E-86 | 1 | 1 |
| Rpl13 | 4.61E-88 | 0.117705458 | 1 | 1 | 4.58E-84 | 1 | 1 |
| Rpl32 | 5.80E-76 | 0.102137852 | 1 | 1 | 5.77E-72 | 1 | 1 |
| Runx3 | 5.63E-73 | 0.399283307 | 0.523 | 0.275 | 5.59E-69 | 1 | 1.901818 |
| AW112010 | 5.82E-72 | 0.33724594 | 0.937 | 0.8 | 5.78E-68 | 1 | 1.17125 |
| Rps3a1 | 1.96E-65 | 0.102318559 | 1 | 1 | 1.95E-61 | 1 | 1 |
| Klrd1 | 3.25E-65 | 0.390331702 | 0.427 | 0.196 | 3.23E-61 | 1 | 2.178571 |
| Rpl35a | 4.29E-63 | 0.085480551 | 1 | 1 | 4.27E-59 | 1 | 1 |
| Rps28 | 1.91E-61 | 0.091403463 | 1 | 1 | 1.90E-57 | 1 | 1 |
| Ostf1 | 3.99E-60 | 0.305343685 | 0.838 | 0.675 | 3.97E-56 | 1 | 1.241481 |
| Rpl35 | 2.99E-57 | 0.093847699 | 1 | 1 | 2.97E-53 | 1 | 1 |
| Rps8 | 1.33E-56 | 0.097618066 | 1 | 1 | 1.32E-52 | 1 | 1 |
| Rpl23a | 3.49E-56 | 0.103027586 | 1 | 1 | 3.47E-52 | 1 | 1 |
| Rps27 | 5.88E-56 | 0.031246579 | 1 | 1 | 5.84E-52 | 1 | 1 |
| Rps17 | 7.29E-56 | 0.118500599 | 1 | 1 | 7.24E-52 | 1 | 1 |
| Tubb5 | 8.82E-54 | 0.274686765 | 0.941 | 0.844 | 8.76E-50 | 1 | 1.114929 |
| Rpl37 | 9.15E-54 | 0.106404898 | 1 | 1 | 9.09E-50 | 1 | 1 |
| Rps29 | 1.36E-52 | 0.002230426 | 1 | 1 | 1.36E-48 | 1 | 1 |
| Rps15a | 1.60E-50 | 0.076220328 | 1 | 1 | 1.59E-46 | 1 | 1 |
| Rps6 | 8.60E-50 | 0.085253863 | 1 | 1 | 8.55E-46 | 1 | 1 |
| Rpl18a | 1.52E-48 | 0.081259876 | 1 | 1 | 1.51E-44 | 1 | 1 |
| Rps7 | 6.43E-48 | 0.081351946 | 1 | 1 | 6.39E-44 | 1 | 1 |
| Rpl37a | 4.26E-47 | 0.102400043 | 1 | 1 | 4.23E-43 | 1 | 1 |
| Rpl8 | 3.53E-46 | 0.080222146 | 1 | 1 | 3.51E-42 | 1 | 1 |
| Ms4a4b | 4.86E-46 | 0.07782941 | 1 | 0.993 | 4.83E-42 | 1 | 1.007049 |
| Rplp1 | 3.70E-45 | 0.07702451 | 1 | 1 | 3.68E-41 | 1 | 1 |
| Rpl18 | 8.26E-45 | 0.096688903 | 1 | 1 | 8.21E-41 | 1 | 1 |
| Rps24 | 6.90E-44 | 0.069577323 | 1 | 1 | 6.86E-40 | 1 | 1 |
| Rpl4 | 1.55E-43 | 0.098571684 | 1 | 1 | 1.54E-39 | 1 | 1 |
| Glipr2 | 4.61E-42 | 0.301447745 | 0.494 | 0.311 | 4.59E-38 | 1 | 1.588424 |
| Rpl9 | 7.51E-42 | 0.085493774 | 1 | 1 | 7.46E-38 | 1 | 1 |
| Rplp2 | 2.20E-41 | 0.07465159 | 1 | 1 | 2.18E-37 | 1 | 1 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Rpl11 | 1.13E-38 | 0.090669474 | 1 | 1 | 1.12E-34 | 1 | 1 |
| Rpl41 | 1.26E-38 | 0.070235444 | 1 | 1 | 1.25E-34 | 1 | 1 |
| Rpl23 | 4.00E-38 | 0.087965264 | 1 | 1 | 3.98E-34 | 1 | 1 |
| Acp5 | 1.69E-37 | 0.269998182 | 0.656 | 0.486 | 1.68E-33 | 1 | 1.349794 |
| Fam189b | 2.44E-37 | 0.262938423 | 0.697 | 0.556 | 2.43E-33 | 1 | 1.253597 |
| S100a11 | 8.78E-37 | 0.132793811 | 0.622 | 0.463 | 8.73E-33 | 1 | 1.343413 |
| Rps2 | 1.25E-36 | 0.062917207 | 1 | 1 | 1.25E-32 | 1 | 1 |
| G0s2 | 1.78E-36 | 0.277799993 | 0.266 | 0.119 | 1.77E-32 | 1 | 2.235294 |
| Rps10 | 5.22E-36 | 0.091410744 | 1 | 1 | 5.19E-32 | 1 | 1 |
| Rpl36a | 5.59E-36 | 0.08672348 | 1 | 1 | 5.56E-32 | 1 | 1 |
| Rps3 | 4.81E-35 | 0.073975028 | 1 | 1 | 4.78E-31 | 1 | 1 |
| Gm10260 | 7.93E-35 | 0.109740868 | 1 | 1 | 7.88E-31 | 1 | 1 |
| Rplp0 | 8.54E-35 | 0.065365544 | 1 | 1 | 8.49E-31 | 1 | 1 |
| Rpl17 | 2.25E-34 | 0.071535665 | 1 | 1 | 2.23E-30 | 1 | 1 |
| Ifitm10 | 5.98E-33 | 0.225823041 | 0.251 | 0.115 | 5.95E-29 | 1 | 2.182609 |
| Arl4c | 3.09E-32 | 0.179961509 | 0.948 | 0.855 | 3.07E-28 | 1 | 1.108772 |
| Gm8730 | 1.80E-31 | 0.061236614 | 1 | 1 | 1.79E-27 | 1 | 1 |
| Rps20 | 3.52E-31 | 0.085688747 | 1 | 1 | 3.50E-27 | 1 | 1 |
| Hspe1 | 1.63E-30 | 0.200361932 | 0.917 | 0.821 | 1.62E-26 | 1 | 1.116931 |
| Rpl28 | 5.01E-30 | 0.085693489 | 1 | 1 | 4.98E-26 | 1 | 1 |
| Rps25 | 5.33E-30 | 0.076285096 | 1 | 1 | 5.30E-26 | 1 | 1 |
| Klk8 | 1.77E-29 | 0.239711546 | 0.716 | 0.573 | 1.76E-25 | 1 | 1.249564 |
| Rps19 | 1.87E-29 | 0.025338159 | 1 | 1 | 1.86E-25 | 1 | 1 |
| Rps23 | 2.28E-29 | 0.06061331 | 1 | 1 | 2.26E-25 | 1 | 1 |
| B4galnt1 | 6.26E-29 | 0.217593414 | 0.783 | 0.647 | 6.23E-25 | 1 | 1.210201 |
| Ms4a4c | 7.67E-29 | 0.266494353 | 0.552 | 0.384 | 7.62E-25 | 1 | 1.4375 |
| Ahnak | 1.11E-28 | 0.199524661 | 0.321 | 0.186 | 1.10E-24 | 1 | 1.725806 |
| Gnb2l1 | 1.92E-28 | 0.111064362 | 0.999 | 0.996 | 1.91E-24 | 1 | 1.003012 |
| Rps14 | 4.35E-28 | 0.057238811 | 1 | 1 | 4.32E-24 | 1 | 1 |
| Cd226 | 6.37E-28 | 0.217978598 | 0.258 | 0.132 | 6.33E-24 | 1 | 1.954545 |
| Rps16 | 2.58E-27 | 0.035271702 | 1 | 1 | 2.57E-23 | 1 | 1 |
| Thy1 | 2.82E-27 | 0.191454359 | 0.848 | 0.714 | 2.80E-23 | 1 | 1.187675 |
| Rpl6 | 3.00E-27 | 0.075859267 | 1 | 1 | 2.98E-23 | 1 | 1 |
| Klf2 | 9.46E-27 | 0.121598259 | 0.982 | 0.935 | 9.40E-23 | 1 | 1.050267 |
| Rps15 | 7.85E-26 | 0.064418063 | 1 | 1 | 7.80E-22 | 1 | 1 |
| Saraf | 1.04E-25 | 0.212582212 | 0.802 | 0.688 | 1.04E-21 | 1 | 1.165698 |
| Rpl13a | 1.17E-25 | 0.046359518 | 1 | 1 | 1.16E-21 | 1 | 1 |
| Sidt1 | 1.21E-25 | 0.219538057 | 0.35 | 0.209 | 1.20E-21 | 1 | 1.674641 |
| Rpl3 | 2.31E-24 | 0.065282018 | 1 | 1 | 2.30E-20 | 1 | 1 |
| Tmsb10 | 5.85E-24 | 0.050208674 | 1 | 1 | 5.81E-20 | 1 | 1 |
| Slco3a1 | 1.20E-23 | 0.183719332 | 0.253 | 0.136 | 1.19E-19 | 1 | 1.860294 |
| Rps4x | 2.52E-23 | 0.063637017 | 1 | 1 | 2.51E-19 | 1 | 1 |
| Dapl1 | 2.62E-23 | 0.241244892 | 0.721 | 0.599 | 2.61E-19 | 1 | 1.203673 |
| Rpl36 | 4.02E-22 | 0.05259088 | 1 | 1 | 4.00E-18 | 1 | 1 |
| Rpl38 | 4.37E-21 | 0.057601201 | 1 | 1 | 4.34E-17 | 1 | 1 |
| Rpl22l1 | 6.49E-21 | 0.103788975 | 0.998 | 0.996 | 6.46E-17 | 1 | 1.002008 |
| Neur13 | 7.70E-21 | 0.182508213 | 0.258 | 0.147 | 7.66E-17 | 1 | 1.755102 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Ctsd | 1.40E-20 | 0.194812264 | 0.645 | 0.517 | 1.39E-16 | 1 | 1.247582 |
| Rpl15 | 3.55E-20 | 0.077403284 | 1 | 1 | 3.53E-16 | 1 | 1 |
| Rras2 | 1.14E-19 | 0.180967444 | 0.287 | 0.176 | 1.13E-15 | 1 | 1.630682 |
| Gramd3 | 1.55E-19 | 0.195946216 | 0.608 | 0.468 | 1.54E-15 | 1 | 1.299145 |
| Rpl14 | 1.90E-19 | 0.041640693 | 1 | 1 | 1.89E-15 | 1 | 1 |
| Rpl12 | 3.96E-19 | 0.032108229 | 1 | 1 | 3.94E-15 | 1 | 1 |
| Dpp4 | 4.10E-19 | 0.184778122 | 0.323 | 0.206 | 4.08E-15 | 1 | 1.567961 |
| Rpl34 | 4.38E-19 | 0.054166493 | 1 | 1 | 4.35E-15 | 1 | 1 |
| Eef1b2 | 1.29E-18 | 0.09788243 | 0.996 | 0.992 | 1.28E-14 | 1 | 1.004032 |
| Arl6ip5 | 1.51E-18 | 0.163971989 | 0.798 | 0.688 | 1.50E-14 | 1 | 1.159884 |
| Dnajc15 | 3.41E-18 | 0.195136066 | 0.426 | 0.307 | 3.39E-14 | 1 | 1.387622 |
| Rpsa | 3.87E-18 | 0.061253258 | 1 | 1 | 3.84E-14 | 1 | 1 |
| Rps9 | 4.45E-18 | 0.054315419 | 1 | 1 | 4.43E-14 | 1 | 1 |
| Slc25a4 | 7.23E-18 | 0.172033184 | 0.752 | 0.638 | 7.18E-14 | 1 | 1.178683 |
| Cst7 | 1.12E-17 | 0.161576697 | 0.266 | 0.161 | 1.12E-13 | 1 | 1.652174 |
| AB124611 | 1.92E-17 | 0.187789979 | 0.393 | 0.273 | 1.91E-13 | 1 | 1.43956 |
| Gtf2i | 3.89E-17 | 0.182544246 | 0.543 | 0.414 | 3.87E-13 | 1 | 1.311594 |
| Selplg | 6.87E-17 | 0.153798272 | 0.898 | 0.833 | 6.83E-13 | 1 | 1.078031 |
| Tcp11l2 | 8.64E-17 | 0.160089483 | 0.458 | 0.33 | 8.59E-13 | 1 | 1.387879 |
| Xrn2 | 1.81E-16 | 0.166286325 | 0.752 | 0.647 | 1.80E-12 | 1 | 1.162287 |
| Rps27a | 7.06E-16 | 0.04112949 | 1 | 1 | 7.02E-12 | 1 | 1 |
| Rpl39 | 9.07E-16 | 0.044196697 | 1 | 1 | 9.01E-12 | 1 | 1 |
| Rpl10a | 1.73E-15 | 0.062435271 | 1 | 1 | 1.72E-11 | 1 | 1 |
| Eef1a1 | 8.94E-15 | 0.050227699 | 1 | 1 | 8.88E-11 | 1 | 1 |
| Rpl31 | 1.62E-14 | 0.052996359 | 1 | 1 | 1.61E-10 | 1 | 1 |
| Fam46a | 2.18E-14 | 0.186153959 | 0.253 | 0.162 | 2.17E-10 | 1 | 1.561728 |
| Rpl19 | 5.85E-14 | 0.037249695 | 1 | 1 | 5.81E-10 | 1 | 1 |
| Evl | 2.52E-13 | 0.129807433 | 0.823 | 0.728 | 2.51E-09 | 1 | 1.130495 |
| Tapbpl | 3.22E-13 | 0.165366502 | 0.369 | 0.263 | 3.20E-09 | 1 | 1.403042 |
| Ptpn22 | 1.74E-12 | 0.127811405 | 0.356 | 0.261 | 1.73E-08 | 1 | 1.363985 |
| BC094916 | 1.84E-12 | 0.098489225 | 0.365 | 0.277 | 1.83E-08 | 1 | 1.31769 |
| Snrpg | 1.97E-12 | 0.105664846 | 0.967 | 0.949 | 1.96E-08 | 1 | 1.018967 |
| Tagln2 | 2.15E-12 | 0.138709503 | 0.765 | 0.669 | 2.14E-08 | 1 | 1.143498 |
| Smap2 | 2.75E-12 | 0.162183067 | 0.445 | 0.343 | 2.73E-08 | 1 | 1.297376 |
| Tdrp | 3.19E-12 | 0.163007586 | 0.306 | 0.214 | 3.17E-08 | 1 | 1.429907 |
| Eef2 | 1.28E-11 | 0.056433277 | 1 | 1 | 1.27E-07 | 1 | 1 |
| Hpcal1 | 1.54E-11 | 0.151975915 | 0.414 | 0.315 | 1.53E-07 | 1 | 1.314286 |
| Rps26 | 3.20E-11 | 0.023822727 | 1 | 1 | 3.18E-07 | 1 | 1 |
| Sell | 3.66E-11 | 0.119331553 | 0.796 | 0.704 | 3.64E-07 | 1 | 1.130682 |
| Stat4 | 5.05E-11 | 0.135552376 | 0.317 | 0.228 | 5.02E-07 | 1 | 1.390351 |
| Klf3 | 5.10E-11 | 0.152344414 | 0.542 | 0.436 | 5.07E-07 | 1 | 1.243119 |
| Sgk1 | 5.50E-11 | 0.159875813 | 0.383 | 0.288 | 5.46E-07 | 1 | 1.329861 |
| Themis | 5.97E-11 | 0.152094666 | 0.342 | 0.249 | 5.93E-07 | 1 | 1.373494 |
| Ifngr1 | 9.42E-11 | 0.144551516 | 0.534 | 0.431 | 9.36E-07 | 1 | 1.238979 |
| Cd7 | 9.45E-11 | 0.124789582 | 0.341 | 0.254 | 9.39E-07 | 1 | 1.34252 |
| Slamf6 | 9.54E-11 | 0.013508353 | 0.428 | 0.371 | 9.48E-07 | 1 | 1.153639 |
| Rpl27a | 1.17E-10 | 0.050617815 | 1 | 1 | 1.16E-06 | 1 | 1 |

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|------------|----------|-------------|-------|-------|-------------|---|----------|
| Gimap5 | 1.19E-10 | 0.148316876 | 0.487 | 0.41 | 1.19E-06 | 1 | 1.187805 |
| Eef1g | 1.81E-10 | 0.081007834 | 0.994 | 0.989 | 1.80E-06 | 1 | 1.005056 |
| Cmah | 2.06E-10 | 0.138741124 | 0.357 | 0.261 | 2.05E-06 | 1 | 1.367816 |
| Fam204a | 2.24E-10 | 0.01327428 | 0.306 | 0.274 | 2.22E-06 | 1 | 1.116788 |
| H2afz | 2.45E-10 | 0.097253424 | 0.909 | 0.853 | 2.43E-06 | 1 | 1.065651 |
| Tuba1b | 2.70E-10 | 0.123088121 | 0.836 | 0.767 | 2.68E-06 | 1 | 1.089961 |
| Rps21 | 3.64E-10 | 0.043680076 | 1 | 1 | 3.62E-06 | 1 | 1 |
| Hcst | 5.87E-10 | 0.104561202 | 0.903 | 0.857 | 5.83E-06 | 1 | 1.053676 |
| Txk | 6.12E-10 | 0.11963485 | 0.679 | 0.58 | 6.08E-06 | 1 | 1.17069 |
| Zbtb7a | 6.63E-10 | 0.109822356 | 0.394 | 0.312 | 6.59E-06 | 1 | 1.262821 |
| Traf1 | 9.63E-10 | 0.075197024 | 0.356 | 0.284 | 9.57E-06 | 1 | 1.253521 |
| Cox8a | 9.94E-10 | 0.102394018 | 0.951 | 0.92 | 9.88E-06 | 1 | 1.033696 |
| Tpst2 | 1.34E-09 | 0.135423706 | 0.453 | 0.364 | 1.33E-05 | 1 | 1.244505 |
| Il10rb | 2.19E-09 | 0.121498725 | 0.293 | 0.218 | 2.17E-05 | 1 | 1.344037 |
| Rps27rt | 2.19E-09 | 0.022121233 | 0.999 | 0.999 | 2.18E-05 | 1 | 1 |
| Fam58b | 2.31E-09 | 0.126582163 | 0.307 | 0.234 | 2.30E-05 | 1 | 1.311966 |
| Tubb4b | 2.48E-09 | 0.125766132 | 0.558 | 0.462 | 2.46E-05 | 1 | 1.207792 |
| Jak1 | 2.90E-09 | 0.114878821 | 0.877 | 0.838 | 2.88E-05 | 1 | 1.046539 |
| mt-Nd4 | 3.05E-09 | 0.064921658 | 0.995 | 0.988 | 3.03E-05 | 1 | 1.007085 |
| Rpl24 | 4.12E-09 | 0.047408099 | 1 | 1 | 4.09E-05 | 1 | 1 |
| Rpl30 | 4.38E-09 | 0.034270627 | 1 | 1 | 4.36E-05 | 1 | 1 |
| Rpl10 | 4.94E-09 | 0.034316484 | 1 | 1 | 4.91E-05 | 1 | 1 |
| Phgdh | 4.94E-09 | 0.032086275 | 0.371 | 0.321 | 4.91E-05 | 1 | 1.155763 |
| Wdr89 | 7.48E-09 | 0.072553591 | 0.992 | 0.984 | 7.43E-05 | 1 | 1.00813 |
| Rgcc | 7.86E-09 | 0.13100108 | 0.329 | 0.245 | 7.81E-05 | 1 | 1.342857 |
| Gm10073 | 8.61E-09 | 0.089680656 | 0.887 | 0.822 | 8.56E-05 | 1 | 1.079075 |
| Rpl23a-ps3 | 9.37E-09 | 0.090827752 | 0.968 | 0.942 | 9.31E-05 | 1 | 1.027601 |
| Fau | 9.71E-09 | 0.036994328 | 1 | 1 | 9.65E-05 | 1 | 1 |
| Rpl5 | 1.41E-08 | 0.064010743 | 0.999 | 0.998 | 0.000140169 | 1 | 1.001002 |
| Rpl7a | 1.62E-08 | 0.07281171 | 0.998 | 0.995 | 0.000161051 | 1 | 1.003015 |
| Il7r | 1.70E-08 | 0.070349345 | 0.686 | 0.599 | 0.000169456 | 1 | 1.145242 |
| Rnaseh2c | 2.50E-08 | 0.032435991 | 0.342 | 0.307 | 0.000248853 | 1 | 1.114007 |
| Bin2 | 2.69E-08 | 0.108259219 | 0.764 | 0.685 | 0.000267545 | 1 | 1.115328 |
| Mrto4 | 2.81E-08 | 0.025617399 | 0.32 | 0.285 | 0.000279401 | 1 | 1.122807 |
| Rac2 | 2.96E-08 | 0.039555876 | 0.996 | 0.991 | 0.000294454 | 1 | 1.005045 |
| Rnf138 | 3.74E-08 | 0.119043345 | 0.376 | 0.315 | 0.000371603 | 1 | 1.193651 |
| Gm10076 | 6.88E-08 | 0.087694274 | 0.955 | 0.936 | 0.00068421 | 1 | 1.020299 |
| Clec2i | 9.47E-08 | 0.092622615 | 0.336 | 0.265 | 0.000941621 | 1 | 1.267925 |
| Top2b | 1.39E-07 | 0.119318483 | 0.606 | 0.523 | 0.001386071 | 1 | 1.1587 |
| Tpm4 | 1.58E-07 | 0.06301031 | 0.361 | 0.299 | 0.001567293 | 1 | 1.207358 |
| Rps13 | 2.16E-07 | 0.040820608 | 1 | 1 | 0.00214793 | 1 | 1 |
| mt-Nd1 | 2.76E-07 | 0.006954864 | 1 | 1 | 0.002741496 | 1 | 1 |
| Fam169b | 2.80E-07 | 0.024605875 | 0.367 | 0.323 | 0.002781752 | 1 | 1.136223 |
| Hspd1 | 3.16E-07 | 0.008380779 | 0.512 | 0.471 | 0.003138502 | 1 | 1.087049 |
| Id2 | 4.82E-07 | 0.07696279 | 0.428 | 0.359 | 0.004792751 | 1 | 1.192201 |
| Peli1 | 6.19E-07 | 0.112512943 | 0.699 | 0.648 | 0.006154368 | 1 | 1.078704 |
| Tpt1 | 6.27E-07 | 0.02672443 | 1 | 1 | 0.006231585 | 1 | 1 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Sike1 | 6.53E-07 | 0.114443806 | 0.363 | 0.304 | 0.006488418 | 1 | 1.194079 |
| Gm8797 | 7.10E-07 | 0.030984721 | 0.27 | 0.246 | 0.00705838 | 1 | 1.097561 |
| Rab8a | 8.95E-07 | 0.113415698 | 0.512 | 0.454 | 0.008893547 | 1 | 1.127753 |
| Ly6e | 1.26E-06 | 0.108186194 | 0.426 | 0.347 | 0.012484895 | 1 | 1.227666 |
| Atp11b | 1.40E-06 | 0.08445815 | 0.452 | 0.387 | 0.013894095 | 1 | 1.167959 |
| Ttc3 | 1.66E-06 | 0.114971976 | 0.366 | 0.294 | 0.016536639 | 1 | 1.244898 |
| Sec61b | 1.86E-06 | 0.087311365 | 0.876 | 0.833 | 0.018438797 | 1 | 1.051621 |
| Myc | 2.00E-06 | 0.026007789 | 0.266 | 0.231 | 0.019834907 | 1 | 1.151515 |
| Gimap7 | 2.10E-06 | 0.085569722 | 0.601 | 0.521 | 0.02090704 | 1 | 1.153551 |
| Pld3 | 2.85E-06 | 0.097912709 | 0.312 | 0.243 | 0.028332431 | 1 | 1.283951 |
| Ifi27 | 2.88E-06 | 0.086365588 | 0.62 | 0.541 | 0.028668956 | 1 | 1.146026 |
| Ubal2 | 3.90E-06 | 0.098780778 | 0.529 | 0.45 | 0.038756689 | 1 | 1.175556 |
| Pdlim1 | 3.95E-06 | 0.064997386 | 0.346 | 0.292 | 0.039261621 | 1 | 1.184932 |
| Nop58 | 4.65E-06 | 0.010291751 | 0.402 | 0.367 | 0.04621981 | 1 | 1.095368 |
| Rpl21 | 5.32E-06 | 0.021465263 | 1 | 1 | 0.052845202 | 1 | 1 |
| H2-Q7 | 5.66E-06 | 0.099026994 | 0.668 | 0.6 | 0.056285564 | 1 | 1.113333 |
| Lfng | 5.94E-06 | 0.101822933 | 0.615 | 0.542 | 0.059042386 | 1 | 1.134686 |
| Dkc1 | 6.24E-06 | 0.044118764 | 0.409 | 0.359 | 0.062057436 | 1 | 1.139276 |
| Prelid2 | 7.55E-06 | 0.098522979 | 0.26 | 0.198 | 0.075073918 | 1 | 1.313131 |
| Hibadh | 7.68E-06 | 0.021371257 | 0.26 | 0.23 | 0.076311553 | 1 | 1.130435 |
| Snrpd3 | 8.26E-06 | 0.057994788 | 0.785 | 0.718 | 0.082122557 | 1 | 1.093315 |
| Trmt112 | 8.33E-06 | 0.090336297 | 0.692 | 0.654 | 0.082791538 | 1 | 1.058104 |
| Dpcd | 8.85E-06 | 0.104683091 | 0.323 | 0.254 | 0.087963863 | 1 | 1.271654 |
| Dtx1 | 1.17E-05 | 0.084292521 | 0.256 | 0.199 | 0.115944975 | 1 | 1.286432 |
| Gatad2a | 1.35E-05 | 0.081745382 | 0.285 | 0.232 | 0.134348183 | 1 | 1.228448 |
| Arpc1b | 1.53E-05 | 0.053431204 | 0.97 | 0.954 | 0.151658614 | 1 | 1.016771 |
| Rps12 | 1.53E-05 | 0.059950482 | 0.999 | 0.999 | 0.15179305 | 1 | 1 |
| 2210016F16Rik | 1.56E-05 | 0.022569635 | 0.299 | 0.275 | 0.154638695 | 1 | 1.087273 |
| Fam111a | 1.56E-05 | 0.080687073 | 0.297 | 0.237 | 0.15535793 | 1 | 1.253165 |
| Chtf8 | 1.63E-05 | 0.00568277 | 0.252 | 0.242 | 0.16206651 | 1 | 1.041322 |
| Snx4 | 1.74E-05 | 0.034073582 | 0.292 | 0.261 | 0.173445342 | 1 | 1.118774 |
| Bola2 | 1.92E-05 | 0.091863523 | 0.788 | 0.739 | 0.190736028 | 1 | 1.066306 |
| Arhgap9 | 2.25E-05 | 0.022998387 | 0.577 | 0.526 | 0.223780897 | 1 | 1.096958 |
| Mphosph10 | 2.52E-05 | 0.034203804 | 0.356 | 0.315 | 0.250060616 | 1 | 1.130159 |
| Eif3h | 2.63E-05 | 0.065620856 | 0.97 | 0.956 | 0.261847793 | 1 | 1.014644 |
| Prdx6 | 2.74E-05 | 0.076331394 | 0.727 | 0.662 | 0.27218744 | 1 | 1.098187 |
| Hsd11b1 | 3.30E-05 | 0.050158244 | 0.321 | 0.278 | 0.328212679 | 1 | 1.154676 |
| Gm8186 | 3.41E-05 | 0.082721592 | 0.412 | 0.354 | 0.338470795 | 1 | 1.163842 |
| Tuba1a | 3.64E-05 | 0.102398421 | 0.536 | 0.474 | 0.361494578 | 1 | 1.130802 |
| Anxa6 | 4.39E-05 | 0.061514554 | 0.652 | 0.585 | 0.43598921 | 1 | 1.11453 |
| Gm10020 | 4.55E-05 | 0.0894918 | 0.481 | 0.419 | 0.451966373 | 1 | 1.147971 |
| Zcchc11 | 5.89E-05 | 0.065029199 | 0.373 | 0.318 | 0.585359998 | 1 | 1.172956 |
| Naca | 6.01E-05 | 0.035395074 | 0.998 | 0.998 | 0.597541409 | 1 | 1 |
| Mrpl34 | 6.76E-05 | 0.036336576 | 0.357 | 0.32 | 0.671666917 | 1 | 1.115625 |
| Mettl1 | 7.06E-05 | 0.053041747 | 0.282 | 0.241 | 0.701304007 | 1 | 1.170124 |
| Rbm22 | 7.65E-05 | 0.025294538 | 0.311 | 0.288 | 0.760832223 | 1 | 1.079861 |
| Atpif1 | 8.11E-05 | 0.008124424 | 0.344 | 0.317 | 0.806585303 | 1 | 1.085174 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| H2afv | 0.000103418 | 0.025223025 | 0.565 | 0.516 | 1 | 1 | 1.094961 |
| Rpl27 | 0.000120336 | 0.027950834 | 1 | 1 | 1 | 1 | 1 |
| Ubac2 | 0.000125075 | 0.061331074 | 0.464 | 0.404 | 1 | 1 | 1.148515 |
| Rpl26 | 0.00013384 | 0.030704034 | 1 | 1 | 1 | 1 | 1 |
| Pik3cd | 0.000162458 | 0.036063325 | 0.351 | 0.315 | 1 | 1 | 1.114286 |
| Wnk1 | 0.000162602 | 0.008566114 | 0.491 | 0.458 | 1 | 1 | 1.072052 |
| Pfkip | 0.000199277 | 0.034924013 | 0.312 | 0.282 | 1 | 1 | 1.106383 |
| Nfx1 | 0.000201389 | 0.015761727 | 0.255 | 0.241 | 1 | 1 | 1.058091 |
| Vps37b | 0.000205835 | 0.016802309 | 0.306 | 0.282 | 1 | 1 | 1.085106 |
| Ing1 | 0.000223798 | 0.045023223 | 0.273 | 0.239 | 1 | 1 | 1.142259 |
| Wdr43 | 0.000238741 | 0.00750985 | 0.469 | 0.437 | 1 | 1 | 1.073227 |
| Usp25 | 0.000245148 | 0.017903291 | 0.266 | 0.247 | 1 | 1 | 1.076923 |
| Hsp90ab1 | 0.000248526 | 0.027708066 | 0.944 | 0.933 | 1 | 1 | 1.011179 |
| Sf3b4 | 0.000251595 | 0.016258775 | 0.337 | 0.311 | 1 | 1 | 1.083601 |
| Phf20 | 0.000273474 | 0.055687678 | 0.259 | 0.224 | 1 | 1 | 1.15625 |
| Eef1e1 | 0.000287756 | 0.000261223 | 0.268 | 0.254 | 1 | 1 | 1.055118 |
| Rsl24d1 | 0.000319539 | 0.043016364 | 0.282 | 0.248 | 1 | 1 | 1.137097 |
| Fgfr1op2 | 0.000365568 | 0.08259959 | 0.5 | 0.436 | 1 | 1 | 1.146789 |
| Sec11c | 0.00037785 | 0.060700563 | 0.541 | 0.483 | 1 | 1 | 1.120083 |
| Dnajc7 | 0.000387538 | 0.008754651 | 0.465 | 0.435 | 1 | 1 | 1.068966 |
| Wipf1 | 0.000431066 | 0.022253391 | 0.287 | 0.264 | 1 | 1 | 1.087121 |
| Npm3 | 0.000462003 | 0.08204303 | 0.724 | 0.679 | 1 | 1 | 1.066274 |
| Paip2 | 0.000489095 | 0.060433096 | 0.691 | 0.631 | 1 | 1 | 1.095087 |
| Cox7a2l | 0.000544537 | 0.057857543 | 0.982 | 0.975 | 1 | 1 | 1.007179 |
| Zfos1 | 0.000545193 | 0.086811383 | 0.54 | 0.482 | 1 | 1 | 1.120332 |
| Slbp | 0.00064236 | 0.081830787 | 0.36 | 0.31 | 1 | 1 | 1.16129 |
| Itga4 | 0.000656104 | 0.026398421 | 0.312 | 0.279 | 1 | 1 | 1.11828 |
| Hspa9 | 0.00065842 | 0.02132919 | 0.474 | 0.434 | 1 | 1 | 1.092166 |
| Ssh2 | 0.000799003 | 0.066317939 | 0.549 | 0.488 | 1 | 1 | 1.125 |
| Rad23b | 0.000968461 | 0.001130814 | 0.309 | 0.293 | 1 | 1 | 1.054608 |
| Ehd3 | 0.001006545 | 0.05044435 | 0.276 | 0.25 | 1 | 1 | 1.104 |
| Npm1 | 0.001056868 | 0.024534116 | 0.994 | 0.987 | 1 | 1 | 1.007092 |
| Dennd2d | 0.001141288 | 0.01388304 | 0.299 | 0.286 | 1 | 1 | 1.045455 |
| Sh3gl1 | 0.001266865 | 0.012580132 | 0.254 | 0.238 | 1 | 1 | 1.067227 |
| Pdcd6 | 0.001316343 | 0.009714073 | 0.534 | 0.5 | 1 | 1 | 1.068 |
| Mrps18b | 0.001356338 | 0.030081741 | 0.256 | 0.232 | 1 | 1 | 1.103448 |
| Gpr18 | 0.001382415 | 0.061141609 | 0.376 | 0.328 | 1 | 1 | 1.146341 |
| Tnks2 | 0.001398416 | 0.021664912 | 0.26 | 0.238 | 1 | 1 | 1.092437 |
| Mif | 0.001428737 | 0.052922975 | 0.85 | 0.812 | 1 | 1 | 1.046798 |
| Exosc4 | 0.001447996 | 0.005499803 | 0.27 | 0.263 | 1 | 1 | 1.026616 |
| 4930453N24Rik | 0.001477668 | 0.080535254 | 0.349 | 0.302 | 1 | 1 | 1.155629 |
| Exosc8 | 0.001536616 | 0.010184745 | 0.38 | 0.366 | 1 | 1 | 1.038251 |
| Atf7ip | 0.001543366 | 0.059092654 | 0.442 | 0.393 | 1 | 1 | 1.124682 |
| Med30 | 0.001707476 | 0.033686141 | 0.298 | 0.27 | 1 | 1 | 1.103704 |
| Ablim1 | 0.001785229 | 0.019577591 | 0.739 | 0.695 | 1 | 1 | 1.063309 |
| Cdv3 | 0.00186024 | 0.046634996 | 0.289 | 0.254 | 1 | 1 | 1.137795 |
| Nhp2 | 0.002052073 | 0.077031817 | 0.529 | 0.473 | 1 | 1 | 1.118393 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Pik3ip1 | 0.002162748 | 0.080811866 | 0.612 | 0.56 | 1 | 1 | 1.092857 |
| Trappc6a | 0.002200995 | 0.072346362 | 0.348 | 0.31 | 1 | 1 | 1.122581 |
| Gadd45gip1 | 0.002246958 | 0.027914638 | 0.303 | 0.279 | 1 | 1 | 1.086022 |
| Tcf3 | 0.002256562 | 0.043417906 | 0.258 | 0.225 | 1 | 1 | 1.146667 |
| Gltscr2 | 0.002541448 | 0.047688048 | 0.935 | 0.909 | 1 | 1 | 1.028603 |
| Vasp | 0.002668211 | 0.050570377 | 0.846 | 0.806 | 1 | 1 | 1.049628 |
| Selt | 0.002756391 | 0.064639671 | 0.309 | 0.273 | 1 | 1 | 1.131868 |
| Psmc4 | 0.002889887 | 0.021728097 | 0.437 | 0.409 | 1 | 1 | 1.06846 |
| Rps18-ps3 | 0.003032038 | 0.068309067 | 0.723 | 0.676 | 1 | 1 | 1.069527 |
| Rpl9-ps6 | 0.003114775 | 0.063254794 | 0.371 | 0.321 | 1 | 1 | 1.155763 |
| 1810037117Rik | 0.00328989 | 0.061126939 | 0.623 | 0.569 | 1 | 1 | 1.094903 |
| Fam78a | 0.003302471 | 0.034384782 | 0.418 | 0.381 | 1 | 1 | 1.097113 |
| Ssbp1 | 0.003353979 | 0.008743212 | 0.392 | 0.376 | 1 | 1 | 1.042553 |
| Eif4e2 | 0.003567852 | 0.007026733 | 0.326 | 0.307 | 1 | 1 | 1.061889 |
| Pcif1 | 0.003835674 | 0.051142097 | 0.342 | 0.301 | 1 | 1 | 1.136213 |
| Tmem71 | 0.003885624 | 0.012065258 | 0.395 | 0.369 | 1 | 1 | 1.070461 |
| Arrb2 | 0.003990554 | 0.00987048 | 0.378 | 0.365 | 1 | 1 | 1.035616 |
| Rpl36al | 0.004041351 | 0.008619001 | 0.989 | 0.988 | 1 | 1 | 1.001012 |
| Pitpna | 0.004202546 | 0.024714259 | 0.477 | 0.443 | 1 | 1 | 1.076749 |
| Mrps28 | 0.004220016 | 0.007663269 | 0.251 | 0.234 | 1 | 1 | 1.07265 |
| Psme1 | 0.00425637 | 0.054765135 | 0.903 | 0.881 | 1 | 1 | 1.024972 |
| Fli1 | 0.004267397 | 0.002577287 | 0.264 | 0.252 | 1 | 1 | 1.047619 |
| Safb2 | 0.004435601 | 0.024534284 | 0.306 | 0.289 | 1 | 1 | 1.058824 |
| Gtpbp4 | 0.004591176 | 0.010434769 | 0.4 | 0.375 | 1 | 1 | 1.066667 |
| Tfam | 0.004735484 | 0.021629789 | 0.274 | 0.26 | 1 | 1 | 1.053846 |
| Tmem261 | 0.004936232 | 0.074497896 | 0.438 | 0.387 | 1 | 1 | 1.131783 |
| Brix1 | 0.005030475 | 0.003075231 | 0.293 | 0.279 | 1 | 1 | 1.050179 |
| Klhl6 | 0.00527461 | 0.078937877 | 0.451 | 0.406 | 1 | 1 | 1.110837 |
| Fip1l1 | 0.005503035 | 0.018557893 | 0.356 | 0.334 | 1 | 1 | 1.065868 |
| Rpl7 | 0.005697604 | 0.027375633 | 1 | 1 | 1 | 1 | 1 |
| Prkch | 0.005898339 | 0.009191803 | 0.295 | 0.283 | 1 | 1 | 1.042403 |
| Smad7 | 0.006204185 | 0.004307187 | 0.364 | 0.351 | 1 | 1 | 1.037037 |
| Lsm7 | 0.006505724 | 0.022935629 | 0.354 | 0.323 | 1 | 1 | 1.095975 |
| Arhgdib | 0.006521441 | 0.019237014 | 0.999 | 0.997 | 1 | 1 | 1.002006 |
| Tle4 | 0.007285818 | 0.072540397 | 0.275 | 0.236 | 1 | 1 | 1.165254 |
| Dtymk | 0.007286793 | 0.017397166 | 0.303 | 0.278 | 1 | 1 | 1.089928 |
| Arl5c | 0.007315538 | 0.073507998 | 0.379 | 0.331 | 1 | 1 | 1.145015 |
| Pdcd6ip | 0.007669545 | 0.036108542 | 0.332 | 0.302 | 1 | 1 | 1.099338 |
| Cycs | 0.007853968 | 0.000621815 | 0.639 | 0.61 | 1 | 1 | 1.047541 |
| Snx6 | 0.00791938 | 0.003712511 | 0.276 | 0.264 | 1 | 1 | 1.045455 |
| Nck1 | 0.008059382 | 0.030616227 | 0.255 | 0.24 | 1 | 1 | 1.0625 |
| Cggbp1 | 0.008222657 | 0.051447995 | 0.374 | 0.336 | 1 | 1 | 1.113095 |
| Rsl1d1 | 0.008640568 | 0.016603955 | 0.475 | 0.443 | 1 | 1 | 1.072235 |
| Hspa8 | 0.008700954 | 0.019089309 | 0.993 | 0.989 | 1 | 1 | 1.004044 |
| Fkbp4 | 0.008710245 | 0.03044777 | 0.391 | 0.36 | 1 | 1 | 1.086111 |
| Prkcb | 0.008785863 | 0.064167701 | 0.254 | 0.217 | 1 | 1 | 1.170507 |
| Ssna1 | 0.009072508 | 0.035423897 | 0.365 | 0.333 | 1 | 1 | 1.096096 |

| | | | | | | | | |
|----------|-------------|-------------|-------|-------|----------|---|---|----------|
| Sms | 0.009226997 | 0.04144299 | 0.348 | 0.307 | | 1 | 1 | 1.13355 |
| Mrps15 | 0.00946887 | 0.01471469 | 0.308 | 0.292 | | 1 | 1 | 1.054795 |
| Lsm8 | 0.009825218 | 0.009242 | 0.359 | 0.347 | | 1 | 1 | 1.034582 |
| Banf1 | 0.009916328 | 0.000979314 | 0.486 | 0.466 | | 1 | 1 | 1.042918 |
| Stat1 | 4.91E-81 | 0.501987181 | 0.906 | 0.683 | 4.88E-77 | | 2 | 1.326501 |
| Igtp | 2.23E-67 | 0.484317561 | 0.698 | 0.418 | 2.22E-63 | | 2 | 1.669856 |
| Zbp1 | 1.54E-63 | 0.422876474 | 0.6 | 0.341 | 1.53E-59 | | 2 | 1.759531 |
| Gbp4 | 1.44E-62 | 0.428496172 | 0.674 | 0.451 | 1.43E-58 | | 2 | 1.494457 |
| Iigp1 | 1.05E-61 | 0.506159337 | 0.363 | 0.131 | 1.04E-57 | | 2 | 2.770992 |
| Cd4 | 1.05E-56 | 0.333791512 | 0.584 | 0.3 | 1.05E-52 | | 2 | 1.946667 |
| Ifi203 | 3.98E-55 | 0.353970798 | 0.96 | 0.859 | 3.96E-51 | | 2 | 1.117579 |
| Ifi2712a | 1.84E-54 | 0.480167192 | 0.96 | 0.868 | 1.83E-50 | | 2 | 1.105991 |
| Mndal | 3.23E-53 | 0.325062459 | 0.977 | 0.909 | 3.21E-49 | | 2 | 1.074807 |
| Slfn1 | 4.20E-52 | 0.379742272 | 0.718 | 0.484 | 4.17E-48 | | 2 | 1.483471 |
| Rtp4 | 8.01E-50 | 0.400085534 | 0.499 | 0.259 | 7.96E-46 | | 2 | 1.926641 |
| Isg15 | 3.07E-47 | 0.481476684 | 0.419 | 0.234 | 3.05E-43 | | 2 | 1.790598 |
| Ifit1 | 4.39E-46 | 0.485215691 | 0.312 | 0.125 | 4.36E-42 | | 2 | 2.496 |
| Malat1 | 3.80E-44 | 0.147885197 | 1 | 1 | 3.78E-40 | | 2 | 1 |
| Pdlim4 | 8.20E-43 | 0.308412855 | 0.422 | 0.202 | 8.15E-39 | | 2 | 2.089109 |
| Tspan32 | 2.50E-39 | 0.312198154 | 0.691 | 0.45 | 2.48E-35 | | 2 | 1.535556 |
| Irgm1 | 7.16E-39 | 0.32807403 | 0.44 | 0.242 | 7.12E-35 | | 2 | 1.818182 |
| Irf7 | 7.14E-38 | 0.325466988 | 0.406 | 0.231 | 7.10E-34 | | 2 | 1.757576 |
| Igfbp4 | 1.56E-37 | 0.339700979 | 0.799 | 0.585 | 1.55E-33 | | 2 | 1.365812 |
| Ifi47 | 2.80E-35 | 0.298741026 | 0.731 | 0.596 | 2.78E-31 | | 2 | 1.22651 |
| Gbp2 | 7.82E-35 | 0.333746133 | 0.414 | 0.258 | 7.77E-31 | | 2 | 1.604651 |
| Gbp7 | 2.19E-33 | 0.321421171 | 0.523 | 0.337 | 2.18E-29 | | 2 | 1.551929 |
| Samhd1 | 3.69E-33 | 0.305921705 | 0.735 | 0.534 | 3.67E-29 | | 2 | 1.376404 |
| Smchd1 | 1.42E-31 | 0.272475159 | 0.694 | 0.53 | 1.41E-27 | | 2 | 1.309434 |
| Parp14 | 4.36E-29 | 0.263781292 | 0.335 | 0.18 | 4.34E-25 | | 2 | 1.861111 |
| Slfn2 | 1.01E-27 | 0.258377145 | 0.915 | 0.809 | 1.00E-23 | | 2 | 1.131026 |
| Lef1 | 1.47E-27 | 0.233276239 | 0.924 | 0.833 | 1.46E-23 | | 2 | 1.109244 |
| Sepp1 | 2.86E-26 | 0.230843918 | 0.445 | 0.269 | 2.84E-22 | | 2 | 1.654275 |
| Tgtp2 | 2.91E-26 | 0.254752131 | 0.352 | 0.188 | 2.89E-22 | | 2 | 1.87234 |
| Cd40lg | 3.48E-26 | 0.182261682 | 0.278 | 0.136 | 3.46E-22 | | 2 | 2.044118 |
| Pydc3 | 4.04E-26 | 0.213388836 | 0.447 | 0.302 | 4.01E-22 | | 2 | 1.480132 |
| Bcl11b | 1.38E-25 | 0.249581537 | 0.869 | 0.761 | 1.37E-21 | | 2 | 1.141919 |
| Ddx60 | 2.65E-25 | 0.241906101 | 0.258 | 0.147 | 2.64E-21 | | 2 | 1.755102 |
| Bst2 | 2.94E-25 | 0.249000656 | 0.54 | 0.422 | 2.92E-21 | | 2 | 1.279621 |
| Usp18 | 5.52E-25 | 0.279929043 | 0.277 | 0.143 | 5.49E-21 | | 2 | 1.937063 |
| Slfn8 | 1.26E-24 | 0.236008805 | 0.372 | 0.227 | 1.25E-20 | | 2 | 1.638767 |
| H2-T23 | 8.91E-24 | 0.227934688 | 0.878 | 0.772 | 8.85E-20 | | 2 | 1.137306 |
| Rps27 | 1.26E-23 | 0.02932519 | 1 | 1 | 1.26E-19 | | 2 | 1 |
| Pecam1 | 2.22E-23 | 0.227518186 | 0.497 | 0.334 | 2.20E-19 | | 2 | 1.488024 |
| Xaf1 | 3.13E-23 | 0.25705387 | 0.367 | 0.221 | 3.11E-19 | | 2 | 1.660633 |
| Fth1 | 4.53E-23 | 0.117918907 | 0.999 | 0.997 | 4.51E-19 | | 2 | 1.002006 |
| Nxpe3 | 4.89E-23 | 0.231376082 | 0.359 | 0.212 | 4.86E-19 | | 2 | 1.693396 |
| Gbp2b | 5.74E-23 | 0.260389802 | 0.296 | 0.162 | 5.70E-19 | | 2 | 1.82716 |

| | | | | | | | |
|----------------|----------|-------------|-------|-------|----------|---|----------|
| Daxx | 5.90E-23 | 0.212627889 | 0.397 | 0.28 | 5.86E-19 | 2 | 1.417857 |
| Tgtp1 | 2.90E-22 | 0.219427901 | 0.297 | 0.155 | 2.88E-18 | 2 | 1.916129 |
| Irf9 | 5.68E-22 | 0.223246438 | 0.46 | 0.294 | 5.65E-18 | 2 | 1.564626 |
| 9930111J21Rik2 | 1.70E-21 | 0.23559723 | 0.617 | 0.459 | 1.69E-17 | 2 | 1.344227 |
| Rps29 | 3.30E-21 | 0.042403201 | 1 | 1 | 3.28E-17 | 2 | 1 |
| H2-D1 | 2.34E-20 | 0.073701324 | 1 | 1 | 2.32E-16 | 2 | 1 |
| Ndr3 | 3.42E-20 | 0.196397241 | 0.384 | 0.255 | 3.39E-16 | 2 | 1.505882 |
| Hmha1 | 3.91E-20 | 0.176840886 | 0.933 | 0.887 | 3.88E-16 | 2 | 1.05186 |
| Smc6 | 1.03E-19 | 0.173994765 | 0.972 | 0.936 | 1.02E-15 | 2 | 1.038462 |
| Trim12c | 3.27E-18 | 0.178023371 | 0.358 | 0.262 | 3.25E-14 | 2 | 1.366412 |
| Itm2b | 7.54E-18 | 0.142828792 | 0.984 | 0.968 | 7.50E-14 | 2 | 1.016529 |
| Tmsb4x | 1.22E-17 | 0.025070719 | 1 | 1 | 1.21E-13 | 2 | 1 |
| Il6ra | 1.45E-17 | 0.166589171 | 0.545 | 0.389 | 1.44E-13 | 2 | 1.401028 |
| Ibtk | 3.27E-17 | 0.157354657 | 0.319 | 0.193 | 3.25E-13 | 2 | 1.65285 |
| Phf11b | 4.86E-17 | 0.162587509 | 0.323 | 0.232 | 4.83E-13 | 2 | 1.392241 |
| Arhgap15 | 9.43E-17 | 0.188258755 | 0.789 | 0.658 | 9.38E-13 | 2 | 1.199088 |
| Trim30a | 1.51E-16 | 0.175750861 | 0.339 | 0.253 | 1.50E-12 | 2 | 1.339921 |
| Sp100 | 1.68E-16 | 0.185395374 | 0.901 | 0.829 | 1.67E-12 | 2 | 1.086852 |
| Trib2 | 2.87E-16 | 0.174515783 | 0.348 | 0.222 | 2.86E-12 | 2 | 1.567568 |
| Coro1a | 2.89E-16 | 0.096947013 | 1 | 0.997 | 2.87E-12 | 2 | 1.003009 |
| S1pr1 | 5.09E-16 | 0.201458557 | 0.688 | 0.561 | 5.06E-12 | 2 | 1.226381 |
| Kif1b | 5.40E-16 | 0.171053945 | 0.281 | 0.169 | 5.37E-12 | 2 | 1.662722 |
| Samd9l | 6.05E-16 | 0.203373892 | 0.562 | 0.434 | 6.02E-12 | 2 | 1.294931 |
| Irf1 | 6.29E-16 | 0.215705785 | 0.515 | 0.382 | 6.25E-12 | 2 | 1.348168 |
| Npc2 | 7.05E-16 | 0.150476193 | 0.971 | 0.947 | 7.01E-12 | 2 | 1.025343 |
| Tspo | 8.64E-16 | 0.185351187 | 0.865 | 0.783 | 8.59E-12 | 2 | 1.104725 |
| Scg5 | 3.03E-15 | 0.156098062 | 0.465 | 0.346 | 3.02E-11 | 2 | 1.343931 |
| Parp9 | 6.54E-15 | 0.206049795 | 0.307 | 0.188 | 6.50E-11 | 2 | 1.632979 |
| H2-T22 | 7.39E-15 | 0.185528902 | 0.809 | 0.713 | 7.35E-11 | 2 | 1.134642 |
| Fam102a | 8.21E-15 | 0.129877963 | 0.313 | 0.204 | 8.16E-11 | 2 | 1.534314 |
| Tecpr1 | 8.66E-15 | 0.179520101 | 0.511 | 0.383 | 8.61E-11 | 2 | 1.334204 |
| Gimap4 | 1.42E-14 | 0.170849691 | 0.933 | 0.867 | 1.41E-10 | 2 | 1.076125 |
| Emb | 1.64E-14 | 0.189653026 | 0.711 | 0.585 | 1.63E-10 | 2 | 1.215385 |
| Tap1 | 1.85E-14 | 0.164935332 | 0.585 | 0.478 | 1.84E-10 | 2 | 1.223849 |
| Gbp9 | 2.25E-14 | 0.167535384 | 0.369 | 0.261 | 2.24E-10 | 2 | 1.413793 |
| Tmem71 | 2.67E-14 | 0.132860309 | 0.474 | 0.358 | 2.65E-10 | 2 | 1.324022 |
| Phf11c | 3.50E-14 | 0.168664276 | 0.254 | 0.147 | 3.47E-10 | 2 | 1.727891 |
| Ms4a6b | 4.61E-14 | 0.137162099 | 0.986 | 0.963 | 4.58E-10 | 2 | 1.023884 |
| Gm12840 | 5.46E-14 | 0.264739268 | 0.633 | 0.498 | 5.43E-10 | 2 | 1.271084 |
| Shisa5 | 8.55E-14 | 0.08667982 | 1 | 0.999 | 8.50E-10 | 2 | 1.001001 |
| Tesc | 1.43E-13 | 0.176898993 | 0.282 | 0.184 | 1.42E-09 | 2 | 1.532609 |
| Pyhin1 | 1.44E-13 | 0.149929623 | 0.368 | 0.29 | 1.43E-09 | 2 | 1.268966 |
| Ccr7 | 1.61E-13 | 0.166121031 | 0.844 | 0.736 | 1.60E-09 | 2 | 1.146739 |
| 4930523C07Rik | 4.00E-13 | 0.174829337 | 0.842 | 0.756 | 3.98E-09 | 2 | 1.113757 |
| Rnf114 | 4.22E-13 | 0.141356845 | 0.4 | 0.304 | 4.20E-09 | 2 | 1.315789 |
| Actn1 | 4.87E-13 | 0.173236613 | 0.616 | 0.479 | 4.84E-09 | 2 | 1.286013 |
| Btg1 | 4.91E-13 | 0.111921722 | 0.988 | 0.982 | 4.88E-09 | 2 | 1.00611 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Znrf1 | 1.13E-12 | 0.112113465 | 0.395 | 0.285 | 1.13E-08 | 2 | 1.385965 |
| Atp1b1 | 1.58E-12 | 0.117844133 | 0.385 | 0.293 | 1.57E-08 | 2 | 1.313993 |
| Limd2 | 1.96E-12 | 0.11124925 | 0.992 | 0.99 | 1.95E-08 | 2 | 1.00202 |
| H3f3b | 2.25E-12 | 0.114241126 | 0.999 | 0.993 | 2.23E-08 | 2 | 1.006042 |
| Dtx3l | 6.16E-12 | 0.149369186 | 0.282 | 0.184 | 6.13E-08 | 2 | 1.532609 |
| Satb1 | 6.45E-12 | 0.162282718 | 0.821 | 0.727 | 6.41E-08 | 2 | 1.129298 |
| Chd3 | 6.67E-12 | 0.175377278 | 0.79 | 0.702 | 6.63E-08 | 2 | 1.125356 |
| Fam101b | 8.51E-12 | 0.143919077 | 0.495 | 0.369 | 8.46E-08 | 2 | 1.341463 |
| Itga4 | 9.79E-12 | 0.084082159 | 0.372 | 0.272 | 9.73E-08 | 2 | 1.367647 |
| Gimap3 | 1.00E-11 | 0.160912489 | 0.86 | 0.778 | 9.97E-08 | 2 | 1.105398 |
| Galnt6 | 1.45E-11 | 0.070214617 | 0.347 | 0.259 | 1.44E-07 | 2 | 1.339768 |
| Chmp4b | 1.59E-11 | 0.155041611 | 0.516 | 0.408 | 1.58E-07 | 2 | 1.264706 |
| Psmb9 | 1.82E-11 | 0.15311423 | 0.865 | 0.786 | 1.81E-07 | 2 | 1.100509 |
| Dgka | 1.90E-11 | 0.161651823 | 0.667 | 0.545 | 1.89E-07 | 2 | 1.223853 |
| Arhgef1 | 2.27E-11 | 0.134315267 | 0.921 | 0.883 | 2.25E-07 | 2 | 1.043035 |
| Crlf3 | 2.85E-11 | 0.159123065 | 0.655 | 0.545 | 2.83E-07 | 2 | 1.201835 |
| Nudt16 | 3.94E-11 | 0.049172405 | 0.301 | 0.25 | 3.92E-07 | 2 | 1.204 |
| Sepw1 | 6.15E-11 | 0.123853677 | 0.97 | 0.949 | 6.12E-07 | 2 | 1.022129 |
| Etf1 | 6.56E-11 | 0.036990905 | 0.298 | 0.271 | 6.52E-07 | 2 | 1.099631 |
| Ktn1 | 7.63E-11 | 0.094017286 | 0.379 | 0.296 | 7.59E-07 | 2 | 1.280405 |
| Cd47 | 8.34E-11 | 0.146052752 | 0.898 | 0.848 | 8.29E-07 | 2 | 1.058962 |
| Cd9 | 1.06E-10 | 0.125836308 | 0.414 | 0.301 | 1.06E-06 | 2 | 1.375415 |
| Ass1 | 1.11E-10 | 0.125877807 | 0.492 | 0.372 | 1.10E-06 | 2 | 1.322581 |
| Ms4a4b | 1.21E-10 | 0.073330606 | 1 | 0.994 | 1.20E-06 | 2 | 1.006036 |
| Lgals9 | 1.34E-10 | 0.120503468 | 0.464 | 0.36 | 1.33E-06 | 2 | 1.288889 |
| Psmb8 | 1.49E-10 | 0.114752592 | 0.98 | 0.969 | 1.48E-06 | 2 | 1.011352 |
| Zbtb20 | 1.77E-10 | 0.109047631 | 0.339 | 0.265 | 1.76E-06 | 2 | 1.279245 |
| Rasgrp1 | 2.07E-10 | 0.133891337 | 0.505 | 0.402 | 2.06E-06 | 2 | 1.256219 |
| Emc9 | 2.36E-10 | 0.099859486 | 0.262 | 0.186 | 2.35E-06 | 2 | 1.408602 |
| Tespa1 | 2.51E-10 | 0.080406369 | 0.262 | 0.199 | 2.49E-06 | 2 | 1.316583 |
| Mir142hg | 3.02E-10 | 0.047772091 | 0.254 | 0.211 | 3.01E-06 | 2 | 1.203791 |
| BC094916 | 3.83E-10 | 0.147537179 | 0.371 | 0.285 | 3.81E-06 | 2 | 1.301754 |
| Fam134b | 4.72E-10 | 0.128143221 | 0.358 | 0.262 | 4.69E-06 | 2 | 1.366412 |
| Atp1b3 | 5.29E-10 | 0.133707437 | 0.909 | 0.841 | 5.26E-06 | 2 | 1.080856 |
| Spr | 5.30E-10 | 0.058062415 | 0.306 | 0.252 | 5.26E-06 | 2 | 1.214286 |
| Rtf1 | 6.18E-10 | 0.127877568 | 0.648 | 0.541 | 6.14E-06 | 2 | 1.197782 |
| Ddx58 | 7.00E-10 | 0.097912418 | 0.26 | 0.189 | 6.96E-06 | 2 | 1.375661 |
| Egln2 | 7.45E-10 | 0.087556652 | 0.273 | 0.207 | 7.41E-06 | 2 | 1.318841 |
| Vps37b | 7.46E-10 | 0.084114944 | 0.341 | 0.278 | 7.42E-06 | 2 | 1.226619 |
| Srpk1 | 7.50E-10 | 0.144163889 | 0.818 | 0.736 | 7.45E-06 | 2 | 1.111413 |
| Ascc3 | 7.81E-10 | 0.105885649 | 0.272 | 0.196 | 7.77E-06 | 2 | 1.387755 |
| Trem12 | 8.12E-10 | 0.128277372 | 0.318 | 0.231 | 8.07E-06 | 2 | 1.376623 |
| Pycard | 9.52E-10 | 0.126399208 | 0.734 | 0.625 | 9.46E-06 | 2 | 1.1744 |
| Tcf7 | 9.74E-10 | 0.154106278 | 0.733 | 0.637 | 9.68E-06 | 2 | 1.150706 |
| Flt3l | 1.06E-09 | 0.089029563 | 0.313 | 0.226 | 1.05E-05 | 2 | 1.384956 |
| 02-Mar | 1.18E-09 | 0.027445085 | 0.383 | 0.333 | 1.17E-05 | 2 | 1.15015 |
| Chmp3 | 1.18E-09 | 0.030060167 | 0.286 | 0.231 | 1.17E-05 | 2 | 1.238095 |

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|---------|----------|-------------|-------|-------|-------------|---|----------|
| Ifi35 | 1.34E-09 | 0.111181876 | 0.464 | 0.388 | 1.33E-05 | 2 | 1.195876 |
| Ifnar1 | 1.55E-09 | 0.011123913 | 0.29 | 0.273 | 1.54E-05 | 2 | 1.062271 |
| Cyth1 | 1.66E-09 | 0.019044418 | 0.482 | 0.41 | 1.65E-05 | 2 | 1.17561 |
| Itm2a | 1.86E-09 | 0.083180922 | 0.349 | 0.255 | 1.85E-05 | 2 | 1.368627 |
| Zfp292 | 2.04E-09 | 0.104932521 | 0.494 | 0.413 | 2.02E-05 | 2 | 1.196126 |
| Gimap1 | 2.09E-09 | 0.142895253 | 0.886 | 0.831 | 2.08E-05 | 2 | 1.066185 |
| Tmsb10 | 2.39E-09 | 0.036992743 | 1 | 1 | 2.38E-05 | 2 | 1 |
| Cpsf6 | 2.40E-09 | 0.081739365 | 0.265 | 0.21 | 2.38E-05 | 2 | 1.261905 |
| Stt3b | 2.41E-09 | 0.117232645 | 0.366 | 0.275 | 2.39E-05 | 2 | 1.330909 |
| Ccm2 | 3.41E-09 | 0.122006998 | 0.492 | 0.406 | 3.39E-05 | 2 | 1.211823 |
| Ctse | 3.48E-09 | 0.131529543 | 0.473 | 0.393 | 3.46E-05 | 2 | 1.203562 |
| Rbms1 | 3.70E-09 | 0.102481919 | 0.437 | 0.345 | 3.67E-05 | 2 | 1.266667 |
| Fam105a | 4.36E-09 | 0.081982313 | 0.507 | 0.426 | 4.34E-05 | 2 | 1.190141 |
| B2m | 4.48E-09 | 0.041798238 | 1 | 1 | 4.45E-05 | 2 | 1 |
| Mkln1 | 4.57E-09 | 0.058265777 | 0.308 | 0.246 | 4.54E-05 | 2 | 1.252033 |
| Gtpbp2 | 5.09E-09 | 0.083343476 | 0.383 | 0.31 | 5.06E-05 | 2 | 1.235484 |
| Fam69a | 6.01E-09 | 0.087065453 | 0.348 | 0.259 | 5.97E-05 | 2 | 1.343629 |
| Rbm6 | 6.05E-09 | 0.091897756 | 0.376 | 0.313 | 6.02E-05 | 2 | 1.201278 |
| Taok3 | 6.11E-09 | 0.030736169 | 0.335 | 0.274 | 6.07E-05 | 2 | 1.222628 |
| Fxyd5 | 6.53E-09 | 0.105539002 | 0.972 | 0.957 | 6.49E-05 | 2 | 1.015674 |
| Ubxn6 | 6.76E-09 | 0.05027497 | 0.299 | 0.24 | 6.72E-05 | 2 | 1.245833 |
| Cytip | 7.10E-09 | 0.145258854 | 0.752 | 0.657 | 7.06E-05 | 2 | 1.144597 |
| Eed | 7.22E-09 | 0.04821232 | 0.297 | 0.23 | 7.18E-05 | 2 | 1.291304 |
| Faah | 7.78E-09 | 0.089885291 | 0.299 | 0.227 | 7.73E-05 | 2 | 1.317181 |
| Pik3ip1 | 8.13E-09 | 0.123879699 | 0.666 | 0.556 | 8.08E-05 | 2 | 1.197842 |
| Itgb7 | 8.21E-09 | 0.130702097 | 0.774 | 0.674 | 8.16E-05 | 2 | 1.148368 |
| Tigd2 | 8.86E-09 | 0.024937761 | 0.351 | 0.31 | 8.81E-05 | 2 | 1.132258 |
| Ccdc174 | 8.93E-09 | 0.044376878 | 0.305 | 0.248 | 8.88E-05 | 2 | 1.229839 |
| Itpr2 | 9.28E-09 | 0.113022863 | 0.458 | 0.367 | 9.23E-05 | 2 | 1.247956 |
| Arhgap4 | 1.01E-08 | 0.059034528 | 0.26 | 0.208 | 0.000100828 | 2 | 1.25 |
| Thap3 | 1.02E-08 | 0.078279198 | 0.376 | 0.301 | 0.000101666 | 2 | 1.249169 |
| Ltb | 1.15E-08 | 0.065095815 | 0.997 | 0.987 | 0.000114418 | 2 | 1.010132 |
| Ppa1 | 1.22E-08 | 0.057019019 | 0.295 | 0.254 | 0.00012128 | 2 | 1.161417 |
| Phf14 | 1.48E-08 | 0.07431664 | 0.376 | 0.302 | 0.000146792 | 2 | 1.245033 |
| Tnik | 1.53E-08 | 0.091895379 | 0.412 | 0.326 | 0.000151762 | 2 | 1.263804 |
| Whsc111 | 1.56E-08 | 0.141046675 | 0.685 | 0.585 | 0.000155044 | 2 | 1.17094 |
| Brd2 | 1.58E-08 | 0.069534551 | 0.351 | 0.29 | 0.000156628 | 2 | 1.210345 |
| Epsti1 | 1.60E-08 | 0.110965608 | 0.352 | 0.284 | 0.000158757 | 2 | 1.239437 |
| Gpr132 | 1.61E-08 | 0.063176207 | 0.288 | 0.216 | 0.000160123 | 2 | 1.333333 |
| Mgea5 | 1.67E-08 | 0.006650635 | 0.256 | 0.213 | 0.000166264 | 2 | 1.201878 |
| Taz | 1.70E-08 | 0.004030568 | 0.292 | 0.258 | 0.000169386 | 2 | 1.131783 |
| Psme2b | 1.89E-08 | 0.079974879 | 0.264 | 0.204 | 0.000188133 | 2 | 1.294118 |
| Ago2 | 1.92E-08 | 0.090661856 | 0.286 | 0.203 | 0.000190975 | 2 | 1.408867 |
| Ssbp2 | 2.04E-08 | 0.060184701 | 0.319 | 0.25 | 0.000203187 | 2 | 1.276 |
| Acap1 | 2.24E-08 | 0.097549465 | 0.492 | 0.4 | 0.000222609 | 2 | 1.23 |
| Tet3 | 2.31E-08 | 0.099458801 | 0.298 | 0.219 | 0.000229828 | 2 | 1.360731 |
| Ets1 | 2.39E-08 | 0.134266756 | 0.879 | 0.835 | 0.000237099 | 2 | 1.052695 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Gm8369 | 2.63E-08 | 0.125597312 | 0.658 | 0.549 | 0.000261718 | 2 | 1.198543 |
| Clip1 | 2.73E-08 | 0.120953905 | 0.394 | 0.302 | 0.000270972 | 2 | 1.304636 |
| Cmc1 | 2.99E-08 | 0.093555053 | 0.376 | 0.297 | 0.000297229 | 2 | 1.265993 |
| Pde4b | 3.29E-08 | 0.078935868 | 0.256 | 0.192 | 0.000327118 | 2 | 1.333333 |
| Rbm4b | 3.45E-08 | 0.073061871 | 0.331 | 0.273 | 0.000342509 | 2 | 1.212454 |
| Etnk1 | 3.50E-08 | 0.054732065 | 0.386 | 0.333 | 0.000347421 | 2 | 1.159159 |
| Gmfg | 3.61E-08 | 0.102951387 | 0.93 | 0.874 | 0.000359133 | 2 | 1.064073 |
| mt-Nd4l | 3.77E-08 | 0.05722719 | 0.29 | 0.257 | 0.000374265 | 2 | 1.128405 |
| Tgfbr2 | 4.31E-08 | 0.073051787 | 0.253 | 0.191 | 0.000428289 | 2 | 1.324607 |
| Pqbp1 | 4.57E-08 | 0.0353776 | 0.292 | 0.241 | 0.000453782 | 2 | 1.211618 |
| Camk4 | 4.75E-08 | 0.108096459 | 0.313 | 0.236 | 0.000471983 | 2 | 1.326271 |
| Stk4 | 5.09E-08 | 0.114947196 | 0.536 | 0.459 | 0.000505582 | 2 | 1.167756 |
| Abhd8 | 5.09E-08 | 0.111826998 | 0.475 | 0.385 | 0.000505942 | 2 | 1.233766 |
| Arid4a | 5.59E-08 | 0.105934541 | 0.49 | 0.394 | 0.000555472 | 2 | 1.243655 |
| Add1 | 5.69E-08 | 0.07674529 | 0.332 | 0.263 | 0.000565175 | 2 | 1.262357 |
| Prkd2 | 5.96E-08 | 0.026947888 | 0.312 | 0.269 | 0.000592583 | 2 | 1.159851 |
| Zfp644 | 6.45E-08 | 0.108461054 | 0.37 | 0.282 | 0.000640856 | 2 | 1.312057 |
| Tdrp | 6.72E-08 | 0.056227185 | 0.281 | 0.228 | 0.000667552 | 2 | 1.232456 |
| Stk10 | 6.74E-08 | 0.077881953 | 0.368 | 0.308 | 0.000670374 | 2 | 1.194805 |
| Tm2d1 | 6.98E-08 | 0.039106263 | 0.275 | 0.233 | 0.000694264 | 2 | 1.180258 |
| Ctcf | 7.28E-08 | 0.097520958 | 0.437 | 0.368 | 0.000723219 | 2 | 1.1875 |
| Atp6v1e1 | 7.63E-08 | 0.039486174 | 0.345 | 0.314 | 0.000758087 | 2 | 1.098726 |
| Tapbp | 8.09E-08 | 0.116760369 | 0.699 | 0.619 | 0.000804455 | 2 | 1.129241 |
| Tnrc6b | 8.34E-08 | 0.06820685 | 0.427 | 0.351 | 0.000828507 | 2 | 1.216524 |
| Atg3 | 8.47E-08 | 0.024971202 | 0.334 | 0.287 | 0.000841916 | 2 | 1.163763 |
| Psmd14 | 8.93E-08 | 0.00529058 | 0.366 | 0.347 | 0.000887755 | 2 | 1.054755 |
| Asap1 | 9.97E-08 | 0.069200673 | 0.418 | 0.332 | 0.000991049 | 2 | 1.259036 |
| Rasal3 | 1.00E-07 | 0.107909155 | 0.493 | 0.411 | 0.000996793 | 2 | 1.199513 |
| Tnrc6a | 1.01E-07 | 0.10353552 | 0.449 | 0.375 | 0.001004817 | 2 | 1.197333 |
| 2310033P09Rik | 1.02E-07 | 0.041659054 | 0.266 | 0.215 | 0.001016313 | 2 | 1.237209 |
| Faap20 | 1.11E-07 | 0.106746616 | 0.284 | 0.208 | 0.001099054 | 2 | 1.365385 |
| Rpa1 | 1.15E-07 | 0.073886613 | 0.371 | 0.291 | 0.001144703 | 2 | 1.274914 |
| Psmd3 | 1.20E-07 | 0.012807751 | 0.291 | 0.261 | 0.001191819 | 2 | 1.114943 |
| Mknk2 | 1.23E-07 | 0.044512931 | 0.266 | 0.22 | 0.001220252 | 2 | 1.209091 |
| Itga6 | 1.27E-07 | 0.084092663 | 0.258 | 0.191 | 0.001264686 | 2 | 1.350785 |
| Actr10 | 1.33E-07 | 0.024676958 | 0.34 | 0.29 | 0.001323226 | 2 | 1.172414 |
| Stat3 | 1.36E-07 | 0.074063615 | 0.386 | 0.323 | 0.001353191 | 2 | 1.195046 |
| Fam103a1 | 1.40E-07 | 0.009993233 | 0.375 | 0.341 | 0.001391652 | 2 | 1.099707 |
| Madd | 1.48E-07 | 0.081606825 | 0.387 | 0.31 | 0.001473841 | 2 | 1.248387 |
| Fermt3 | 1.54E-07 | 0.060883749 | 0.411 | 0.368 | 0.001529975 | 2 | 1.116848 |
| Yipf4 | 1.58E-07 | 0.031458534 | 0.315 | 0.273 | 0.001569228 | 2 | 1.153846 |
| Mllt3 | 1.65E-07 | 0.112259491 | 0.358 | 0.268 | 0.001638685 | 2 | 1.335821 |
| Arhgap25 | 1.76E-07 | 0.057449865 | 0.272 | 0.218 | 0.001748898 | 2 | 1.247706 |
| Ttc13 | 1.83E-07 | 0.098454579 | 0.369 | 0.289 | 0.001818375 | 2 | 1.276817 |
| Ufm1 | 1.86E-07 | 0.034038847 | 0.271 | 0.25 | 0.001849094 | 2 | 1.084 |
| Gtf2b | 1.95E-07 | 0.043821712 | 0.275 | 0.233 | 0.001934033 | 2 | 1.180258 |
| Baz2a | 1.95E-07 | 0.027079667 | 0.29 | 0.246 | 0.001936617 | 2 | 1.178862 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Grb2 | 2.20E-07 | 0.047189999 | 0.323 | 0.278 | 0.002188895 | 2 | 1.161871 |
| Gpatch8 | 2.26E-07 | 0.007655381 | 0.279 | 0.259 | 0.002243906 | 2 | 1.07722 |
| 4932438A13Rik | 2.32E-07 | 0.075096403 | 0.37 | 0.296 | 0.002302524 | 2 | 1.25 |
| Dhx15 | 2.36E-07 | 0.003532778 | 0.274 | 0.249 | 0.002346664 | 2 | 1.100402 |
| Ikbke | 2.47E-07 | 0.108216129 | 0.389 | 0.294 | 0.002459933 | 2 | 1.323129 |
| Mrpl21 | 2.53E-07 | 0.045404257 | 0.372 | 0.308 | 0.002514353 | 2 | 1.207792 |
| Tmem173 | 2.61E-07 | 0.021717494 | 0.257 | 0.223 | 0.002592118 | 2 | 1.152466 |
| Mif4gd | 2.87E-07 | 0.027930928 | 0.252 | 0.205 | 0.002854202 | 2 | 1.229268 |
| Bcl7b | 2.96E-07 | 0.065140341 | 0.343 | 0.295 | 0.002944199 | 2 | 1.162712 |
| Tcea1 | 3.13E-07 | 0.019957666 | 0.368 | 0.324 | 0.003109023 | 2 | 1.135802 |
| Oser1 | 3.65E-07 | 0.012953839 | 0.312 | 0.283 | 0.003626276 | 2 | 1.102473 |
| Ddit4 | 3.65E-07 | 0.10320357 | 0.44 | 0.347 | 0.003630678 | 2 | 1.268012 |
| Ctso | 3.71E-07 | 0.072052306 | 0.308 | 0.245 | 0.003689337 | 2 | 1.257143 |
| Chic2 | 3.84E-07 | 0.026513406 | 0.435 | 0.405 | 0.003815663 | 2 | 1.074074 |
| Klf13 | 3.86E-07 | 0.1299425 | 0.8 | 0.734 | 0.003839184 | 2 | 1.089918 |
| Gimap8 | 3.90E-07 | 0.07951417 | 0.332 | 0.263 | 0.003878501 | 2 | 1.262357 |
| Btg2 | 3.94E-07 | 0.124111332 | 0.753 | 0.665 | 0.00391494 | 2 | 1.132331 |
| Zcchc7 | 4.07E-07 | 0.094331721 | 0.502 | 0.43 | 0.004045793 | 2 | 1.167442 |
| Sigirr | 4.16E-07 | 0.054628127 | 0.254 | 0.201 | 0.00413512 | 2 | 1.263682 |
| Pdpf | 4.50E-07 | 0.095506424 | 0.684 | 0.593 | 0.004474435 | 2 | 1.153457 |
| Man1a2 | 4.52E-07 | 0.076644283 | 0.381 | 0.313 | 0.004496797 | 2 | 1.217252 |
| Fyb | 4.58E-07 | 0.104293876 | 0.905 | 0.876 | 0.004554858 | 2 | 1.033105 |
| Cmas | 4.74E-07 | 0.03872951 | 0.308 | 0.252 | 0.004708628 | 2 | 1.222222 |
| Ramp1 | 5.01E-07 | 0.089588811 | 0.686 | 0.588 | 0.004982525 | 2 | 1.166667 |
| Smim19 | 5.07E-07 | 0.022935241 | 0.292 | 0.263 | 0.0050425 | 2 | 1.110266 |
| Angel2 | 5.10E-07 | 0.041469014 | 0.316 | 0.259 | 0.005074248 | 2 | 1.220077 |
| Rabgap1l | 5.13E-07 | 0.03232621 | 0.279 | 0.235 | 0.005098722 | 2 | 1.187234 |
| Mllt10 | 5.16E-07 | 0.086488637 | 0.342 | 0.262 | 0.005125317 | 2 | 1.305344 |
| Cd6 | 5.22E-07 | 0.095763629 | 0.49 | 0.429 | 0.005191379 | 2 | 1.142191 |
| Chd8 | 5.37E-07 | 0.00951375 | 0.3 | 0.271 | 0.005337249 | 2 | 1.107011 |
| Emc2 | 5.73E-07 | 0.005576491 | 0.265 | 0.27 | 0.005696855 | 2 | 0.981481 |
| Phf20l1 | 5.82E-07 | 0.091018813 | 0.475 | 0.391 | 0.005781404 | 2 | 1.214834 |
| Il4ra | 5.91E-07 | 0.079914342 | 0.394 | 0.325 | 0.005875463 | 2 | 1.212308 |
| 0610030E20Rik | 5.98E-07 | 0.052147311 | 0.318 | 0.257 | 0.005940792 | 2 | 1.237354 |
| Tmem60 | 6.10E-07 | 0.003787066 | 0.288 | 0.255 | 0.006060139 | 2 | 1.129412 |
| Aip | 6.24E-07 | 0.012306759 | 0.383 | 0.354 | 0.006201686 | 2 | 1.081921 |
| Stk38 | 6.33E-07 | 0.128909012 | 0.657 | 0.566 | 0.006287497 | 2 | 1.160777 |
| Fyn | 6.34E-07 | 0.013024781 | 0.406 | 0.353 | 0.006304814 | 2 | 1.150142 |
| Ssna1 | 6.37E-07 | 0.05982679 | 0.38 | 0.333 | 0.006327485 | 2 | 1.141141 |
| Tsc22d3 | 6.39E-07 | 0.107332087 | 0.485 | 0.391 | 0.006347145 | 2 | 1.240409 |
| Ddx24 | 6.47E-07 | 0.076117282 | 0.676 | 0.585 | 0.006427339 | 2 | 1.155556 |
| Camk2d | 6.50E-07 | 0.095348664 | 0.323 | 0.248 | 0.006458154 | 2 | 1.302419 |
| A1467606 | 6.85E-07 | 0.076329782 | 0.489 | 0.414 | 0.006810973 | 2 | 1.181159 |
| Fam78a | 7.03E-07 | 0.112280307 | 0.471 | 0.376 | 0.006989689 | 2 | 1.25266 |
| Elavl1 | 7.09E-07 | 0.072494261 | 0.413 | 0.348 | 0.007050698 | 2 | 1.186782 |
| Arid1a | 7.19E-07 | 0.064755067 | 0.365 | 0.301 | 0.00714716 | 2 | 1.212625 |
| Lipa | 7.23E-07 | 0.086089627 | 0.277 | 0.204 | 0.007188204 | 2 | 1.357843 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| 2700029M09Rik | 7.35E-07 | 0.016211755 | 0.258 | 0.236 | 0.007310212 | 2 | 1.09322 |
| Txnip | 7.39E-07 | 0.102965419 | 0.69 | 0.607 | 0.007348687 | 2 | 1.136738 |
| Pdcd2 | 7.40E-07 | 0.021405741 | 0.328 | 0.296 | 0.007355245 | 2 | 1.108108 |
| Ypel3 | 7.60E-07 | 0.122330762 | 0.737 | 0.655 | 0.007551139 | 2 | 1.125191 |
| Coro1b | 7.91E-07 | 0.03113273 | 0.331 | 0.296 | 0.007866068 | 2 | 1.118243 |
| Psm13 | 7.99E-07 | 0.018533328 | 0.367 | 0.33 | 0.007941797 | 2 | 1.112121 |
| Al413582 | 8.12E-07 | 0.069985453 | 0.432 | 0.362 | 0.008073148 | 2 | 1.19337 |
| Ccnl2 | 8.24E-07 | 0.053329737 | 0.51 | 0.441 | 0.008193512 | 2 | 1.156463 |
| Utrn | 8.41E-07 | 0.064864443 | 0.508 | 0.437 | 0.008356994 | 2 | 1.162471 |
| Pbxip1 | 8.58E-07 | 0.031637899 | 0.336 | 0.284 | 0.008529225 | 2 | 1.183099 |
| Tnfaip8l2 | 8.60E-07 | 0.106228814 | 0.62 | 0.546 | 0.008548508 | 2 | 1.135531 |
| Akap8l | 8.66E-07 | 0.035458053 | 0.257 | 0.209 | 0.008603399 | 2 | 1.229665 |
| Golgb1 | 9.23E-07 | 0.051601797 | 0.29 | 0.25 | 0.009172898 | 2 | 1.16 |
| Rnpepl1 | 9.37E-07 | 0.016209517 | 0.257 | 0.221 | 0.009314347 | 2 | 1.162896 |
| Ash1l | 9.74E-07 | 0.091865827 | 0.457 | 0.394 | 0.009679994 | 2 | 1.159898 |
| Atxn10 | 9.77E-07 | 0.033974122 | 0.297 | 0.246 | 0.00971196 | 2 | 1.207317 |
| Rif1 | 9.90E-07 | 0.014643974 | 0.256 | 0.219 | 0.00983657 | 2 | 1.16895 |
| Psm2 | 1.02E-06 | 0.02547621 | 0.381 | 0.357 | 0.010103217 | 2 | 1.067227 |
| Sart1 | 1.07E-06 | 0.006950656 | 0.266 | 0.234 | 0.010661157 | 2 | 1.136752 |
| Crtc3 | 1.08E-06 | 0.066861162 | 0.256 | 0.198 | 0.010693506 | 2 | 1.292929 |
| Acin1 | 1.09E-06 | 0.043337176 | 0.508 | 0.446 | 0.010828078 | 2 | 1.139013 |
| Rsu1 | 1.12E-06 | 0.093397488 | 0.383 | 0.301 | 0.011119491 | 2 | 1.272425 |
| Trappc2l | 1.16E-06 | 0.09175263 | 0.393 | 0.323 | 0.011499964 | 2 | 1.216718 |
| Dnajc3 | 1.18E-06 | 0.093547911 | 0.475 | 0.391 | 0.011702066 | 2 | 1.214834 |
| Pigx | 1.24E-06 | 0.000674191 | 0.348 | 0.323 | 0.012280291 | 2 | 1.077399 |
| Mettl9 | 1.24E-06 | 0.104101018 | 0.365 | 0.276 | 0.012306731 | 2 | 1.322464 |
| Myo1g | 1.24E-06 | 0.011243953 | 0.297 | 0.265 | 0.012324148 | 2 | 1.120755 |
| Rb1cc1 | 1.26E-06 | 0.068220142 | 0.331 | 0.268 | 0.012561951 | 2 | 1.235075 |
| Usp3 | 1.33E-06 | 0.060188497 | 0.377 | 0.322 | 0.013238955 | 2 | 1.170807 |
| Celf1 | 1.34E-06 | 0.022561748 | 0.359 | 0.308 | 0.013330535 | 2 | 1.165584 |
| Osgep | 1.34E-06 | 0.020696875 | 0.255 | 0.217 | 0.013335753 | 2 | 1.175115 |
| BC017643 | 1.36E-06 | 0.06640064 | 0.267 | 0.219 | 0.013555192 | 2 | 1.219178 |
| Pbrm1 | 1.38E-06 | 0.058121616 | 0.449 | 0.371 | 0.013691811 | 2 | 1.210243 |
| Chd6 | 1.41E-06 | 0.055743339 | 0.262 | 0.21 | 0.014018282 | 2 | 1.247619 |
| Sdhaf4 | 1.44E-06 | 0.014104732 | 0.283 | 0.244 | 0.014352573 | 2 | 1.159836 |
| Dapl1 | 1.49E-06 | 0.016068594 | 0.688 | 0.617 | 0.014810109 | 2 | 1.115073 |
| Itpkb | 1.50E-06 | 0.050919861 | 0.378 | 0.309 | 0.014872423 | 2 | 1.223301 |
| Pdcl3 | 1.58E-06 | 0.023898108 | 0.275 | 0.24 | 0.015723052 | 2 | 1.145833 |
| Sh3bgrl3 | 1.78E-06 | 0.047973471 | 0.988 | 0.966 | 0.017739755 | 2 | 1.022774 |
| Prdx2 | 1.79E-06 | 0.040177763 | 0.418 | 0.352 | 0.01782206 | 2 | 1.1875 |
| Safb | 1.82E-06 | 0.059779908 | 0.301 | 0.257 | 0.018045828 | 2 | 1.171206 |
| Ctss | 1.85E-06 | 0.116497091 | 0.652 | 0.573 | 0.018357294 | 2 | 1.137871 |
| Skap1 | 1.89E-06 | 0.078623241 | 0.922 | 0.871 | 0.018766316 | 2 | 1.058553 |
| Sdhaf2 | 2.03E-06 | 0.048298768 | 0.257 | 0.207 | 0.020172828 | 2 | 1.241546 |
| Cdk12 | 2.04E-06 | 0.088889024 | 0.484 | 0.414 | 0.020297482 | 2 | 1.169082 |
| Nmi | 2.05E-06 | 0.092116837 | 0.44 | 0.379 | 0.020388036 | 2 | 1.16095 |
| Lat | 2.14E-06 | 0.067061216 | 0.932 | 0.925 | 0.021299028 | 2 | 1.007568 |

| | | | | | | | |
|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Ccnd2 | 2.21E-06 | 0.105717312 | 0.945 | 0.921 | 0.021936906 | 2 | 1.026059 |
| Eif4g3 | 2.26E-06 | 0.009664252 | 0.255 | 0.229 | 0.022427912 | 2 | 1.113537 |
| Cd52 | 2.33E-06 | 0.030398875 | 1 | 1 | 0.023147264 | 2 | 1 |
| Kmt2c | 2.38E-06 | 0.075125461 | 0.315 | 0.25 | 0.023613154 | 2 | 1.26 |
| Foxo1 | 2.45E-06 | 0.107252794 | 0.466 | 0.38 | 0.024365972 | 2 | 1.226316 |
| Wbp2 | 2.49E-06 | 0.081146331 | 0.29 | 0.231 | 0.024793163 | 2 | 1.255411 |
| 2810474O19Rik | 2.56E-06 | 0.075257319 | 0.483 | 0.397 | 0.025418911 | 2 | 1.216625 |
| Phyh | 2.59E-06 | 0.045807713 | 0.302 | 0.261 | 0.025788438 | 2 | 1.157088 |
| Trappc1 | 2.74E-06 | 0.026488128 | 0.292 | 0.243 | 0.027208099 | 2 | 1.201646 |
| Itk | 2.82E-06 | 0.01132874 | 0.563 | 0.501 | 0.028039054 | 2 | 1.123752 |
| Xrn1 | 2.82E-06 | 0.07921373 | 0.342 | 0.285 | 0.028067463 | 2 | 1.2 |
| Akap8 | 2.84E-06 | 0.04219915 | 0.31 | 0.26 | 0.028186764 | 2 | 1.192308 |
| Cd247 | 2.87E-06 | 0.07836085 | 0.659 | 0.571 | 0.028502565 | 2 | 1.154116 |
| Rbm22 | 2.87E-06 | 0.006798679 | 0.314 | 0.29 | 0.028576496 | 2 | 1.082759 |
| Gm8797 | 2.89E-06 | 0.017892105 | 0.273 | 0.248 | 0.0286968 | 2 | 1.100806 |
| Psmb10 | 3.10E-06 | 0.104501217 | 0.696 | 0.625 | 0.030767975 | 2 | 1.1136 |
| Ttc1 | 3.18E-06 | 0.054227569 | 0.281 | 0.232 | 0.031608651 | 2 | 1.211207 |
| Cmtm6 | 3.36E-06 | 0.050963405 | 0.352 | 0.292 | 0.033364911 | 2 | 1.205479 |
| Gm21092 | 3.47E-06 | 0.050431282 | 0.481 | 0.423 | 0.034468511 | 2 | 1.137116 |
| Pura | 3.75E-06 | 0.075147826 | 0.377 | 0.311 | 0.037288868 | 2 | 1.212219 |
| Ppie | 3.99E-06 | 0.014423477 | 0.304 | 0.265 | 0.039629561 | 2 | 1.14717 |
| Kxd1 | 4.15E-06 | 0.001682262 | 0.343 | 0.303 | 0.041286098 | 2 | 1.132013 |
| Smim20 | 4.23E-06 | 0.057596076 | 0.306 | 0.256 | 0.042089625 | 2 | 1.195313 |
| Slc44a2 | 4.25E-06 | 0.028836936 | 0.298 | 0.252 | 0.042222287 | 2 | 1.18254 |
| Rasgrp2 | 4.39E-06 | 0.119127409 | 0.65 | 0.565 | 0.043662616 | 2 | 1.150442 |
| Nipbl | 4.40E-06 | 0.104285074 | 0.515 | 0.46 | 0.043783383 | 2 | 1.119565 |
| Il16 | 4.43E-06 | 0.062419113 | 0.608 | 0.566 | 0.044014218 | 2 | 1.074205 |
| Sesn3 | 4.50E-06 | 0.074708109 | 0.403 | 0.337 | 0.04470607 | 2 | 1.195846 |
| Sit1 | 4.78E-06 | 0.040453152 | 0.389 | 0.331 | 0.047485855 | 2 | 1.175227 |
| Tnrc6c | 4.85E-06 | 0.011322623 | 0.367 | 0.339 | 0.048208873 | 2 | 1.082596 |
| Ppp4r2 | 4.98E-06 | 0.034812035 | 0.27 | 0.237 | 0.049508299 | 2 | 1.139241 |
| Iscu | 5.14E-06 | 0.013450287 | 0.366 | 0.334 | 0.051083175 | 2 | 1.095808 |
| Ankrd17 | 5.18E-06 | 0.068260628 | 0.258 | 0.193 | 0.05150659 | 2 | 1.336788 |
| Commd8 | 5.27E-06 | 0.044625394 | 0.492 | 0.443 | 0.052399141 | 2 | 1.110609 |
| Foxp1 | 5.43E-06 | 0.116405232 | 0.749 | 0.678 | 0.054009201 | 2 | 1.10472 |
| Zeb1 | 5.48E-06 | 0.052262769 | 0.264 | 0.213 | 0.054474657 | 2 | 1.239437 |
| Chmp1a | 5.50E-06 | 0.028207395 | 0.263 | 0.218 | 0.054646129 | 2 | 1.206422 |
| Gm561 | 5.52E-06 | 0.054916661 | 0.252 | 0.202 | 0.054863613 | 2 | 1.247525 |
| Cflar | 5.58E-06 | 0.060302978 | 0.348 | 0.282 | 0.055501904 | 2 | 1.234043 |
| Smim11 | 5.73E-06 | 0.001428115 | 0.352 | 0.322 | 0.056907539 | 2 | 1.093168 |
| Ddrgk1 | 5.77E-06 | 0.042211862 | 0.439 | 0.372 | 0.057350933 | 2 | 1.180108 |
| Scamp3 | 6.10E-06 | 0.035158576 | 0.429 | 0.373 | 0.060641213 | 2 | 1.150134 |
| Lsm8 | 6.19E-06 | 0.040840444 | 0.387 | 0.343 | 0.061527391 | 2 | 1.12828 |
| Dctn6 | 6.40E-06 | 0.058798118 | 0.326 | 0.263 | 0.063603899 | 2 | 1.239544 |
| Kdm7a | 6.40E-06 | 0.034478799 | 0.252 | 0.214 | 0.063636856 | 2 | 1.17757 |
| Herc1 | 6.42E-06 | 0.043912163 | 0.284 | 0.235 | 0.063771994 | 2 | 1.208511 |
| Slc50a1 | 6.55E-06 | 0.024878375 | 0.483 | 0.432 | 0.065114134 | 2 | 1.118056 |

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|-----------|----------|-------------|-------|-------|-------------|---|----------|
| Hsbp1 | 6.58E-06 | 0.07574901 | 0.517 | 0.453 | 0.065412565 | 2 | 1.14128 |
| Mrps21 | 6.63E-06 | 0.054468364 | 0.609 | 0.535 | 0.065860712 | 2 | 1.138318 |
| Cd28 | 6.63E-06 | 0.11279834 | 0.576 | 0.489 | 0.065950718 | 2 | 1.177914 |
| Naa15 | 6.64E-06 | 0.013577274 | 0.292 | 0.264 | 0.065999193 | 2 | 1.106061 |
| Gramd1a | 6.94E-06 | 0.082492892 | 0.468 | 0.412 | 0.068941237 | 2 | 1.135922 |
| Klhdc2 | 7.18E-06 | 0.061821821 | 0.406 | 0.333 | 0.071398031 | 2 | 1.219219 |
| Oxct1 | 7.23E-06 | 0.053064882 | 0.358 | 0.303 | 0.071857262 | 2 | 1.181518 |
| Rbfa | 7.45E-06 | 0.018330224 | 0.261 | 0.227 | 0.074080655 | 2 | 1.14978 |
| Vrk3 | 7.52E-06 | 0.029766583 | 0.307 | 0.269 | 0.07473208 | 2 | 1.141264 |
| Zc3hav1 | 7.67E-06 | 0.103228669 | 0.52 | 0.435 | 0.076263797 | 2 | 1.195402 |
| Pkn1 | 7.69E-06 | 0.006167801 | 0.291 | 0.261 | 0.076466529 | 2 | 1.114943 |
| Tbc1d1 | 7.84E-06 | 0.046758941 | 0.378 | 0.333 | 0.077909018 | 2 | 1.135135 |
| Mllt6 | 8.22E-06 | 0.049828805 | 0.265 | 0.218 | 0.08167447 | 2 | 1.215596 |
| Pcm1 | 8.23E-06 | 0.0218182 | 0.286 | 0.249 | 0.081793134 | 2 | 1.148594 |
| Gmps | 8.27E-06 | 0.019529405 | 0.253 | 0.221 | 0.082161042 | 2 | 1.144796 |
| Pitpnc1 | 8.45E-06 | 0.083081306 | 0.429 | 0.347 | 0.084011058 | 2 | 1.236311 |
| Srp72 | 8.56E-06 | 0.065403041 | 0.415 | 0.344 | 0.085129068 | 2 | 1.206395 |
| Glo1 | 8.98E-06 | 0.042015308 | 0.377 | 0.325 | 0.089288712 | 2 | 1.16 |
| Rnf10 | 9.07E-06 | 0.011589654 | 0.356 | 0.328 | 0.090109432 | 2 | 1.085366 |
| Add3 | 9.08E-06 | 0.110196258 | 0.643 | 0.564 | 0.090259211 | 2 | 1.140071 |
| Nsrp1 | 9.11E-06 | 0.008507523 | 0.304 | 0.27 | 0.090595327 | 2 | 1.125926 |
| Fam173a | 9.30E-06 | 0.081502416 | 0.468 | 0.384 | 0.092406964 | 2 | 1.21875 |
| Smarca2 | 9.32E-06 | 0.009975771 | 0.281 | 0.25 | 0.092629076 | 2 | 1.124 |
| Sat1 | 9.34E-06 | 0.075032233 | 0.56 | 0.484 | 0.092849202 | 2 | 1.157025 |
| Arf4 | 9.37E-06 | 0.030053505 | 0.344 | 0.323 | 0.093151958 | 2 | 1.065015 |
| Tmem9b | 9.41E-06 | 0.037405121 | 0.512 | 0.445 | 0.093562352 | 2 | 1.150562 |
| Txndc15 | 9.52E-06 | 0.044971969 | 0.271 | 0.222 | 0.094642401 | 2 | 1.220721 |
| Dynlt1c | 9.58E-06 | 0.041030339 | 0.299 | 0.249 | 0.095252099 | 2 | 1.200803 |
| Ccnl1 | 1.01E-05 | 0.068562187 | 0.514 | 0.435 | 0.100128643 | 2 | 1.181609 |
| Tor1aip1 | 1.01E-05 | 0.08531553 | 0.326 | 0.277 | 0.100170453 | 2 | 1.176895 |
| Git2 | 1.04E-05 | 0.112697991 | 0.48 | 0.409 | 0.103137452 | 2 | 1.173594 |
| Zcchc6 | 1.04E-05 | 0.062242777 | 0.279 | 0.236 | 0.103334589 | 2 | 1.182203 |
| Dock8 | 1.05E-05 | 0.025006113 | 0.272 | 0.227 | 0.103958101 | 2 | 1.198238 |
| Tmem14c | 1.05E-05 | 0.038380157 | 0.502 | 0.439 | 0.104142857 | 2 | 1.143508 |
| Kcnn4 | 1.10E-05 | 0.058667164 | 0.482 | 0.413 | 0.108865242 | 2 | 1.16707 |
| Ubl7 | 1.10E-05 | 0.028874882 | 0.254 | 0.211 | 0.109183892 | 2 | 1.203791 |
| Mgst2 | 1.13E-05 | 0.047537846 | 0.257 | 0.208 | 0.112084309 | 2 | 1.235577 |
| Chd1 | 1.15E-05 | 0.02434697 | 0.422 | 0.404 | 0.113915519 | 2 | 1.044554 |
| Mtf2 | 1.16E-05 | 0.017803332 | 0.279 | 0.241 | 0.115085404 | 2 | 1.157676 |
| Cdk11b | 1.17E-05 | 0.073533169 | 0.448 | 0.398 | 0.116367334 | 2 | 1.125628 |
| Gimap6 | 1.19E-05 | 0.111742252 | 0.845 | 0.801 | 0.118656653 | 2 | 1.054931 |
| Pnk1 | 1.20E-05 | 0.038382198 | 0.289 | 0.241 | 0.119002628 | 2 | 1.19917 |
| Gabarapl2 | 1.20E-05 | 0.088107775 | 0.684 | 0.61 | 0.119405665 | 2 | 1.121311 |
| Rala | 1.23E-05 | 0.030195524 | 0.342 | 0.294 | 0.121816502 | 2 | 1.163265 |
| Cast | 1.24E-05 | 0.05722491 | 0.314 | 0.278 | 0.122919121 | 2 | 1.129496 |
| Fam53a | 1.24E-05 | 0.033298424 | 0.256 | 0.22 | 0.122956184 | 2 | 1.163636 |
| Pnrc2 | 1.24E-05 | 0.03086196 | 0.406 | 0.356 | 0.123434006 | 2 | 1.140449 |

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|---------|----------|-------------|-------|-------|-------------|---|----------|
| Tmem59 | 1.25E-05 | 0.082658818 | 0.65 | 0.591 | 0.124126902 | 2 | 1.099831 |
| Icam2 | 1.30E-05 | 0.065695384 | 0.347 | 0.284 | 0.129242256 | 2 | 1.221831 |
| Inpp4b | 1.31E-05 | 0.064084348 | 0.506 | 0.456 | 0.130551016 | 2 | 1.109649 |
| Exosc4 | 1.32E-05 | 0.010351839 | 0.282 | 0.262 | 0.131345466 | 2 | 1.076336 |
| Ptk2b | 1.33E-05 | 0.01514575 | 0.269 | 0.235 | 0.132068734 | 2 | 1.144681 |
| Kpna4 | 1.34E-05 | 0.027635293 | 0.335 | 0.286 | 0.132910805 | 2 | 1.171329 |
| Aqr | 1.36E-05 | 0.086139726 | 0.386 | 0.322 | 0.13476769 | 2 | 1.198758 |
| Nr1h2 | 1.36E-05 | 0.019247932 | 0.27 | 0.241 | 0.134791626 | 2 | 1.120332 |
| Churc1 | 1.37E-05 | 0.103562869 | 0.675 | 0.605 | 0.136639302 | 2 | 1.115702 |
| Ddx42 | 1.38E-05 | 0.042857713 | 0.336 | 0.29 | 0.137297707 | 2 | 1.158621 |
| Bri3 | 1.47E-05 | 0.012582067 | 0.298 | 0.26 | 0.145754997 | 2 | 1.146154 |
| Tmed10 | 1.48E-05 | 0.067652132 | 0.494 | 0.434 | 0.147509495 | 2 | 1.138249 |
| Sfxn1 | 1.49E-05 | 0.001578516 | 0.258 | 0.241 | 0.147955848 | 2 | 1.070539 |
| Lsm12 | 1.52E-05 | 0.012329847 | 0.345 | 0.311 | 0.151000384 | 2 | 1.109325 |
| Sqstm1 | 1.55E-05 | 0.036209823 | 0.297 | 0.263 | 0.154518279 | 2 | 1.129278 |
| Mdm4 | 1.56E-05 | 0.036281246 | 0.306 | 0.252 | 0.155440415 | 2 | 1.214286 |
| Mrps18a | 1.56E-05 | 0.002358347 | 0.288 | 0.262 | 0.15552389 | 2 | 1.099237 |
| Zfp281 | 1.57E-05 | 0.012470109 | 0.301 | 0.274 | 0.155880619 | 2 | 1.09854 |
| Mycbp2 | 1.58E-05 | 0.103625324 | 0.722 | 0.644 | 0.15665347 | 2 | 1.121118 |
| Senp6 | 1.59E-05 | 0.019681365 | 0.337 | 0.299 | 0.158457853 | 2 | 1.12709 |
| Hvcn1 | 1.60E-05 | 0.003108832 | 0.334 | 0.31 | 0.159533011 | 2 | 1.077419 |
| Dhx36 | 1.62E-05 | 0.042583015 | 0.291 | 0.239 | 0.161470757 | 2 | 1.217573 |
| Kdelr1 | 1.67E-05 | 0.046391145 | 0.299 | 0.246 | 0.165628318 | 2 | 1.215447 |
| Srpr | 1.75E-05 | 0.00905664 | 0.262 | 0.235 | 0.174265878 | 2 | 1.114894 |
| Smc4 | 1.76E-05 | 0.138395135 | 0.704 | 0.632 | 0.17447492 | 2 | 1.113924 |
| Txn11 | 1.79E-05 | 0.001717119 | 0.332 | 0.309 | 0.178155914 | 2 | 1.074434 |
| Ten1 | 1.80E-05 | 0.047390725 | 0.313 | 0.282 | 0.178687221 | 2 | 1.109929 |
| Fam3c | 1.80E-05 | 0.058399441 | 0.366 | 0.317 | 0.17933942 | 2 | 1.154574 |
| Hnrnpd | 1.85E-05 | 0.020970361 | 0.514 | 0.454 | 0.184109789 | 2 | 1.132159 |
| Tap2 | 1.91E-05 | 0.081184694 | 0.545 | 0.476 | 0.189555553 | 2 | 1.144958 |
| Osbpl9 | 1.95E-05 | 0.065910391 | 0.327 | 0.279 | 0.193916938 | 2 | 1.172043 |
| Fam96b | 1.96E-05 | 0.003112323 | 0.308 | 0.282 | 0.195159209 | 2 | 1.092199 |
| Pcbd2 | 1.96E-05 | 0.029880783 | 0.297 | 0.259 | 0.195183464 | 2 | 1.146718 |
| Smc3 | 2.05E-05 | 0.007249031 | 0.437 | 0.413 | 0.203664568 | 2 | 1.058111 |
| Ndfip2 | 2.07E-05 | 0.019756724 | 0.299 | 0.26 | 0.206104988 | 2 | 1.15 |
| Tes | 2.08E-05 | 0.042502083 | 0.361 | 0.304 | 0.206879184 | 2 | 1.1875 |
| Ubn1 | 2.09E-05 | 0.03114065 | 0.357 | 0.309 | 0.20799684 | 2 | 1.15534 |
| Sh3gl1 | 2.11E-05 | 0.018323855 | 0.271 | 0.237 | 0.210027195 | 2 | 1.14346 |
| Idnk | 2.13E-05 | 0.06135302 | 0.505 | 0.435 | 0.211390821 | 2 | 1.16092 |
| Vps35 | 2.22E-05 | 0.012539818 | 0.265 | 0.243 | 0.220751279 | 2 | 1.090535 |
| Hmgb2 | 2.31E-05 | 0.002068854 | 0.59 | 0.529 | 0.229545548 | 2 | 1.115312 |
| Qars | 2.31E-05 | 0.043287047 | 0.252 | 0.212 | 0.229762449 | 2 | 1.188679 |
| Spint2 | 2.32E-05 | 0.052775231 | 0.511 | 0.437 | 0.230308085 | 2 | 1.169336 |
| Fam53b | 2.35E-05 | 0.033142735 | 0.444 | 0.389 | 0.233424029 | 2 | 1.141388 |
| Tmed5 | 2.35E-05 | 0.001584591 | 0.334 | 0.307 | 0.23403991 | 2 | 1.087948 |
| Mthfd2 | 2.36E-05 | 0.074952442 | 0.287 | 0.22 | 0.23461131 | 2 | 1.304545 |
| Naa38 | 2.39E-05 | 0.035978499 | 0.393 | 0.362 | 0.237932228 | 2 | 1.085635 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Lman2 | 2.43E-05 | 0.024298207 | 0.48 | 0.428 | 0.241679472 | 2 | 1.121495 |
| Lage3 | 2.44E-05 | 0.033154874 | 0.342 | 0.3 | 0.242290086 | 2 | 1.14 |
| Commd6 | 2.47E-05 | 0.047976391 | 0.371 | 0.314 | 0.245217791 | 2 | 1.181529 |
| Flna | 2.53E-05 | 0.022600547 | 0.369 | 0.32 | 0.251671355 | 2 | 1.153125 |
| Tardbp | 2.54E-05 | 0.003427892 | 0.378 | 0.365 | 0.25273745 | 2 | 1.035616 |
| Vgll4 | 2.63E-05 | 0.066212267 | 0.44 | 0.384 | 0.261407844 | 2 | 1.145833 |
| Ythdc1 | 2.67E-05 | 0.071836609 | 0.485 | 0.433 | 0.265609693 | 2 | 1.120092 |
| Uhrf2 | 2.76E-05 | 0.059451222 | 0.267 | 0.221 | 0.273945873 | 2 | 1.208145 |
| Sh3bp1 | 2.79E-05 | 0.012705198 | 0.257 | 0.228 | 0.277187741 | 2 | 1.127193 |
| Gtf2a2 | 2.86E-05 | 0.081536252 | 0.503 | 0.422 | 0.2845181 | 2 | 1.191943 |
| Suds3 | 2.89E-05 | 0.021131586 | 0.281 | 0.241 | 0.2877296 | 2 | 1.165975 |
| Tbrg1 | 2.90E-05 | 0.071511942 | 0.554 | 0.491 | 0.288202728 | 2 | 1.12831 |
| Rsrp1 | 2.96E-05 | 0.08528972 | 0.931 | 0.903 | 0.29386642 | 2 | 1.031008 |
| Stx16 | 2.99E-05 | 0.000424331 | 0.347 | 0.322 | 0.296970824 | 2 | 1.07764 |
| Os9 | 3.03E-05 | 0.030075664 | 0.374 | 0.332 | 0.301423 | 2 | 1.126506 |
| Arfgap2 | 3.06E-05 | 0.014068917 | 0.3 | 0.268 | 0.304448063 | 2 | 1.119403 |
| Ccni | 3.08E-05 | 0.039980217 | 0.286 | 0.249 | 0.305938956 | 2 | 1.148594 |
| Clint1 | 3.12E-05 | 0.071514552 | 0.385 | 0.313 | 0.309733694 | 2 | 1.230032 |
| Cbx4 | 3.12E-05 | 0.051180713 | 0.305 | 0.251 | 0.310115841 | 2 | 1.215139 |
| Luc7l3 | 3.17E-05 | 0.024105845 | 0.467 | 0.42 | 0.315161234 | 2 | 1.111905 |
| H2-M3 | 3.23E-05 | 0.022730286 | 0.277 | 0.254 | 0.320595393 | 2 | 1.090551 |
| Rnf5 | 3.32E-05 | 0.036981558 | 0.267 | 0.237 | 0.3296205 | 2 | 1.126582 |
| Myl6 | 3.37E-05 | 0.043382535 | 0.989 | 0.992 | 0.334609487 | 2 | 0.996976 |
| Mat2b | 3.39E-05 | 0.074565966 | 0.596 | 0.525 | 0.336580592 | 2 | 1.135238 |
| Pkn2 | 3.40E-05 | 0.068008185 | 0.441 | 0.371 | 0.33783013 | 2 | 1.188679 |
| Smim4 | 3.41E-05 | 0.013654976 | 0.4 | 0.36 | 0.339334941 | 2 | 1.111111 |
| Nub1 | 3.44E-05 | 0.031467397 | 0.263 | 0.233 | 0.342254449 | 2 | 1.128755 |
| Zmynd8 | 3.45E-05 | 0.086374789 | 0.3 | 0.236 | 0.343296307 | 2 | 1.271186 |
| Swt1 | 3.49E-05 | 0.031379236 | 0.264 | 0.222 | 0.346676375 | 2 | 1.189189 |
| Timm17a | 3.54E-05 | 0.015439801 | 0.36 | 0.343 | 0.351489588 | 2 | 1.049563 |
| Rock1 | 3.54E-05 | 0.031508835 | 0.492 | 0.445 | 0.351819787 | 2 | 1.105618 |
| Snx6 | 3.77E-05 | 0.006647016 | 0.29 | 0.263 | 0.374377927 | 2 | 1.102662 |
| Anapc13 | 3.79E-05 | 0.002753387 | 0.4 | 0.36 | 0.377042308 | 2 | 1.111111 |
| Ndufv2 | 3.96E-05 | 0.030979502 | 0.558 | 0.509 | 0.393965319 | 2 | 1.096267 |
| Klf6 | 3.96E-05 | 0.055392744 | 0.343 | 0.285 | 0.394111515 | 2 | 1.203509 |
| Ctnnbl1 | 3.99E-05 | 0.023174789 | 0.284 | 0.252 | 0.396214586 | 2 | 1.126984 |
| Ube2r2 | 4.07E-05 | 0.044208345 | 0.288 | 0.238 | 0.4041089 | 2 | 1.210084 |
| Fam192a | 4.17E-05 | 0.022863504 | 0.271 | 0.247 | 0.414483334 | 2 | 1.097166 |
| Gm10093 | 4.19E-05 | 0.047999068 | 0.377 | 0.316 | 0.416703426 | 2 | 1.193038 |
| Nrbp1 | 4.23E-05 | 0.03155728 | 0.288 | 0.251 | 0.420496449 | 2 | 1.14741 |
| BC005537 | 4.24E-05 | 0.0599921 | 0.265 | 0.22 | 0.421610064 | 2 | 1.204545 |
| Trpm7 | 4.35E-05 | 0.036198992 | 0.251 | 0.213 | 0.432134207 | 2 | 1.178404 |
| Pold4 | 4.44E-05 | 0.026704574 | 0.327 | 0.29 | 0.441500052 | 2 | 1.127586 |
| Itgb1bp1 | 4.47E-05 | 0.00040671 | 0.281 | 0.267 | 0.444546232 | 2 | 1.052434 |
| Copz1 | 4.55E-05 | 0.038792781 | 0.331 | 0.291 | 0.451873593 | 2 | 1.137457 |
| Pik3r1 | 4.60E-05 | 0.076342095 | 0.466 | 0.408 | 0.457228621 | 2 | 1.142157 |
| Il21r | 4.63E-05 | 0.010644421 | 0.378 | 0.338 | 0.46053148 | 2 | 1.118343 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Tgoln1 | 4.66E-05 | 0.007803403 | 0.348 | 0.316 | 0.462895664 | 2 | 1.101266 |
| Gm10020 | 4.75E-05 | 0.006698055 | 0.454 | 0.431 | 0.47222777 | 2 | 1.053364 |
| Sash3 | 4.77E-05 | 0.031395109 | 0.38 | 0.338 | 0.473979999 | 2 | 1.12426 |
| Nfu1 | 4.78E-05 | 0.048733187 | 0.252 | 0.21 | 0.475171536 | 2 | 1.2 |
| 2610001J05Rik | 4.81E-05 | 0.013379105 | 0.297 | 0.27 | 0.478016845 | 2 | 1.1 |
| Ing1 | 4.87E-05 | 0.058846361 | 0.288 | 0.24 | 0.484466542 | 2 | 1.2 |
| Akap9 | 4.87E-05 | 0.019100979 | 0.374 | 0.34 | 0.484552049 | 2 | 1.1 |
| Senp7 | 4.89E-05 | 0.065164379 | 0.253 | 0.205 | 0.485938044 | 2 | 1.234146 |
| Gpcpd1 | 5.06E-05 | 0.071783618 | 0.298 | 0.242 | 0.502785302 | 2 | 1.231405 |
| Sep-09 | 5.17E-05 | 0.051587943 | 0.475 | 0.413 | 0.513914852 | 2 | 1.150121 |
| Arrb2 | 5.18E-05 | 0.025507629 | 0.41 | 0.361 | 0.51449429 | 2 | 1.135734 |
| Sars | 5.46E-05 | 0.004208072 | 0.483 | 0.444 | 0.543214792 | 2 | 1.087838 |
| Cnot4 | 5.53E-05 | 0.006056519 | 0.383 | 0.361 | 0.55009622 | 2 | 1.060942 |
| Atraid | 5.59E-05 | 0.040380153 | 0.337 | 0.298 | 0.555803579 | 2 | 1.130872 |
| Cyld | 5.60E-05 | 0.015650831 | 0.315 | 0.279 | 0.556706135 | 2 | 1.129032 |
| Pnir | 5.65E-05 | 0.092794441 | 0.641 | 0.565 | 0.561246354 | 2 | 1.134513 |
| Numa1 | 5.68E-05 | 0.021474785 | 0.283 | 0.248 | 0.564314589 | 2 | 1.141129 |
| Nipsnap3b | 5.71E-05 | 0.036020766 | 0.281 | 0.243 | 0.567348822 | 2 | 1.156379 |
| Cdc5l | 5.83E-05 | 0.023853864 | 0.36 | 0.333 | 0.579284046 | 2 | 1.081081 |
| Ikzf1 | 6.09E-05 | 0.061531537 | 0.653 | 0.576 | 0.605689105 | 2 | 1.133681 |
| Vdac3 | 6.42E-05 | 0.019605368 | 0.38 | 0.347 | 0.63794636 | 2 | 1.095101 |
| Pla2g16 | 6.43E-05 | 0.100048782 | 0.511 | 0.431 | 0.638948242 | 2 | 1.185615 |
| Tex261 | 6.56E-05 | 0.011854924 | 0.308 | 0.269 | 0.652531957 | 2 | 1.144981 |
| Stk24 | 6.58E-05 | 0.034294236 | 0.437 | 0.391 | 0.654049384 | 2 | 1.117647 |
| Arhgef6 | 6.62E-05 | 0.064751165 | 0.33 | 0.276 | 0.657773203 | 2 | 1.195652 |
| Rsb1l | 6.65E-05 | 0.036994984 | 0.447 | 0.397 | 0.660975206 | 2 | 1.125945 |
| H2-Q6 | 6.68E-05 | 0.066969415 | 0.472 | 0.421 | 0.663707568 | 2 | 1.12114 |
| Utp14a | 6.70E-05 | 0.00556271 | 0.262 | 0.245 | 0.665532163 | 2 | 1.069388 |
| Fam104a | 6.80E-05 | 0.038431841 | 0.474 | 0.428 | 0.675541451 | 2 | 1.107477 |
| Il6st | 6.90E-05 | 0.039531302 | 0.28 | 0.24 | 0.685882214 | 2 | 1.166667 |
| Ccng1 | 6.94E-05 | 0.034704055 | 0.331 | 0.28 | 0.689716453 | 2 | 1.182143 |
| Anapc11 | 7.05E-05 | 0.02981513 | 0.45 | 0.405 | 0.700808251 | 2 | 1.111111 |
| Dctn3 | 7.17E-05 | 0.032234817 | 0.45 | 0.415 | 0.712489829 | 2 | 1.084337 |
| Tsg101 | 7.22E-05 | 0.013771295 | 0.255 | 0.234 | 0.718127229 | 2 | 1.089744 |
| R3hdm4 | 7.49E-05 | 0.034654742 | 0.336 | 0.289 | 0.744143861 | 2 | 1.16263 |
| Ywhaz | 7.55E-05 | 0.036703563 | 0.52 | 0.457 | 0.750323839 | 2 | 1.137856 |
| Psip1 | 7.66E-05 | 0.076665807 | 0.556 | 0.475 | 0.761153922 | 2 | 1.170526 |
| Drap1 | 7.72E-05 | 0.002447658 | 0.438 | 0.398 | 0.766922547 | 2 | 1.100503 |
| Zpr1 | 7.76E-05 | 0.012324079 | 0.252 | 0.229 | 0.771251159 | 2 | 1.100437 |
| Smek2 | 7.87E-05 | 0.052373989 | 0.472 | 0.407 | 0.782600873 | 2 | 1.159705 |
| Cr1l | 7.88E-05 | 0.0390405 | 0.348 | 0.295 | 0.783279618 | 2 | 1.179661 |
| Ppp1r11 | 8.10E-05 | 0.023911327 | 0.449 | 0.43 | 0.804903309 | 2 | 1.044186 |
| Tex264 | 8.27E-05 | 0.027454422 | 0.262 | 0.228 | 0.822051863 | 2 | 1.149123 |
| Dnm2 | 8.27E-05 | 0.063246425 | 0.359 | 0.295 | 0.822422011 | 2 | 1.216949 |
| Gm12166 | 8.28E-05 | 0.009547035 | 0.342 | 0.321 | 0.823075313 | 2 | 1.065421 |
| Gps2 | 8.73E-05 | 0.025264628 | 0.365 | 0.336 | 0.867910014 | 2 | 1.08631 |
| Elk4 | 8.92E-05 | 0.006184057 | 0.293 | 0.265 | 0.887089858 | 2 | 1.10566 |

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|---------------|-------------|-------------|-------|-------|-------------|---|----------|
| Wac | 9.00E-05 | 0.02747375 | 0.297 | 0.257 | 0.894484634 | 2 | 1.155642 |
| Grcc10 | 9.37E-05 | 0.092261142 | 0.719 | 0.645 | 0.93173794 | 2 | 1.114729 |
| Atp6v1d | 9.42E-05 | 0.040877837 | 0.31 | 0.263 | 0.935855596 | 2 | 1.178707 |
| Ldb1 | 9.44E-05 | 0.046901322 | 0.251 | 0.205 | 0.938179768 | 2 | 1.22439 |
| Nr3c1 | 9.46E-05 | 0.011923951 | 0.282 | 0.249 | 0.940327291 | 2 | 1.13253 |
| Ccnt2 | 9.50E-05 | 0.045407591 | 0.328 | 0.281 | 0.944254801 | 2 | 1.16726 |
| Mob4 | 9.55E-05 | 0.027172458 | 0.31 | 0.273 | 0.94955153 | 2 | 1.135531 |
| 1110038F14Rik | 9.62E-05 | 0.015952295 | 0.252 | 0.22 | 0.956295808 | 2 | 1.145455 |
| Pfdn1 | 9.80E-05 | 0.050589464 | 0.361 | 0.307 | 0.973638141 | 2 | 1.175896 |
| Tsc22d4 | 0.000100536 | 0.080938656 | 0.695 | 0.615 | 0.999329846 | 2 | 1.130081 |
| Lyp1a2 | 0.000100931 | 0.001414982 | 0.256 | 0.238 | 1 | 2 | 1.07563 |
| Rbck1 | 0.000104153 | 0.036371339 | 0.446 | 0.403 | 1 | 2 | 1.1067 |
| Dnttip2 | 0.000106008 | 0.012957995 | 0.383 | 0.342 | 1 | 2 | 1.119883 |
| Keap1 | 0.000106548 | 0.04455186 | 0.281 | 0.24 | 1 | 2 | 1.170833 |
| H2-Q4 | 0.000106763 | 0.077921841 | 0.874 | 0.818 | 1 | 2 | 1.06846 |
| Cnppd1 | 0.000108216 | 0.04866469 | 0.273 | 0.231 | 1 | 2 | 1.181818 |
| Supt20 | 0.000109948 | 0.044205893 | 0.292 | 0.241 | 1 | 2 | 1.211618 |
| Mcmbp | 0.000111243 | 0.047225674 | 0.305 | 0.27 | 1 | 2 | 1.12963 |
| Cdkn2d | 0.00011169 | 0.080132257 | 0.533 | 0.467 | 1 | 2 | 1.141328 |
| Hprt | 0.000111916 | 0.00565169 | 0.477 | 0.445 | 1 | 2 | 1.07191 |
| Pmm2 | 0.000112923 | 0.061755257 | 0.295 | 0.237 | 1 | 2 | 1.244726 |
| Ap1m1 | 0.00011324 | 0.034790867 | 0.263 | 0.226 | 1 | 2 | 1.163717 |
| Filip1l | 0.000117631 | 0.034385397 | 0.326 | 0.282 | 1 | 2 | 1.156028 |
| Uqcc3 | 0.00011799 | 0.064100994 | 0.649 | 0.574 | 1 | 2 | 1.130662 |
| Cd5 | 0.000118188 | 0.077172282 | 0.463 | 0.395 | 1 | 2 | 1.172152 |
| Tmem50a | 0.000119355 | 0.094372826 | 0.841 | 0.791 | 1 | 2 | 1.063211 |
| Mia3 | 0.000119358 | 0.032838975 | 0.283 | 0.242 | 1 | 2 | 1.169421 |
| Hmox2 | 0.000119431 | 0.005693818 | 0.312 | 0.283 | 1 | 2 | 1.102473 |
| H2-K1 | 0.000122772 | 0.044597207 | 1 | 0.998 | 1 | 2 | 1.002004 |
| Mdp1 | 0.000128023 | 0.021261181 | 0.365 | 0.33 | 1 | 2 | 1.106061 |
| Ebpl | 0.000131719 | 0.004496026 | 0.258 | 0.232 | 1 | 2 | 1.112069 |
| Phip | 0.00013198 | 0.034939714 | 0.348 | 0.317 | 1 | 2 | 1.097792 |
| Gimp | 0.000132802 | 0.020692321 | 0.307 | 0.291 | 1 | 2 | 1.054983 |
| Csde1 | 0.000135905 | 0.016510226 | 0.483 | 0.446 | 1 | 2 | 1.08296 |
| Acbd6 | 0.000137339 | 0.031219492 | 0.335 | 0.303 | 1 | 2 | 1.105611 |
| Tia1 | 0.000138195 | 0.051686604 | 0.337 | 0.298 | 1 | 2 | 1.130872 |
| Gnai3 | 0.000139675 | 0.038977943 | 0.336 | 0.286 | 1 | 2 | 1.174825 |
| Dcaf8 | 0.000140714 | 0.032897209 | 0.362 | 0.313 | 1 | 2 | 1.15655 |
| Spop | 0.000144725 | 0.067049939 | 0.383 | 0.338 | 1 | 2 | 1.133136 |
| Higd2a | 0.000144984 | 0.01964215 | 0.51 | 0.491 | 1 | 2 | 1.038697 |
| Slc9a3r1 | 0.000148175 | 0.06324074 | 0.652 | 0.576 | 1 | 2 | 1.131944 |
| Smad7 | 0.000149098 | 0.011853377 | 0.386 | 0.349 | 1 | 2 | 1.106017 |
| Gpsm3 | 0.000151124 | 0.086749784 | 0.798 | 0.739 | 1 | 2 | 1.079838 |
| Adipor1 | 0.000153347 | 0.001133549 | 0.341 | 0.318 | 1 | 2 | 1.072327 |
| Atp11b | 0.000155328 | 0.028223899 | 0.44 | 0.396 | 1 | 2 | 1.111111 |
| Pet100 | 0.000155786 | 0.039584672 | 0.46 | 0.401 | 1 | 2 | 1.147132 |
| Cdc42se2 | 0.000157177 | 0.029042035 | 0.455 | 0.415 | 1 | 2 | 1.096386 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Atp6v1g1 | 0.000158048 | 0.06208778 | 0.612 | 0.572 | 1 | 2 | 1.06993 |
| Rab11b | 0.000160168 | 0.027415841 | 0.494 | 0.453 | 1 | 2 | 1.090508 |
| Tnks2 | 0.000161012 | 0.043976488 | 0.282 | 0.237 | 1 | 2 | 1.189873 |
| Yme1l1 | 0.000161803 | 0.013182222 | 0.29 | 0.263 | 1 | 2 | 1.102662 |
| Pdia4 | 0.000163032 | 0.007847874 | 0.322 | 0.295 | 1 | 2 | 1.091525 |
| 15-Sep | 0.000164337 | 0.055628983 | 0.761 | 0.7 | 1 | 2 | 1.087143 |
| Hspa14 | 0.000164342 | 0.003242425 | 0.288 | 0.265 | 1 | 2 | 1.086792 |
| Stra13 | 0.000165239 | 0.003913466 | 0.453 | 0.434 | 1 | 2 | 1.043779 |
| Tpp2 | 0.000166964 | 0.003671464 | 0.277 | 0.257 | 1 | 2 | 1.077821 |
| Anxa5 | 0.000167759 | 0.030673449 | 0.333 | 0.293 | 1 | 2 | 1.136519 |
| Ppp1r18 | 0.000169278 | 0.081701523 | 0.641 | 0.565 | 1 | 2 | 1.134513 |
| Desi2 | 0.000169779 | 0.011675933 | 0.258 | 0.227 | 1 | 2 | 1.136564 |
| Dync1i2 | 0.000170824 | 0.06905059 | 0.356 | 0.311 | 1 | 2 | 1.144695 |
| Casp8 | 0.000171645 | 0.073516394 | 0.491 | 0.418 | 1 | 2 | 1.174641 |
| Jakmip1 | 0.000174003 | 0.01746606 | 0.334 | 0.302 | 1 | 2 | 1.10596 |
| Tbc1d15 | 0.000178976 | 0.032502557 | 0.269 | 0.231 | 1 | 2 | 1.164502 |
| Brd7 | 0.000179548 | 0.032916498 | 0.349 | 0.304 | 1 | 2 | 1.148026 |
| Rassf2 | 0.00018086 | 0.005217341 | 0.293 | 0.263 | 1 | 2 | 1.114068 |
| Chchd10 | 0.00018122 | 0.012858918 | 0.291 | 0.253 | 1 | 2 | 1.150198 |
| Pafah1b1 | 0.000183139 | 0.05708639 | 0.657 | 0.611 | 1 | 2 | 1.075286 |
| Rbmxl1 | 0.000184963 | 0.00177468 | 0.328 | 0.3 | 1 | 2 | 1.093333 |
| Zwint | 0.000187046 | 0.005937304 | 0.267 | 0.247 | 1 | 2 | 1.080972 |
| Ptpn18 | 0.000190488 | 0.067322364 | 0.963 | 0.943 | 1 | 2 | 1.021209 |
| Brd8 | 0.000191662 | 0.030540951 | 0.274 | 0.237 | 1 | 2 | 1.156118 |
| Prkag1 | 0.000191754 | 0.007201941 | 0.31 | 0.288 | 1 | 2 | 1.076389 |
| Ctsb | 0.000200346 | 0.041491047 | 0.35 | 0.306 | 1 | 2 | 1.143791 |
| Mrpl30 | 0.000202643 | 0.076263447 | 0.677 | 0.599 | 1 | 2 | 1.130217 |
| Ralgps2 | 0.0002027 | 0.014111162 | 0.266 | 0.251 | 1 | 2 | 1.059761 |
| Snrpc | 0.00020674 | 0.019191684 | 0.435 | 0.399 | 1 | 2 | 1.090226 |
| Ggnbp2 | 0.000206957 | 0.043691264 | 0.477 | 0.418 | 1 | 2 | 1.141148 |
| Csnk2a1 | 0.000207116 | 0.016649479 | 0.473 | 0.438 | 1 | 2 | 1.079909 |
| Nisch | 0.000208918 | 0.015369998 | 0.488 | 0.441 | 1 | 2 | 1.106576 |
| Chd2 | 0.000209109 | 0.082463624 | 0.546 | 0.481 | 1 | 2 | 1.135135 |
| Gm6483 | 0.000211062 | 0.077563784 | 0.325 | 0.26 | 1 | 2 | 1.25 |
| Wapl | 0.00021544 | 0.075919086 | 0.422 | 0.354 | 1 | 2 | 1.19209 |
| Rexo1 | 0.000217527 | 0.058305546 | 0.323 | 0.273 | 1 | 2 | 1.18315 |
| Ubc | 0.00022512 | 0.027955312 | 0.378 | 0.335 | 1 | 2 | 1.128358 |
| Me2 | 0.000229856 | 0.06291613 | 0.457 | 0.408 | 1 | 2 | 1.120098 |
| Kif5b | 0.000230111 | 0.03171862 | 0.629 | 0.57 | 1 | 2 | 1.103509 |
| Sp110 | 0.000231171 | 0.094630671 | 0.709 | 0.664 | 1 | 2 | 1.067771 |
| Fnbp1 | 0.000233893 | 0.010634366 | 0.316 | 0.301 | 1 | 2 | 1.049834 |
| Mrpl24 | 0.000235239 | 0.015782006 | 0.465 | 0.439 | 1 | 2 | 1.059226 |
| Sra1 | 0.000235722 | 0.028438799 | 0.45 | 0.408 | 1 | 2 | 1.102941 |
| R3hdm1 | 0.000238301 | 0.022321092 | 0.432 | 0.39 | 1 | 2 | 1.107692 |
| Zcchc11 | 0.00024094 | 0.014388336 | 0.345 | 0.329 | 1 | 2 | 1.048632 |
| Trip11 | 0.000241503 | 0.060624923 | 0.331 | 0.286 | 1 | 2 | 1.157343 |
| Lamp1 | 0.000243362 | 0.034241548 | 0.514 | 0.469 | 1 | 2 | 1.095949 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Irf3 | 0.000244754 | 0.039516916 | 0.369 | 0.332 | 1 | 2 | 1.111446 |
| Zfp512 | 0.000245918 | 0.028733737 | 0.27 | 0.242 | 1 | 2 | 1.115702 |
| Gadd45gip1 | 0.000248109 | 0.018687037 | 0.307 | 0.281 | 1 | 2 | 1.092527 |
| Ctage5 | 0.000249577 | 0.052739102 | 0.492 | 0.43 | 1 | 2 | 1.144186 |
| Cnp | 0.000249595 | 0.094542175 | 0.71 | 0.643 | 1 | 2 | 1.104199 |
| Pdlim1 | 0.000260987 | 0.027248211 | 0.326 | 0.301 | 1 | 2 | 1.083056 |
| Lcp2 | 0.000262782 | 0.034985111 | 0.351 | 0.312 | 1 | 2 | 1.125 |
| Gimap9 | 0.000263748 | 0.093100586 | 0.614 | 0.549 | 1 | 2 | 1.118397 |
| Ddt | 0.000273591 | 0.023137019 | 0.262 | 0.224 | 1 | 2 | 1.169643 |
| Mrpl28 | 0.00027675 | 0.050880442 | 0.34 | 0.3 | 1 | 2 | 1.133333 |
| Sirt7 | 0.000280161 | 0.044281754 | 0.472 | 0.416 | 1 | 2 | 1.134615 |
| Cd2ap | 0.000286149 | 0.053026215 | 0.254 | 0.203 | 1 | 2 | 1.251232 |
| Il17ra | 0.000286945 | 0.042634943 | 0.316 | 0.284 | 1 | 2 | 1.112676 |
| Pym1 | 0.000293194 | 0.045868551 | 0.459 | 0.395 | 1 | 2 | 1.162025 |
| Wbp4 | 0.000293445 | 0.069849436 | 0.35 | 0.294 | 1 | 2 | 1.190476 |
| Mitd1 | 0.000296557 | 0.076686486 | 0.448 | 0.393 | 1 | 2 | 1.139949 |
| Itgb2 | 0.000296942 | 0.029319568 | 0.499 | 0.442 | 1 | 2 | 1.128959 |
| Iqgap1 | 0.000303238 | 0.01639209 | 0.588 | 0.54 | 1 | 2 | 1.088889 |
| Bnip3l | 0.000315131 | 0.050888865 | 0.674 | 0.606 | 1 | 2 | 1.112211 |
| Phf5a | 0.000315315 | 0.000558314 | 0.357 | 0.341 | 1 | 2 | 1.046921 |
| Aup1 | 0.000317085 | 0.017211871 | 0.293 | 0.255 | 1 | 2 | 1.14902 |
| Lsm14a | 0.000323606 | 0.060106271 | 0.426 | 0.384 | 1 | 2 | 1.109375 |
| Golga4 | 0.000326505 | 0.03464725 | 0.265 | 0.226 | 1 | 2 | 1.172566 |
| Plec | 0.000326585 | 0.056626954 | 0.264 | 0.22 | 1 | 2 | 1.2 |
| Ablim1 | 0.000333254 | 0.094763229 | 0.755 | 0.697 | 1 | 2 | 1.083214 |
| Slirp | 0.000335558 | 0.02168501 | 0.333 | 0.308 | 1 | 2 | 1.081169 |
| Psm4 | 0.000338633 | 0.019578481 | 0.653 | 0.6 | 1 | 2 | 1.088333 |
| Ccs | 0.000343536 | 0.017807898 | 0.255 | 0.221 | 1 | 2 | 1.153846 |
| B230219D22Rik | 0.000346536 | 0.018265287 | 0.34 | 0.305 | 1 | 2 | 1.114754 |
| Stx5a | 0.00035054 | 0.043375551 | 0.272 | 0.231 | 1 | 2 | 1.177489 |
| Chmp5 | 0.000351876 | 0.036688623 | 0.301 | 0.27 | 1 | 2 | 1.114815 |
| Rbm7 | 0.000354675 | 0.010818783 | 0.375 | 0.346 | 1 | 2 | 1.083815 |
| Sf3b1 | 0.000355838 | 0.085548382 | 0.879 | 0.833 | 1 | 2 | 1.055222 |
| Macf1 | 0.000356916 | 0.065081451 | 0.579 | 0.508 | 1 | 2 | 1.139764 |
| Rnf7 | 0.000364429 | 0.030027088 | 0.471 | 0.446 | 1 | 2 | 1.056054 |
| Lepro11 | 0.00036857 | 0.080613957 | 0.658 | 0.603 | 1 | 2 | 1.091211 |
| Gnai2 | 0.000368807 | 0.088965145 | 0.758 | 0.693 | 1 | 2 | 1.093795 |
| Sugt1 | 0.000369229 | 0.020468189 | 0.489 | 0.439 | 1 | 2 | 1.113895 |
| Kbtbd11 | 0.000369434 | 0.046986404 | 0.606 | 0.537 | 1 | 2 | 1.128492 |
| Rbm27 | 0.000376669 | 0.021018652 | 0.286 | 0.264 | 1 | 2 | 1.083333 |
| Cdkn1b | 0.000382993 | 0.006871593 | 0.393 | 0.365 | 1 | 2 | 1.076712 |
| Snx17 | 0.000383342 | 0.036995337 | 0.337 | 0.288 | 1 | 2 | 1.170139 |
| Tmco1 | 0.000388123 | 0.018975844 | 0.324 | 0.3 | 1 | 2 | 1.08 |
| Nsd1 | 0.000388344 | 0.032021493 | 0.343 | 0.315 | 1 | 2 | 1.088889 |
| Agfg1 | 0.000388662 | 0.02664157 | 0.254 | 0.215 | 1 | 2 | 1.181395 |
| Zranb2 | 0.000392242 | 0.043321549 | 0.38 | 0.338 | 1 | 2 | 1.12426 |
| Sf1 | 0.000392318 | 0.02553047 | 0.261 | 0.231 | 1 | 2 | 1.12987 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Sri | 0.000395193 | 0.085803971 | 0.833 | 0.786 | 1 | 2 | 1.059796 |
| Mkrn1 | 0.000396501 | 0.004613641 | 0.433 | 0.413 | 1 | 2 | 1.048426 |
| Esf1 | 0.000398933 | 0.014026358 | 0.369 | 0.328 | 1 | 2 | 1.125 |
| 1700020I14Rik | 0.000399214 | 0.017076934 | 0.272 | 0.236 | 1 | 2 | 1.152542 |
| Usp48 | 0.000400388 | 0.024318702 | 0.253 | 0.216 | 1 | 2 | 1.171296 |
| Faim | 0.000407107 | 0.006876933 | 0.313 | 0.289 | 1 | 2 | 1.083045 |
| Dap3 | 0.000413697 | 0.023647091 | 0.305 | 0.27 | 1 | 2 | 1.12963 |
| Atp6v0b | 0.00042359 | 0.003765372 | 0.386 | 0.351 | 1 | 2 | 1.099715 |
| Emp3 | 0.000426305 | 0.04730376 | 0.815 | 0.764 | 1 | 2 | 1.066754 |
| Tsnax | 0.000426514 | 0.042230284 | 0.266 | 0.222 | 1 | 2 | 1.198198 |
| Mark2 | 0.00042784 | 0.027183544 | 0.377 | 0.328 | 1 | 2 | 1.14939 |
| Mrps34 | 0.000430826 | 0.027542002 | 0.392 | 0.351 | 1 | 2 | 1.116809 |
| Ilf2 | 0.000434435 | 0.020329732 | 0.372 | 0.34 | 1 | 2 | 1.094118 |
| Mrpl35 | 0.000434861 | 0.004814921 | 0.283 | 0.259 | 1 | 2 | 1.092664 |
| Ddx17 | 0.00045038 | 0.020707615 | 0.256 | 0.23 | 1 | 2 | 1.113043 |
| Tmbim6 | 0.000458805 | 0.085822577 | 0.866 | 0.84 | 1 | 2 | 1.030952 |
| Fnbp4 | 0.000461805 | 0.082811731 | 0.273 | 0.216 | 1 | 2 | 1.263889 |
| Zfp36l2 | 0.00046429 | 0.01185236 | 0.433 | 0.405 | 1 | 2 | 1.069136 |
| BC031181 | 0.000468664 | 0.006156511 | 0.471 | 0.447 | 1 | 2 | 1.053691 |
| Rcsd1 | 0.000471899 | 0.064027005 | 0.526 | 0.458 | 1 | 2 | 1.148472 |
| 1700097N02Rik | 0.000476272 | 0.003481712 | 0.251 | 0.222 | 1 | 2 | 1.130631 |
| Dda1 | 0.000482129 | 0.024059501 | 0.306 | 0.268 | 1 | 2 | 1.141791 |
| Cdipt | 0.000487799 | 0.075200395 | 0.451 | 0.385 | 1 | 2 | 1.171429 |
| Morc3 | 0.000488713 | 0.02971138 | 0.305 | 0.261 | 1 | 2 | 1.168582 |
| Mdh2 | 0.000488889 | 0.054762681 | 0.761 | 0.696 | 1 | 2 | 1.093391 |
| Rer1 | 0.000488945 | 0.022879635 | 0.535 | 0.484 | 1 | 2 | 1.105372 |
| Tbl1x | 0.000512094 | 0.041856456 | 0.299 | 0.265 | 1 | 2 | 1.128302 |
| Zfp638 | 0.000521615 | 0.057121958 | 0.341 | 0.283 | 1 | 2 | 1.204947 |
| Mpc2 | 0.00052874 | 0.00878205 | 0.457 | 0.419 | 1 | 2 | 1.090692 |
| Smim12 | 0.000539272 | 0.028872542 | 0.257 | 0.236 | 1 | 2 | 1.088983 |
| Ogfr | 0.000542674 | 0.057068674 | 0.26 | 0.232 | 1 | 2 | 1.12069 |
| Baz1b | 0.000557296 | 0.006497865 | 0.317 | 0.286 | 1 | 2 | 1.108392 |
| Cyb5a | 0.000566763 | 0.055099187 | 0.699 | 0.629 | 1 | 2 | 1.111288 |
| C1d | 0.000574047 | 0.033766306 | 0.401 | 0.361 | 1 | 2 | 1.110803 |
| Cdc26 | 0.000577246 | 0.028689884 | 0.367 | 0.337 | 1 | 2 | 1.089021 |
| Fli1 | 0.000582644 | 0.014538712 | 0.263 | 0.253 | 1 | 2 | 1.039526 |
| Cdc123 | 0.000595084 | 0.025941662 | 0.269 | 0.234 | 1 | 2 | 1.149573 |
| Grap | 0.000608323 | 0.016457927 | 0.514 | 0.46 | 1 | 2 | 1.117391 |
| Rasa3 | 0.000609653 | 0.046914041 | 0.362 | 0.312 | 1 | 2 | 1.160256 |
| Lims1 | 0.000616099 | 0.038692852 | 0.312 | 0.28 | 1 | 2 | 1.114286 |
| 2810428I15Rik | 0.000623969 | 0.018450572 | 0.447 | 0.405 | 1 | 2 | 1.103704 |
| Pcmt1 | 0.000625887 | 0.029222703 | 0.313 | 0.28 | 1 | 2 | 1.117857 |
| Nans | 0.000626774 | 0.010439491 | 0.351 | 0.327 | 1 | 2 | 1.073394 |
| Lbr | 0.000627519 | 0.005275348 | 0.4 | 0.361 | 1 | 2 | 1.108033 |
| Arf5 | 0.000628395 | 0.065203954 | 0.875 | 0.831 | 1 | 2 | 1.052948 |
| Rbm38 | 0.000630779 | 0.001905765 | 0.456 | 0.425 | 1 | 2 | 1.072941 |
| Gpbp1l1 | 0.000643078 | 0.034574903 | 0.286 | 0.247 | 1 | 2 | 1.157895 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Mrps24 | 0.000646431 | 0.011707541 | 0.591 | 0.56 | 1 | 2 | 1.055357 |
| Jmjd1c | 0.000649253 | 0.000156431 | 0.269 | 0.241 | 1 | 2 | 1.116183 |
| Mrps17 | 0.000662236 | 0.040349013 | 0.436 | 0.381 | 1 | 2 | 1.144357 |
| Gon4l | 0.000663748 | 0.016485803 | 0.299 | 0.276 | 1 | 2 | 1.083333 |
| Mrpl40 | 0.000666066 | 0.019137586 | 0.287 | 0.253 | 1 | 2 | 1.134387 |
| Rab7 | 0.00067336 | 0.010066562 | 0.493 | 0.451 | 1 | 2 | 1.093126 |
| Eif4g1 | 0.000681543 | 0.057902024 | 0.413 | 0.37 | 1 | 2 | 1.116216 |
| Pin4 | 0.000686201 | 0.017695225 | 0.322 | 0.302 | 1 | 2 | 1.066225 |
| Crbn | 0.00068708 | 0.016677351 | 0.388 | 0.359 | 1 | 2 | 1.08078 |
| Sec11a | 0.000688579 | 0.080334256 | 0.772 | 0.71 | 1 | 2 | 1.087324 |
| Cdk5rap3 | 0.00068943 | 0.011370551 | 0.26 | 0.23 | 1 | 2 | 1.130435 |
| Ddx3y | 0.000691554 | 0.045278588 | 0.307 | 0.261 | 1 | 2 | 1.176245 |
| Clk1 | 0.00070184 | 0.063874279 | 0.519 | 0.458 | 1 | 2 | 1.133188 |
| Setx | 0.000716412 | 0.015019536 | 0.414 | 0.374 | 1 | 2 | 1.106952 |
| Hectd1 | 0.000721814 | 0.023093168 | 0.404 | 0.357 | 1 | 2 | 1.131653 |
| Ptpn1 | 0.00072491 | 0.030847938 | 0.517 | 0.468 | 1 | 2 | 1.104701 |
| Smc1a | 0.000730122 | 0.009785669 | 0.526 | 0.486 | 1 | 2 | 1.082305 |
| Rdx | 0.000732232 | 0.041132943 | 0.424 | 0.382 | 1 | 2 | 1.109948 |
| Uchl3 | 0.000742357 | 0.006645464 | 0.344 | 0.317 | 1 | 2 | 1.085174 |
| Capza1 | 0.000744023 | 0.019161461 | 0.426 | 0.402 | 1 | 2 | 1.059701 |
| Babam1 | 0.000749291 | 0.017066598 | 0.269 | 0.245 | 1 | 2 | 1.097959 |
| Trmt1l | 0.000753329 | 0.000929123 | 0.262 | 0.243 | 1 | 2 | 1.078189 |
| Ddost | 0.000779503 | 0.015218372 | 0.385 | 0.355 | 1 | 2 | 1.084507 |
| Rhof | 0.000788201 | 0.015529472 | 0.328 | 0.291 | 1 | 2 | 1.127148 |
| Mfap1a | 0.000789623 | 0.040785799 | 0.257 | 0.213 | 1 | 2 | 1.206573 |
| Gltf | 0.000795667 | 0.053491805 | 0.532 | 0.487 | 1 | 2 | 1.092402 |
| Ndufc2 | 0.000825043 | 0.007972933 | 0.559 | 0.524 | 1 | 2 | 1.066794 |
| Sh3glb1 | 0.000838753 | 0.04804996 | 0.535 | 0.479 | 1 | 2 | 1.11691 |
| Der1 | 0.000843455 | 0.026372926 | 0.325 | 0.288 | 1 | 2 | 1.128472 |
| BC021614 | 0.000844566 | 0.046200961 | 0.404 | 0.361 | 1 | 2 | 1.119114 |
| 2510002D24Rik | 0.000850134 | 0.026993959 | 0.344 | 0.307 | 1 | 2 | 1.120521 |
| Ddx6 | 0.000862971 | 0.011676946 | 0.45 | 0.409 | 1 | 2 | 1.100244 |
| Exosc7 | 0.000868249 | 0.030827883 | 0.334 | 0.299 | 1 | 2 | 1.117057 |
| Pdlim2 | 0.000868402 | 0.04267653 | 0.31 | 0.27 | 1 | 2 | 1.148148 |
| Wdr46 | 0.000873098 | 0.007974741 | 0.385 | 0.353 | 1 | 2 | 1.090652 |
| Psap | 0.000880284 | 0.062688981 | 0.586 | 0.526 | 1 | 2 | 1.114068 |
| Rgs19 | 0.000885123 | 0.027399809 | 0.368 | 0.327 | 1 | 2 | 1.125382 |
| Ebp | 0.000902629 | 0.002893119 | 0.282 | 0.264 | 1 | 2 | 1.068182 |
| Cyfp2 | 0.000908684 | 0.027745088 | 0.257 | 0.221 | 1 | 2 | 1.162896 |
| Laptm5 | 0.000926785 | 0.064163544 | 0.927 | 0.898 | 1 | 2 | 1.032294 |
| Fam133b | 0.000934105 | 0.014267941 | 0.347 | 0.312 | 1 | 2 | 1.112179 |
| Upf3b | 0.000937623 | 0.03837474 | 0.255 | 0.227 | 1 | 2 | 1.123348 |
| Mbd3 | 0.000948785 | 0.007270237 | 0.252 | 0.227 | 1 | 2 | 1.110132 |
| Grpel1 | 0.000948948 | 0.021812788 | 0.438 | 0.408 | 1 | 2 | 1.073529 |
| Rhog | 0.000953137 | 0.016396091 | 0.325 | 0.296 | 1 | 2 | 1.097973 |
| Pgs1 | 0.000956058 | 0.023619639 | 0.308 | 0.283 | 1 | 2 | 1.088339 |
| Nsmce1 | 0.000961143 | 0.064697692 | 0.471 | 0.412 | 1 | 2 | 1.143204 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Cuta | 0.000967866 | 0.039362327 | 0.502 | 0.47 | 1 | 2 | 1.068085 |
| Rapgef6 | 0.000973092 | 0.088045436 | 0.804 | 0.757 | 1 | 2 | 1.062087 |
| H2afy | 0.000979843 | 0.063105156 | 0.62 | 0.566 | 1 | 2 | 1.095406 |
| Thoc2 | 0.000979879 | 0.02101163 | 0.488 | 0.438 | 1 | 2 | 1.114155 |
| Bzw2 | 0.000997714 | 0.005243395 | 0.455 | 0.419 | 1 | 2 | 1.085919 |
| Use1 | 0.001020912 | 0.069102196 | 0.748 | 0.684 | 1 | 2 | 1.093567 |
| Trip12 | 0.001033346 | 0.027134285 | 0.33 | 0.29 | 1 | 2 | 1.137931 |
| Zdhhc20 | 0.001037613 | 0.020839046 | 0.415 | 0.373 | 1 | 2 | 1.112601 |
| Stag2 | 0.001054217 | 0.02454474 | 0.388 | 0.348 | 1 | 2 | 1.114943 |
| Acot13 | 0.001070513 | 0.026539118 | 0.266 | 0.228 | 1 | 2 | 1.166667 |
| Erbp2ip | 0.001072819 | 0.028913785 | 0.27 | 0.231 | 1 | 2 | 1.168831 |
| Tle4 | 0.001083008 | 0.003129204 | 0.262 | 0.242 | 1 | 2 | 1.082645 |
| Prkcq | 0.001096176 | 0.04243628 | 0.578 | 0.525 | 1 | 2 | 1.100952 |
| Elmo1 | 0.00110582 | 0.035027452 | 0.389 | 0.34 | 1 | 2 | 1.144118 |
| Lrp10 | 0.001107712 | 0.008568784 | 0.29 | 0.265 | 1 | 2 | 1.09434 |
| Dnajc5 | 0.001109683 | 0.024329044 | 0.354 | 0.323 | 1 | 2 | 1.095975 |
| Etf1 | 0.00111641 | 0.00887416 | 0.35 | 0.325 | 1 | 2 | 1.076923 |
| Srpk2 | 0.001131282 | 0.069104466 | 0.535 | 0.468 | 1 | 2 | 1.143162 |
| Chchd1 | 0.001133625 | 0.010105322 | 0.458 | 0.429 | 1 | 2 | 1.067599 |
| Aspscr1 | 0.00113594 | 0.015099862 | 0.251 | 0.223 | 1 | 2 | 1.125561 |
| Tlk1 | 0.001139026 | 0.053514107 | 0.26 | 0.216 | 1 | 2 | 1.203704 |
| Vimp | 0.001159655 | 0.046954052 | 0.449 | 0.392 | 1 | 2 | 1.145408 |
| 07-Mar | 0.001182118 | 0.023525766 | 0.336 | 0.311 | 1 | 2 | 1.080386 |
| Arid4b | 0.001198577 | 0.018182664 | 0.435 | 0.393 | 1 | 2 | 1.10687 |
| Anapc16 | 0.001210653 | 0.01133897 | 0.365 | 0.331 | 1 | 2 | 1.102719 |
| Maf1 | 0.001223119 | 0.031651978 | 0.435 | 0.387 | 1 | 2 | 1.124031 |
| Ddx46 | 0.001226389 | 0.026738152 | 0.464 | 0.43 | 1 | 2 | 1.07907 |
| Wbp11 | 0.001266637 | 0.029306419 | 0.406 | 0.37 | 1 | 2 | 1.097297 |
| Lsm3 | 0.001280091 | 0.046096227 | 0.447 | 0.391 | 1 | 2 | 1.143223 |
| Hnrnp1 | 0.001285858 | 0.021959097 | 0.511 | 0.464 | 1 | 2 | 1.101293 |
| Ppp4c | 0.001305032 | 0.010078298 | 0.524 | 0.5 | 1 | 2 | 1.048 |
| Syf2 | 0.001374951 | 0.013965774 | 0.634 | 0.595 | 1 | 2 | 1.065546 |
| Zcchc17 | 0.001379413 | 0.030626756 | 0.334 | 0.3 | 1 | 2 | 1.113333 |
| Id2 | 0.001395979 | 0.010948646 | 0.409 | 0.369 | 1 | 2 | 1.108401 |
| Tecr | 0.001405975 | 0.021435648 | 0.483 | 0.454 | 1 | 2 | 1.063877 |
| Azi2 | 0.00141768 | 0.008019807 | 0.292 | 0.277 | 1 | 2 | 1.054152 |
| Ankrd44 | 0.00143236 | 0.022145223 | 0.493 | 0.454 | 1 | 2 | 1.085903 |
| Unc50 | 0.00143425 | 0.015906515 | 0.292 | 0.273 | 1 | 2 | 1.069597 |
| Ralbp1 | 0.001453088 | 0.01010334 | 0.412 | 0.392 | 1 | 2 | 1.05102 |
| 5031425E22Rik | 0.001464696 | 0.030262725 | 0.254 | 0.215 | 1 | 2 | 1.181395 |
| Mrpl13 | 0.001511801 | 0.037490977 | 0.26 | 0.219 | 1 | 2 | 1.187215 |
| Peli1 | 0.001567289 | 0.036267152 | 0.711 | 0.651 | 1 | 2 | 1.092166 |
| Znrd1 | 0.001568496 | 0.001628543 | 0.34 | 0.32 | 1 | 2 | 1.0625 |
| Cd3e | 0.001580248 | 0.059124853 | 0.852 | 0.845 | 1 | 2 | 1.008284 |
| Tra2a | 0.001584479 | 0.036912358 | 0.352 | 0.318 | 1 | 2 | 1.106918 |
| Rab18 | 0.001604126 | 0.013960301 | 0.27 | 0.245 | 1 | 2 | 1.102041 |
| Arl6ip1 | 0.001614309 | 0.051501359 | 0.775 | 0.715 | 1 | 2 | 1.083916 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Rnf167 | 0.001619992 | 0.075575576 | 0.626 | 0.573 | 1 | 2 | 1.092496 |
| Elf2 | 0.001697917 | 0.040458891 | 0.35 | 0.305 | 1 | 2 | 1.147541 |
| Gsk3b | 0.001778527 | 0.04469541 | 0.394 | 0.352 | 1 | 2 | 1.119318 |
| Rpa3 | 0.00179213 | 0.019874073 | 0.263 | 0.238 | 1 | 2 | 1.105042 |
| 4933434E20Rik | 0.001810557 | 0.011794669 | 0.327 | 0.303 | 1 | 2 | 1.079208 |
| Huwe1 | 0.001821101 | 0.013971768 | 0.292 | 0.262 | 1 | 2 | 1.114504 |
| Commd3 | 0.00184009 | 0.014435819 | 0.396 | 0.358 | 1 | 2 | 1.106145 |
| Bclaf1 | 0.001841122 | 0.039666569 | 0.488 | 0.433 | 1 | 2 | 1.127021 |
| Irf2 | 0.001860778 | 0.076719832 | 0.486 | 0.427 | 1 | 2 | 1.138173 |
| H13 | 0.001863645 | 0.000862767 | 0.473 | 0.438 | 1 | 2 | 1.079909 |
| Knop1 | 0.001864556 | 0.020767452 | 0.26 | 0.234 | 1 | 2 | 1.111111 |
| Ube2j2 | 0.001878787 | 0.02809471 | 0.352 | 0.329 | 1 | 2 | 1.069909 |
| Smdt1 | 0.001881626 | 0.051119295 | 0.657 | 0.592 | 1 | 2 | 1.109797 |
| Diaph1 | 0.001895895 | 0.047814491 | 0.442 | 0.385 | 1 | 2 | 1.148052 |
| Hdac1 | 0.001914064 | 0.048843705 | 0.475 | 0.418 | 1 | 2 | 1.136364 |
| Crebbp | 0.001935991 | 0.063779617 | 0.314 | 0.259 | 1 | 2 | 1.212355 |
| Snapc5 | 0.001939843 | 0.014501458 | 0.34 | 0.319 | 1 | 2 | 1.065831 |
| Wdr83os | 0.001974666 | 0.047616177 | 0.437 | 0.39 | 1 | 2 | 1.120513 |
| Rbm17 | 0.002014217 | 0.013391547 | 0.359 | 0.338 | 1 | 2 | 1.06213 |
| Ech1 | 0.002028757 | 0.039271931 | 0.368 | 0.321 | 1 | 2 | 1.146417 |
| Rpl7l1 | 0.002052496 | 0.00208532 | 0.343 | 0.321 | 1 | 2 | 1.068536 |
| Ankrd12 | 0.002058431 | 0.024480343 | 0.518 | 0.464 | 1 | 2 | 1.116379 |
| Cirbp | 0.002060081 | 0.051498058 | 0.709 | 0.645 | 1 | 2 | 1.099225 |
| Ppil4 | 0.002069532 | 0.039420909 | 0.412 | 0.358 | 1 | 2 | 1.150838 |
| Tram1 | 0.002082233 | 0.058240129 | 0.519 | 0.461 | 1 | 2 | 1.125813 |
| Cox7a2l | 0.002224507 | 0.044798112 | 0.983 | 0.975 | 1 | 2 | 1.008205 |
| Rabac1 | 0.002225359 | 0.067960407 | 0.832 | 0.779 | 1 | 2 | 1.068036 |
| Sh3kbp1 | 0.002243987 | 0.020019273 | 0.58 | 0.534 | 1 | 2 | 1.086142 |
| Ftl1 | 0.002281476 | 0.027085175 | 0.993 | 0.991 | 1 | 2 | 1.002018 |
| Nsmce4a | 0.002332695 | 0.005330356 | 0.438 | 0.404 | 1 | 2 | 1.084158 |
| Rab5c | 0.002334343 | 0.015618132 | 0.422 | 0.395 | 1 | 2 | 1.068354 |
| Akr1a1 | 0.002463427 | 0.029819878 | 0.576 | 0.522 | 1 | 2 | 1.103448 |
| Ap2s1 | 0.002476516 | 0.009714736 | 0.545 | 0.515 | 1 | 2 | 1.058252 |
| Tsn | 0.002547385 | 0.025515108 | 0.552 | 0.511 | 1 | 2 | 1.080235 |
| Klhdc1 | 0.00254981 | 0.035540628 | 0.278 | 0.242 | 1 | 2 | 1.14876 |
| Ndufc1 | 0.002561433 | 0.036811339 | 0.54 | 0.512 | 1 | 2 | 1.054688 |
| Cbx3 | 0.002572721 | 0.043569498 | 0.582 | 0.547 | 1 | 2 | 1.063985 |
| Akirin1 | 0.002652695 | 0.017250569 | 0.325 | 0.296 | 1 | 2 | 1.097973 |
| Uba1 | 0.002671637 | 0.002929825 | 0.27 | 0.247 | 1 | 2 | 1.093117 |
| Ddx54 | 0.002745819 | 0.009161859 | 0.322 | 0.307 | 1 | 2 | 1.04886 |
| Gnb1 | 0.002753332 | 0.007827201 | 0.319 | 0.288 | 1 | 2 | 1.107639 |
| Smpdl3a | 0.002753747 | 0.012513108 | 0.376 | 0.341 | 1 | 2 | 1.102639 |
| Itm2c | 0.002767871 | 0.031326255 | 0.388 | 0.344 | 1 | 2 | 1.127907 |
| Mrpl51 | 0.002802279 | 0.014146542 | 0.353 | 0.336 | 1 | 2 | 1.050595 |
| Ndufa3 | 0.00281762 | 0.02941352 | 0.842 | 0.791 | 1 | 2 | 1.064475 |
| Tmem243 | 0.002834537 | 0.005550728 | 0.257 | 0.247 | 1 | 2 | 1.040486 |
| Pkp3 | 0.002883418 | 0.02332751 | 0.325 | 0.282 | 1 | 2 | 1.152482 |

| | | | | | | | |
|----------|-------------|-------------|-------|-------|---|---|----------|
| Nrd1 | 0.002904332 | 0.051295891 | 0.336 | 0.285 | 1 | 2 | 1.178947 |
| Zfp207 | 0.002915454 | 0.035342445 | 0.423 | 0.377 | 1 | 2 | 1.122016 |
| Fam32a | 0.002917421 | 0.012365398 | 0.454 | 0.433 | 1 | 2 | 1.048499 |
| Snrnp27 | 0.002939505 | 0.005894113 | 0.384 | 0.358 | 1 | 2 | 1.072626 |
| Anp32a | 0.002961401 | 0.063387192 | 0.896 | 0.855 | 1 | 2 | 1.047953 |
| Cd3g | 0.002978427 | 0.051107274 | 0.992 | 0.989 | 1 | 2 | 1.003033 |
| Nudcd2 | 0.003010177 | 0.047445336 | 0.297 | 0.262 | 1 | 2 | 1.133588 |
| Thoc7 | 0.003031546 | 0.048151025 | 0.42 | 0.377 | 1 | 2 | 1.114058 |
| Serp1 | 0.00307631 | 0.011778793 | 0.405 | 0.387 | 1 | 2 | 1.046512 |
| Psmc3 | 0.003086189 | 0.003025334 | 0.439 | 0.423 | 1 | 2 | 1.037825 |
| Fbxw2 | 0.003117394 | 0.027124555 | 0.406 | 0.381 | 1 | 2 | 1.065617 |
| Fam65b | 0.003156828 | 0.060868192 | 0.564 | 0.509 | 1 | 2 | 1.108055 |
| Paics | 0.003209861 | 0.017778225 | 0.258 | 0.235 | 1 | 2 | 1.097872 |
| Sf3a3 | 0.003322728 | 0.007434473 | 0.3 | 0.278 | 1 | 2 | 1.079137 |
| Eif2s3y | 0.003340293 | 0.025437509 | 0.352 | 0.318 | 1 | 2 | 1.106918 |
| N4bp2l2 | 0.003408659 | 0.04625982 | 0.498 | 0.457 | 1 | 2 | 1.089716 |
| Pum2 | 0.003479937 | 0.003848484 | 0.349 | 0.319 | 1 | 2 | 1.094044 |
| Kdm5a | 0.003485745 | 0.012927653 | 0.378 | 0.349 | 1 | 2 | 1.083095 |
| Ddx39b | 0.003529041 | 0.035340741 | 0.612 | 0.573 | 1 | 2 | 1.068063 |
| Eif4b | 0.003597008 | 0.020038231 | 0.507 | 0.467 | 1 | 2 | 1.085653 |
| Gppb1 | 0.003600056 | 0.049774482 | 0.477 | 0.432 | 1 | 2 | 1.104167 |
| Safb2 | 0.003662304 | 0.0067915 | 0.317 | 0.289 | 1 | 2 | 1.096886 |
| Chd7 | 0.003799417 | 0.029540606 | 0.376 | 0.333 | 1 | 2 | 1.129129 |
| Myeov2 | 0.003837318 | 0.071508891 | 0.72 | 0.69 | 1 | 2 | 1.043478 |
| Rheb | 0.003837523 | 0.007668276 | 0.447 | 0.422 | 1 | 2 | 1.059242 |
| Hnrnpc | 0.003863616 | 0.036358449 | 0.615 | 0.57 | 1 | 2 | 1.078947 |
| Hnrnpr | 0.003912692 | 0.033207811 | 0.581 | 0.538 | 1 | 2 | 1.079926 |
| Usp34 | 0.003926302 | 0.029762463 | 0.387 | 0.36 | 1 | 2 | 1.075 |
| Bloc1s1 | 0.004094076 | 0.029979402 | 0.27 | 0.247 | 1 | 2 | 1.093117 |
| Arpc1a | 0.004097149 | 0.027608962 | 0.264 | 0.231 | 1 | 2 | 1.142857 |
| Sbds | 0.004143397 | 0.008391684 | 0.319 | 0.296 | 1 | 2 | 1.077703 |
| Hnrnpul1 | 0.004199373 | 0.029421288 | 0.35 | 0.308 | 1 | 2 | 1.136364 |
| Tcof1 | 0.004228101 | 0.040763107 | 0.385 | 0.339 | 1 | 2 | 1.135693 |
| Dnajc7 | 0.004276718 | 0.018145252 | 0.468 | 0.438 | 1 | 2 | 1.068493 |
| Ncor1 | 0.004329081 | 0.057343342 | 0.7 | 0.642 | 1 | 2 | 1.090343 |
| Api5 | 0.004358072 | 0.020042897 | 0.257 | 0.228 | 1 | 2 | 1.127193 |
| Usp25 | 0.004359552 | 0.023088133 | 0.274 | 0.248 | 1 | 2 | 1.104839 |
| Cdk2ap2 | 0.004421947 | 0.074396324 | 0.897 | 0.866 | 1 | 2 | 1.035797 |
| Ppp1ca | 0.004444599 | 0.041235274 | 0.9 | 0.897 | 1 | 2 | 1.003344 |
| Vapa | 0.004489168 | 0.002275527 | 0.507 | 0.475 | 1 | 2 | 1.067368 |
| Hp1bp3 | 0.004507516 | 0.070821531 | 0.563 | 0.509 | 1 | 2 | 1.10609 |
| Ppm1g | 0.004524349 | 0.004726975 | 0.463 | 0.429 | 1 | 2 | 1.079254 |
| Ubxn4 | 0.004537092 | 0.005939191 | 0.458 | 0.431 | 1 | 2 | 1.062645 |
| Taldo1 | 0.004574068 | 0.025289767 | 0.647 | 0.599 | 1 | 2 | 1.080134 |
| Ndufs3 | 0.004590522 | 0.018348365 | 0.475 | 0.45 | 1 | 2 | 1.055556 |
| Supt4a | 0.004598548 | 0.025817655 | 0.797 | 0.745 | 1 | 2 | 1.069799 |
| Esco1 | 0.004629963 | 0.00355601 | 0.301 | 0.278 | 1 | 2 | 1.082734 |

| | | | | | | | |
|----------|-------------|-------------|-------|-------|---|---|----------|
| Phf3 | 0.004743955 | 0.022652407 | 0.436 | 0.394 | 1 | 2 | 1.106599 |
| Gm9843 | 0.004749789 | 0.000271185 | 0.637 | 0.598 | 1 | 2 | 1.065217 |
| Ndufs5 | 0.004779663 | 0.049492157 | 0.565 | 0.526 | 1 | 2 | 1.074144 |
| Ccdc53 | 0.004819498 | 0.040060553 | 0.431 | 0.395 | 1 | 2 | 1.091139 |
| Rassf5 | 0.004878356 | 0.031549775 | 0.516 | 0.482 | 1 | 2 | 1.070539 |
| Cd53 | 0.004971474 | 0.06145783 | 0.909 | 0.878 | 1 | 2 | 1.035308 |
| Def6 | 0.005148222 | 0.016604737 | 0.413 | 0.388 | 1 | 2 | 1.064433 |
| Cmah | 0.005239216 | 0.002186436 | 0.29 | 0.282 | 1 | 2 | 1.028369 |
| Arglu1 | 0.005367862 | 0.050102674 | 0.54 | 0.482 | 1 | 2 | 1.120332 |
| Ppp1r10 | 0.005430493 | 0.047334962 | 0.262 | 0.23 | 1 | 2 | 1.13913 |
| Rpl29 | 0.00557785 | 0.001299158 | 0.405 | 0.376 | 1 | 2 | 1.077128 |
| Prdx5 | 0.005605926 | 0.012474 | 0.503 | 0.467 | 1 | 2 | 1.077088 |
| Synj2bp | 0.005797517 | 0.011240055 | 0.278 | 0.25 | 1 | 2 | 1.112 |
| Kcnab2 | 0.005976256 | 0.008122625 | 0.296 | 0.273 | 1 | 2 | 1.084249 |
| Nudcd3 | 0.005993953 | 0.048836386 | 0.462 | 0.409 | 1 | 2 | 1.129584 |
| Serinc1 | 0.006011101 | 0.006871276 | 0.256 | 0.238 | 1 | 2 | 1.07563 |
| Ucp2 | 0.006022356 | 0.057445577 | 0.815 | 0.762 | 1 | 2 | 1.069554 |
| Rbm39 | 0.006051807 | 0.059559731 | 0.97 | 0.96 | 1 | 2 | 1.010417 |
| Hnrnpul2 | 0.006096232 | 0.022847192 | 0.363 | 0.334 | 1 | 2 | 1.086826 |
| Ociad1 | 0.006167221 | 0.032281637 | 0.549 | 0.503 | 1 | 2 | 1.091451 |
| Ndufa7 | 0.006219667 | 0.05285859 | 0.779 | 0.726 | 1 | 2 | 1.073003 |
| Esd | 0.006272178 | 0.001649129 | 0.479 | 0.448 | 1 | 2 | 1.069196 |
| Ict1 | 0.006291985 | 0.008885277 | 0.503 | 0.464 | 1 | 2 | 1.084052 |
| Sptbn1 | 0.006526093 | 0.058570626 | 0.546 | 0.488 | 1 | 2 | 1.118852 |
| Ptbp3 | 0.006543657 | 0.038789212 | 0.533 | 0.48 | 1 | 2 | 1.110417 |
| Vamp8 | 0.00656314 | 0.023001843 | 0.525 | 0.483 | 1 | 2 | 1.086957 |
| Bptf | 0.006576867 | 0.059305578 | 0.433 | 0.405 | 1 | 2 | 1.069136 |
| Chd4 | 0.006582467 | 0.022152664 | 0.608 | 0.572 | 1 | 2 | 1.062937 |
| Rtfdc1 | 0.006586835 | 0.002657458 | 0.335 | 0.314 | 1 | 2 | 1.066879 |
| Nxf1 | 0.00664724 | 0.011049589 | 0.393 | 0.366 | 1 | 2 | 1.07377 |
| Ssh2 | 0.006668335 | 0.015687792 | 0.533 | 0.497 | 1 | 2 | 1.072435 |
| S1pr4 | 0.006974633 | 0.060036336 | 0.473 | 0.416 | 1 | 2 | 1.137019 |
| Sptssa | 0.007030035 | 0.002245381 | 0.436 | 0.41 | 1 | 2 | 1.063415 |
| Psme2 | 0.007079634 | 0.068662233 | 0.907 | 0.879 | 1 | 2 | 1.031854 |
| Pstpip1 | 0.007187121 | 0.006286993 | 0.29 | 0.27 | 1 | 2 | 1.074074 |
| Gng5 | 0.007403475 | 0.058802029 | 0.889 | 0.854 | 1 | 2 | 1.040984 |
| Igfbp1 | 0.007595825 | 0.024604304 | 0.351 | 0.327 | 1 | 2 | 1.073394 |
| Hcls1 | 0.007630327 | 0.023950369 | 0.482 | 0.449 | 1 | 2 | 1.073497 |
| BC005624 | 0.007655499 | 0.021414526 | 0.342 | 0.322 | 1 | 2 | 1.062112 |
| Cd27 | 0.007722604 | 0.075413305 | 0.861 | 0.832 | 1 | 2 | 1.034856 |
| Ubald2 | 0.007723541 | 0.025213317 | 0.508 | 0.462 | 1 | 2 | 1.099567 |
| Gtf2i | 0.007745622 | 0.030881833 | 0.48 | 0.438 | 1 | 2 | 1.09589 |
| mt-Nd5 | 0.007761473 | 0.004589479 | 0.644 | 0.603 | 1 | 2 | 1.067993 |
| Socs1 | 0.007770265 | 0.039745504 | 0.263 | 0.227 | 1 | 2 | 1.15859 |
| Chtop | 0.007877885 | 0.008372898 | 0.286 | 0.26 | 1 | 2 | 1.1 |
| Srrt | 0.007881391 | 0.030160423 | 0.299 | 0.262 | 1 | 2 | 1.141221 |
| Spn | 0.00790735 | 0.036825286 | 0.48 | 0.428 | 1 | 2 | 1.121495 |

| | | | | | | | | |
|---------------|-------------|-------------|-------|-------|-----------|---|---|----------|
| Sap18 | 0.007981437 | 0.019037628 | 0.573 | 0.534 | | 1 | 2 | 1.073034 |
| Rab2a | 0.00800573 | 0.004534622 | 0.568 | 0.556 | | 1 | 2 | 1.021583 |
| Tnfsf8 | 0.008012842 | 0.000155036 | 0.291 | 0.262 | | 1 | 2 | 1.110687 |
| Cd84 | 0.008029495 | 0.010360077 | 0.555 | 0.514 | | 1 | 2 | 1.079767 |
| Pdha1 | 0.008047884 | 0.043820585 | 0.353 | 0.309 | | 1 | 2 | 1.142395 |
| Gtf2h5 | 0.008050053 | 0.004200516 | 0.406 | 0.388 | | 1 | 2 | 1.046392 |
| Rrp1 | 0.008080988 | 0.00954413 | 0.565 | 0.524 | | 1 | 2 | 1.078244 |
| Dnajc8 | 0.008087917 | 0.021657396 | 0.667 | 0.632 | | 1 | 2 | 1.05538 |
| Ndufb10 | 0.008113124 | 0.053147194 | 0.667 | 0.612 | | 1 | 2 | 1.089869 |
| Mrps33 | 0.008744656 | 0.028531714 | 0.6 | 0.553 | | 1 | 2 | 1.084991 |
| Dhx9 | 0.009103656 | 0.008677945 | 0.291 | 0.264 | | 1 | 2 | 1.102273 |
| Kmt2a | 0.009506982 | 0.020884998 | 0.356 | 0.324 | | 1 | 2 | 1.098765 |
| Elf1 | 0.009630591 | 0.0594796 | 0.687 | 0.631 | | 1 | 2 | 1.088748 |
| Lsm4 | 0.009635543 | 0.007585524 | 0.678 | 0.659 | | 1 | 2 | 1.028832 |
| Trim26 | 0.009818846 | 0.018282176 | 0.287 | 0.253 | | 1 | 2 | 1.134387 |
| Ccl5 | 7.89E-235 | 2.02511367 | 0.587 | 0.258 | 7.84E-231 | | 3 | 2.275194 |
| Nkg7 | 9.54E-197 | 0.992788562 | 0.984 | 0.479 | 9.48E-193 | | 3 | 2.05428 |
| Samd3 | 6.08E-162 | 0.714173537 | 0.515 | 0.054 | 6.04E-158 | | 3 | 9.537037 |
| Cd8b1 | 3.62E-158 | 0.675504634 | 0.975 | 0.549 | 3.60E-154 | | 3 | 1.775956 |
| Gzmm | 1.09E-153 | 0.842068346 | 0.394 | 0.024 | 1.09E-149 | | 3 | 16.41667 |
| Cxcr3 | 1.10E-152 | 0.768684716 | 0.635 | 0.111 | 1.09E-148 | | 3 | 5.720721 |
| Ctla2a | 2.43E-131 | 0.863975149 | 0.372 | 0.03 | 2.42E-127 | | 3 | 12.4 |
| Ifitm10 | 2.75E-114 | 0.647759693 | 0.546 | 0.11 | 2.74E-110 | | 3 | 4.963636 |
| Cd8a | 1.17E-95 | 0.537474528 | 0.871 | 0.406 | 1.17E-91 | | 3 | 2.14532 |
| Eomes | 2.11E-87 | 0.593030233 | 0.46 | 0.099 | 2.10E-83 | | 3 | 4.646465 |
| G0s2 | 2.29E-86 | 0.611459501 | 0.501 | 0.121 | 2.27E-82 | | 3 | 4.140496 |
| St3gal6 | 3.49E-83 | 0.518932381 | 0.448 | 0.1 | 3.47E-79 | | 3 | 4.48 |
| Ctsw | 3.65E-83 | 0.599913871 | 0.825 | 0.415 | 3.63E-79 | | 3 | 1.987952 |
| Il2rb | 4.02E-69 | 0.503197739 | 0.462 | 0.123 | 3.99E-65 | | 3 | 3.756098 |
| Klrd1 | 2.06E-64 | 0.522880751 | 0.589 | 0.219 | 2.04E-60 | | 3 | 2.689498 |
| Tm6sf1 | 4.18E-60 | 0.463744151 | 0.407 | 0.109 | 4.15E-56 | | 3 | 3.733945 |
| Ly6c2 | 2.47E-55 | 0.472646901 | 0.764 | 0.41 | 2.46E-51 | | 3 | 1.863415 |
| Ms4a4c | 2.27E-53 | 0.525040804 | 0.725 | 0.396 | 2.26E-49 | | 3 | 1.830808 |
| Cst7 | 1.23E-51 | 0.449276563 | 0.464 | 0.16 | 1.22E-47 | | 3 | 2.9 |
| Ahnak | 6.97E-51 | 0.492068646 | 0.503 | 0.192 | 6.92E-47 | | 3 | 2.619792 |
| Ms4a4b | 1.43E-50 | 0.278071793 | 1 | 0.994 | 1.42E-46 | | 3 | 1.006036 |
| Ostf1 | 2.75E-49 | 0.384945206 | 0.914 | 0.695 | 2.73E-45 | | 3 | 1.315108 |
| Ly6c1 | 3.58E-49 | 0.456644327 | 0.655 | 0.317 | 3.56E-45 | | 3 | 2.066246 |
| Gramd3 | 6.39E-46 | 0.41866529 | 0.782 | 0.475 | 6.35E-42 | | 3 | 1.646316 |
| H2afz | 2.93E-45 | 0.386243221 | 0.959 | 0.857 | 2.91E-41 | | 3 | 1.11902 |
| Ifngr1 | 3.47E-43 | 0.391196252 | 0.731 | 0.429 | 3.45E-39 | | 3 | 1.703963 |
| Peak1 | 1.20E-41 | 0.370715026 | 0.415 | 0.146 | 1.19E-37 | | 3 | 2.842466 |
| 1700025G04Rik | 3.94E-39 | 0.360732356 | 0.349 | 0.113 | 3.92E-35 | | 3 | 3.088496 |
| Stat4 | 1.82E-38 | 0.37593915 | 0.501 | 0.226 | 1.81E-34 | | 3 | 2.216814 |
| Itgb1 | 5.14E-38 | 0.382630539 | 0.46 | 0.189 | 5.10E-34 | | 3 | 2.433862 |
| Sh2d1a | 9.01E-38 | 0.396735359 | 0.622 | 0.384 | 8.95E-34 | | 3 | 1.619792 |
| Plac8 | 1.01E-37 | 0.355023955 | 0.595 | 0.307 | 1.00E-33 | | 3 | 1.938111 |

| | | | | | | | |
|----------|----------|-------------|-------|-------|----------|---|----------|
| Pglyrp1 | 1.38E-37 | 0.387319158 | 0.382 | 0.136 | 1.37E-33 | 3 | 2.808824 |
| Hcst | 8.17E-35 | 0.308884674 | 0.981 | 0.857 | 8.12E-31 | 3 | 1.144691 |
| Rpl13 | 1.65E-34 | 0.129305319 | 1 | 1 | 1.64E-30 | 3 | 1 |
| Ptpn22 | 3.12E-32 | 0.355831823 | 0.511 | 0.263 | 3.10E-28 | 3 | 1.942966 |
| Itm2a | 5.47E-32 | 0.351468386 | 0.509 | 0.246 | 5.44E-28 | 3 | 2.069106 |
| Rps10 | 8.03E-31 | 0.130475089 | 1 | 1 | 7.98E-27 | 3 | 1 |
| Rps11 | 2.09E-30 | 0.113373547 | 1 | 1 | 2.08E-26 | 3 | 1 |
| Rpl37a | 1.30E-28 | 0.109569892 | 1 | 1 | 1.29E-24 | 3 | 1 |
| Rps5 | 1.47E-28 | 0.119984292 | 1 | 1 | 1.46E-24 | 3 | 1 |
| Rpl23a | 1.77E-27 | 0.121176398 | 1 | 1 | 1.76E-23 | 3 | 1 |
| Rplp0 | 2.12E-26 | 0.1286893 | 1 | 1 | 2.11E-22 | 3 | 1 |
| Gm8730 | 2.79E-26 | 0.139665614 | 1 | 1 | 2.77E-22 | 3 | 1 |
| Bbc3 | 3.77E-26 | 0.260909034 | 0.288 | 0.104 | 3.75E-22 | 3 | 2.769231 |
| Id3 | 1.45E-25 | 0.248802577 | 0.454 | 0.237 | 1.44E-21 | 3 | 1.915612 |
| Rpl18a | 3.27E-25 | 0.093930675 | 1 | 1 | 3.25E-21 | 3 | 1 |
| Zyx | 3.66E-24 | 0.284822451 | 0.361 | 0.158 | 3.63E-20 | 3 | 2.28481 |
| AW112010 | 1.44E-23 | 0.292914888 | 0.949 | 0.822 | 1.43E-19 | 3 | 1.154501 |
| Slamf6 | 3.82E-23 | 0.360055015 | 0.556 | 0.369 | 3.80E-19 | 3 | 1.506775 |
| Nsg2 | 5.11E-23 | 0.267293374 | 0.292 | 0.113 | 5.08E-19 | 3 | 2.584071 |
| Rpl32 | 6.00E-23 | 0.096415154 | 1 | 1 | 5.96E-19 | 3 | 1 |
| Arl5c | 1.03E-22 | 0.303419205 | 0.55 | 0.323 | 1.03E-18 | 3 | 1.702786 |
| Rps18 | 2.11E-21 | 0.09925092 | 1 | 1 | 2.10E-17 | 3 | 1 |
| Rps15 | 2.88E-21 | 0.104860402 | 1 | 1 | 2.87E-17 | 3 | 1 |
| Rps15a | 8.55E-21 | 0.097145384 | 1 | 1 | 8.50E-17 | 3 | 1 |
| Pde2a | 8.84E-21 | 0.252562484 | 0.277 | 0.11 | 8.78E-17 | 3 | 2.518182 |
| Rplp2 | 9.65E-21 | 0.107240078 | 1 | 1 | 9.59E-17 | 3 | 1 |
| Rps3 | 2.54E-20 | 0.088775892 | 1 | 1 | 2.52E-16 | 3 | 1 |
| Txk | 5.97E-20 | 0.249911649 | 0.789 | 0.586 | 5.94E-16 | 3 | 1.346416 |
| Xrn2 | 1.01E-19 | 0.239962411 | 0.834 | 0.657 | 1.01E-15 | 3 | 1.269406 |
| Rps17 | 1.22E-19 | 0.101430081 | 1 | 1 | 1.21E-15 | 3 | 1 |
| Gnas | 5.63E-19 | 0.209933529 | 0.951 | 0.857 | 5.60E-15 | 3 | 1.109685 |
| Rps23 | 9.81E-19 | 0.080680299 | 1 | 1 | 9.75E-15 | 3 | 1 |
| Klk8 | 1.92E-18 | 0.257640574 | 0.774 | 0.592 | 1.91E-14 | 3 | 1.307432 |
| Amica1 | 2.10E-18 | 0.224433658 | 0.292 | 0.131 | 2.09E-14 | 3 | 2.229008 |
| Runx3 | 3.94E-18 | 0.229386647 | 0.519 | 0.317 | 3.92E-14 | 3 | 1.637224 |
| Ctsd | 4.01E-18 | 0.247456594 | 0.704 | 0.533 | 3.98E-14 | 3 | 1.320826 |
| Higd1a | 5.22E-18 | 0.225869874 | 0.676 | 0.476 | 5.19E-14 | 3 | 1.420168 |
| Rpl37 | 5.93E-18 | 0.103228333 | 1 | 1 | 5.89E-14 | 3 | 1 |
| Rpl23 | 9.83E-18 | 0.104755398 | 1 | 1 | 9.77E-14 | 3 | 1 |
| Rpl27 | 1.03E-17 | 0.096538003 | 1 | 1 | 1.02E-13 | 3 | 1 |
| Preli2 | 1.66E-17 | 0.220196652 | 0.372 | 0.197 | 1.65E-13 | 3 | 1.888325 |
| Gnb2l1 | 2.94E-17 | 0.128412568 | 1 | 0.997 | 2.92E-13 | 3 | 1.003009 |
| Gng2 | 3.58E-17 | 0.199726492 | 0.257 | 0.112 | 3.56E-13 | 3 | 2.294643 |
| Rps3a1 | 3.88E-17 | 0.092942523 | 1 | 1 | 3.85E-13 | 3 | 1 |
| Bcl2 | 6.64E-17 | 0.186785866 | 0.901 | 0.749 | 6.60E-13 | 3 | 1.202937 |
| Thy1 | 8.82E-17 | 0.146292114 | 0.895 | 0.732 | 8.77E-13 | 3 | 1.222678 |
| Rpl9 | 1.25E-16 | 0.084958111 | 1 | 1 | 1.24E-12 | 3 | 1 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Tpst2 | 1.30E-16 | 0.217843807 | 0.558 | 0.369 | 1.29E-12 | 3 | 1.512195 |
| Il10rb | 2.05E-16 | 0.257452105 | 0.392 | 0.221 | 2.04E-12 | 3 | 1.773756 |
| Ehd3 | 2.33E-16 | 0.211750608 | 0.413 | 0.241 | 2.32E-12 | 3 | 1.713693 |
| Ptpn2 | 2.45E-16 | 0.089869444 | 0.378 | 0.256 | 2.44E-12 | 3 | 1.476563 |
| Dap | 5.61E-16 | 0.239038528 | 0.4 | 0.228 | 5.58E-12 | 3 | 1.754386 |
| Traf1 | 9.09E-16 | 0.222037043 | 0.472 | 0.285 | 9.04E-12 | 3 | 1.65614 |
| Ppm1h | 1.13E-15 | 0.19482231 | 0.316 | 0.162 | 1.12E-11 | 3 | 1.950617 |
| Gm10260 | 1.49E-15 | 0.110787156 | 1 | 1 | 1.48E-11 | 3 | 1 |
| Ppp1r14b | 2.04E-15 | 0.211206155 | 0.53 | 0.347 | 2.03E-11 | 3 | 1.527378 |
| Atp8b4 | 2.35E-15 | 0.193361736 | 0.329 | 0.174 | 2.34E-11 | 3 | 1.890805 |
| Mef2a | 2.55E-15 | 0.221970296 | 0.288 | 0.149 | 2.53E-11 | 3 | 1.932886 |
| Gpr183 | 5.59E-15 | 0.247107092 | 0.411 | 0.238 | 5.56E-11 | 3 | 1.726891 |
| Znrf2 | 6.73E-15 | 0.035869417 | 0.263 | 0.194 | 6.69E-11 | 3 | 1.35567 |
| B4galnt1 | 6.89E-15 | 0.196677166 | 0.819 | 0.667 | 6.85E-11 | 3 | 1.227886 |
| Rps8 | 1.41E-14 | 0.087832674 | 1 | 1 | 1.40E-10 | 3 | 1 |
| Gpr174 | 1.46E-14 | 0.184479884 | 0.335 | 0.182 | 1.46E-10 | 3 | 1.840659 |
| Tnfsf8 | 2.06E-14 | 0.063237966 | 0.37 | 0.256 | 2.04E-10 | 3 | 1.445313 |
| Prkca | 2.24E-14 | 0.016994036 | 0.308 | 0.235 | 2.23E-10 | 3 | 1.310638 |
| Pam16 | 3.06E-14 | 0.079822505 | 0.357 | 0.246 | 3.05E-10 | 3 | 1.45122 |
| Rpl18 | 4.46E-14 | 0.077540991 | 1 | 1 | 4.43E-10 | 3 | 1 |
| Mrps18b | 5.78E-14 | 0.013946971 | 0.296 | 0.232 | 5.75E-10 | 3 | 1.275862 |
| Gimap5 | 6.20E-14 | 0.176401832 | 0.591 | 0.413 | 6.16E-10 | 3 | 1.430993 |
| Rplp1 | 1.01E-13 | 0.08347037 | 1 | 1 | 9.99E-10 | 3 | 1 |
| Rpl17 | 1.01E-13 | 0.062223453 | 1 | 1 | 1.01E-09 | 3 | 1 |
| Hn1 | 1.25E-13 | 0.170150568 | 0.883 | 0.75 | 1.24E-09 | 3 | 1.177333 |
| Dnajc15 | 1.52E-13 | 0.19835186 | 0.485 | 0.321 | 1.51E-09 | 3 | 1.510903 |
| Tnfaip8 | 1.83E-13 | 0.210161713 | 0.452 | 0.281 | 1.82E-09 | 3 | 1.608541 |
| Ptp4a3 | 2.02E-13 | 0.190020938 | 0.561 | 0.388 | 2.01E-09 | 3 | 1.445876 |
| Snx5 | 2.05E-13 | 0.122989729 | 0.513 | 0.359 | 2.04E-09 | 3 | 1.428969 |
| mt-Nd4 | 2.49E-13 | 0.095780641 | 0.996 | 0.989 | 2.48E-09 | 3 | 1.007078 |
| Pfkip | 2.95E-13 | 0.165231298 | 0.435 | 0.275 | 2.94E-09 | 3 | 1.581818 |
| Smc4 | 3.05E-13 | 0.249000038 | 0.762 | 0.632 | 3.03E-09 | 3 | 1.205696 |
| Jak1 | 3.93E-13 | 0.188747314 | 0.928 | 0.84 | 3.91E-09 | 3 | 1.104762 |
| Arl6ip5 | 4.27E-13 | 0.185542081 | 0.844 | 0.702 | 4.25E-09 | 3 | 1.202279 |
| Cmah | 5.29E-13 | 0.16763665 | 0.427 | 0.27 | 5.26E-09 | 3 | 1.581481 |
| Sla | 5.64E-13 | 0.199554301 | 0.32 | 0.174 | 5.61E-09 | 3 | 1.83908 |
| Slc25a4 | 6.28E-13 | 0.156156033 | 0.809 | 0.652 | 6.25E-09 | 3 | 1.240798 |
| Rps24 | 6.48E-13 | 0.066333733 | 1 | 1 | 6.44E-09 | 3 | 1 |
| Me2 | 6.66E-13 | 0.115972002 | 0.556 | 0.402 | 6.62E-09 | 3 | 1.383085 |
| Vav1 | 6.84E-13 | 0.000403866 | 0.329 | 0.269 | 6.80E-09 | 3 | 1.223048 |
| Zap70 | 8.02E-13 | 0.039018508 | 0.47 | 0.365 | 7.97E-09 | 3 | 1.287671 |
| Rps28 | 8.30E-13 | 0.06776515 | 1 | 1 | 8.25E-09 | 3 | 1 |
| Nhp2 | 8.96E-13 | 0.126573083 | 0.632 | 0.473 | 8.91E-09 | 3 | 1.336152 |
| Ikzf3 | 8.98E-13 | 0.182486672 | 0.259 | 0.128 | 8.92E-09 | 3 | 2.023438 |
| Sgk1 | 1.09E-12 | 0.122114442 | 0.441 | 0.299 | 1.08E-08 | 3 | 1.474916 |
| Ly6e | 1.22E-12 | 0.091280011 | 0.491 | 0.354 | 1.22E-08 | 3 | 1.387006 |
| Rnf138 | 1.49E-12 | 0.212737287 | 0.481 | 0.315 | 1.48E-08 | 3 | 1.526984 |

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|---------------|----------|-------------|-------|-------|----------|---|----------|
| Rps9 | 1.70E-12 | 0.05149403 | 1 | 1 | 1.69E-08 | 3 | 1 |
| Prr13 | 2.50E-12 | 0.106088224 | 0.493 | 0.35 | 2.48E-08 | 3 | 1.408571 |
| Fnbp1 | 2.65E-12 | 0.006886825 | 0.365 | 0.297 | 2.64E-08 | 3 | 1.228956 |
| Exosc4 | 2.74E-12 | 0.053262102 | 0.349 | 0.257 | 2.72E-08 | 3 | 1.357977 |
| Armc7 | 3.36E-12 | 0.14714798 | 0.263 | 0.142 | 3.34E-08 | 3 | 1.852113 |
| Itgb2 | 3.54E-12 | 0.024298479 | 0.544 | 0.441 | 3.51E-08 | 3 | 1.23356 |
| Kbtbd11 | 3.57E-12 | 0.132563334 | 0.688 | 0.534 | 3.54E-08 | 3 | 1.28839 |
| Smarcb1 | 4.33E-12 | 0.035369827 | 0.273 | 0.203 | 4.31E-08 | 3 | 1.344828 |
| Rbbp7 | 4.80E-12 | 0.021037913 | 0.507 | 0.409 | 4.77E-08 | 3 | 1.239609 |
| Vps35 | 5.32E-12 | 0.017598116 | 0.304 | 0.241 | 5.29E-08 | 3 | 1.261411 |
| Rpf2 | 5.47E-12 | 0.047094708 | 0.318 | 0.231 | 5.44E-08 | 3 | 1.376623 |
| Prmt1 | 6.04E-12 | 0.005903416 | 0.567 | 0.473 | 6.00E-08 | 3 | 1.198732 |
| Rps6 | 6.19E-12 | 0.078760049 | 1 | 1 | 6.15E-08 | 3 | 1 |
| Sub1 | 7.29E-12 | 0.171717721 | 0.953 | 0.89 | 7.24E-08 | 3 | 1.070787 |
| Tmem256 | 9.41E-12 | 0.182124296 | 0.544 | 0.385 | 9.36E-08 | 3 | 1.412987 |
| Zbtb7a | 9.56E-12 | 0.102929129 | 0.452 | 0.32 | 9.50E-08 | 3 | 1.4125 |
| Sipa1 | 1.12E-11 | 0.133155944 | 0.491 | 0.344 | 1.11E-07 | 3 | 1.427326 |
| Sell | 1.14E-11 | 0.148946794 | 0.854 | 0.714 | 1.14E-07 | 3 | 1.196078 |
| Pgam1 | 1.17E-11 | 0.11780343 | 0.565 | 0.418 | 1.16E-07 | 3 | 1.351675 |
| Sidt1 | 1.65E-11 | 0.148908116 | 0.368 | 0.231 | 1.64E-07 | 3 | 1.593074 |
| Rps16 | 1.70E-11 | 0.071799459 | 1 | 1 | 1.69E-07 | 3 | 1 |
| Rps27l | 1.80E-11 | 0.024423919 | 0.782 | 0.666 | 1.79E-07 | 3 | 1.174174 |
| Sh2d2a | 2.75E-11 | 0.117575205 | 0.374 | 0.247 | 2.74E-07 | 3 | 1.51417 |
| Phb | 3.05E-11 | 0.027900823 | 0.446 | 0.354 | 3.03E-07 | 3 | 1.259887 |
| Bola3 | 3.18E-11 | 0.06305362 | 0.433 | 0.326 | 3.16E-07 | 3 | 1.328221 |
| Bsg | 3.54E-11 | 0.140376067 | 0.643 | 0.487 | 3.52E-07 | 3 | 1.320329 |
| Cuedc2 | 3.61E-11 | 0.112543339 | 0.255 | 0.151 | 3.59E-07 | 3 | 1.688742 |
| Usf2 | 3.62E-11 | 0.020479443 | 0.396 | 0.316 | 3.59E-07 | 3 | 1.253165 |
| D930015E06Rik | 4.71E-11 | 0.119303379 | 0.298 | 0.185 | 4.68E-07 | 3 | 1.610811 |
| Gm5900 | 4.75E-11 | 0.031456543 | 0.255 | 0.191 | 4.72E-07 | 3 | 1.335079 |
| Zfp36l2 | 5.20E-11 | 0.107398042 | 0.538 | 0.397 | 5.17E-07 | 3 | 1.355164 |
| Txn2 | 5.96E-11 | 0.044565143 | 0.606 | 0.494 | 5.93E-07 | 3 | 1.226721 |
| Calm2 | 8.50E-11 | 0.18702723 | 0.858 | 0.765 | 8.45E-07 | 3 | 1.121569 |
| Rpl4 | 9.10E-11 | 0.083166996 | 1 | 1 | 9.05E-07 | 3 | 1 |
| Hspe1 | 1.04E-10 | 0.17424139 | 0.912 | 0.838 | 1.03E-06 | 3 | 1.088305 |
| Nek7 | 1.10E-10 | 0.172485664 | 0.355 | 0.231 | 1.09E-06 | 3 | 1.536797 |
| Guk1 | 1.22E-10 | 0.013398639 | 0.413 | 0.339 | 1.21E-06 | 3 | 1.218289 |
| Cdc42ep3 | 1.29E-10 | 0.094783895 | 0.277 | 0.178 | 1.28E-06 | 3 | 1.55618 |
| Usp48 | 1.37E-10 | 0.129061412 | 0.333 | 0.211 | 1.36E-06 | 3 | 1.578199 |
| Npm3 | 1.89E-10 | 0.158783677 | 0.813 | 0.678 | 1.87E-06 | 3 | 1.199115 |
| Gm26917 | 2.27E-10 | 0.121059602 | 0.505 | 0.403 | 2.26E-06 | 3 | 1.253102 |
| Ubald2 | 2.34E-10 | 0.184437856 | 0.602 | 0.457 | 2.33E-06 | 3 | 1.317287 |
| Hipk1 | 2.43E-10 | 0.156575521 | 0.29 | 0.171 | 2.42E-06 | 3 | 1.695906 |
| Rbbp6 | 2.83E-10 | 0.023879086 | 0.499 | 0.405 | 2.81E-06 | 3 | 1.232099 |
| Sike1 | 2.96E-10 | 0.141212873 | 0.437 | 0.307 | 2.94E-06 | 3 | 1.423453 |
| Rpsa | 3.30E-10 | 0.090471213 | 1 | 1 | 3.28E-06 | 3 | 1 |
| Dennd1c | 3.32E-10 | 0.030985804 | 0.279 | 0.211 | 3.30E-06 | 3 | 1.322275 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Pabpc1 | 3.48E-10 | 0.117057282 | 0.996 | 0.982 | 3.46E-06 | 3 | 1.014257 |
| Pim2 | 3.54E-10 | 0.195804082 | 0.296 | 0.17 | 3.52E-06 | 3 | 1.741176 |
| Srp54b | 3.56E-10 | 0.008768889 | 0.349 | 0.288 | 3.54E-06 | 3 | 1.211806 |
| Glipr2 | 3.71E-10 | 0.129611143 | 0.483 | 0.342 | 3.69E-06 | 3 | 1.412281 |
| Fam96a | 4.13E-10 | 0.018545398 | 0.499 | 0.414 | 4.10E-06 | 3 | 1.205314 |
| Gar1 | 4.35E-10 | 0.067859571 | 0.413 | 0.308 | 4.32E-06 | 3 | 1.340909 |
| Sema4a | 4.42E-10 | 0.121918727 | 0.292 | 0.18 | 4.40E-06 | 3 | 1.622222 |
| Lsm1 | 4.57E-10 | 0.110351829 | 0.454 | 0.326 | 4.54E-06 | 3 | 1.392638 |
| Rpl36a | 4.81E-10 | 0.090978434 | 1 | 1 | 4.78E-06 | 3 | 1 |
| Babam1 | 5.05E-10 | 0.026588256 | 0.31 | 0.242 | 5.02E-06 | 3 | 1.280992 |
| Rps2 | 5.07E-10 | 0.08374993 | 1 | 1 | 5.04E-06 | 3 | 1 |
| Wac | 5.83E-10 | 0.039375863 | 0.337 | 0.256 | 5.80E-06 | 3 | 1.316406 |
| Dpy30 | 6.22E-10 | 0.004951544 | 0.442 | 0.369 | 6.18E-06 | 3 | 1.197832 |
| Rpl11 | 6.55E-10 | 0.064567276 | 1 | 1 | 6.52E-06 | 3 | 1 |
| Mta2 | 6.86E-10 | 0.018025573 | 0.298 | 0.237 | 6.82E-06 | 3 | 1.257384 |
| Eef1b2 | 7.82E-10 | 0.1244522 | 1 | 0.992 | 7.77E-06 | 3 | 1.008065 |
| Rpl28 | 8.00E-10 | 0.093248162 | 1 | 1 | 7.96E-06 | 3 | 1 |
| Mif | 9.96E-10 | 0.120465698 | 0.918 | 0.812 | 9.90E-06 | 3 | 1.130542 |
| Hsp90ab1 | 1.29E-09 | 0.118140983 | 0.979 | 0.932 | 1.29E-05 | 3 | 1.050429 |
| Fam169b | 1.38E-09 | 0.15628796 | 0.462 | 0.321 | 1.37E-05 | 3 | 1.439252 |
| Rpl35a | 1.45E-09 | 0.036559136 | 1 | 1 | 1.45E-05 | 3 | 1 |
| Ubxn4 | 1.56E-09 | 0.019644865 | 0.515 | 0.428 | 1.56E-05 | 3 | 1.203271 |
| Ebna1bp2 | 1.92E-09 | 0.081875463 | 0.487 | 0.37 | 1.91E-05 | 3 | 1.316216 |
| Rps14 | 1.99E-09 | 0.064066393 | 1 | 1 | 1.97E-05 | 3 | 1 |
| Rpl13a | 2.08E-09 | 0.058099642 | 1 | 1 | 2.07E-05 | 3 | 1 |
| Ly9 | 2.09E-09 | 0.095202575 | 0.47 | 0.347 | 2.08E-05 | 3 | 1.354467 |
| Ndufb9 | 2.53E-09 | 0.069983047 | 0.715 | 0.594 | 2.52E-05 | 3 | 1.203704 |
| Rpl35 | 2.61E-09 | 0.066528963 | 1 | 1 | 2.60E-05 | 3 | 1 |
| Taf15 | 2.70E-09 | 0.00026266 | 0.281 | 0.235 | 2.69E-05 | 3 | 1.195745 |
| Ostc | 2.75E-09 | 0.070584944 | 0.653 | 0.537 | 2.73E-05 | 3 | 1.216015 |
| Cir1 | 3.16E-09 | 0.011109961 | 0.273 | 0.213 | 3.14E-05 | 3 | 1.28169 |
| Gimap7 | 3.31E-09 | 0.147683829 | 0.665 | 0.528 | 3.29E-05 | 3 | 1.25947 |
| Mrpl11 | 3.41E-09 | 0.029817531 | 0.312 | 0.243 | 3.39E-05 | 3 | 1.283951 |
| Rfc2 | 3.72E-09 | 0.013643295 | 0.294 | 0.24 | 3.70E-05 | 3 | 1.225 |
| Sorl1 | 3.79E-09 | 0.149333639 | 0.271 | 0.156 | 3.77E-05 | 3 | 1.737179 |
| Ppp3ca | 4.08E-09 | 0.001999257 | 0.285 | 0.231 | 4.05E-05 | 3 | 1.233766 |
| Smim12 | 4.45E-09 | 0.011469627 | 0.287 | 0.235 | 4.42E-05 | 3 | 1.221277 |
| Rpl38 | 5.10E-09 | 0.081249965 | 1 | 1 | 5.07E-05 | 3 | 1 |
| Trp53 | 5.15E-09 | 0.054832526 | 0.717 | 0.603 | 5.12E-05 | 3 | 1.189055 |
| Bin2 | 5.32E-09 | 0.127653297 | 0.819 | 0.693 | 5.29E-05 | 3 | 1.181818 |
| Gnl3 | 5.71E-09 | 0.094369343 | 0.444 | 0.327 | 5.68E-05 | 3 | 1.357798 |
| Etfb | 6.00E-09 | 0.079745102 | 0.396 | 0.291 | 5.96E-05 | 3 | 1.360825 |
| Psmb5 | 6.07E-09 | 0.022948179 | 0.634 | 0.538 | 6.03E-05 | 3 | 1.178439 |
| Rpl15 | 6.64E-09 | 0.090852783 | 1 | 1 | 6.60E-05 | 3 | 1 |
| Cript | 8.11E-09 | 0.069737236 | 0.464 | 0.358 | 8.06E-05 | 3 | 1.296089 |
| Ddx18 | 8.24E-09 | 0.071849885 | 0.604 | 0.487 | 8.19E-05 | 3 | 1.240246 |
| Arap2 | 8.27E-09 | 0.103920286 | 0.285 | 0.184 | 8.22E-05 | 3 | 1.548913 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Gatad2a | 8.31E-09 | 0.028775248 | 0.304 | 0.239 | 8.26E-05 | 3 | 1.271967 |
| Trim26 | 8.34E-09 | 0.037292302 | 0.327 | 0.252 | 8.29E-05 | 3 | 1.297619 |
| Zmat5 | 8.44E-09 | 0.053461531 | 0.337 | 0.259 | 8.39E-05 | 3 | 1.301158 |
| Hnrnpab | 9.06E-09 | 0.011993492 | 0.571 | 0.484 | 9.01E-05 | 3 | 1.179752 |
| Selplg | 9.65E-09 | 0.144884941 | 0.926 | 0.841 | 9.60E-05 | 3 | 1.10107 |
| Akr1b3 | 1.07E-08 | 0.001163272 | 0.725 | 0.637 | 0.000106271 | 3 | 1.138148 |
| Rpa2 | 1.11E-08 | 0.124576465 | 0.31 | 0.197 | 0.000110498 | 3 | 1.573604 |
| Rpl8 | 1.20E-08 | 0.070430842 | 1 | 1 | 0.000119759 | 3 | 1 |
| Ftsj3 | 1.24E-08 | 0.05863043 | 0.29 | 0.209 | 0.000122954 | 3 | 1.38756 |
| Rpl27-ps3 | 1.45E-08 | 0.075039719 | 0.585 | 0.469 | 0.000144136 | 3 | 1.247335 |
| 4930453N24Rik | 1.89E-08 | 0.126423776 | 0.421 | 0.303 | 0.000188266 | 3 | 1.389439 |
| Dbnl | 1.95E-08 | 0.047607684 | 0.573 | 0.472 | 0.000193354 | 3 | 1.213983 |
| Cct8 | 2.09E-08 | 0.009926599 | 0.698 | 0.608 | 0.000207829 | 3 | 1.148026 |
| Pomp | 2.12E-08 | 0.021384709 | 0.791 | 0.695 | 0.000210968 | 3 | 1.138129 |
| Rpl23a-ps3 | 2.30E-08 | 0.128541621 | 0.977 | 0.945 | 0.00022887 | 3 | 1.033862 |
| Nol8 | 2.55E-08 | 0.099600401 | 0.283 | 0.186 | 0.000253358 | 3 | 1.521505 |
| Ccdc124 | 2.67E-08 | 0.009568516 | 0.372 | 0.309 | 0.000265204 | 3 | 1.203883 |
| Kti12 | 2.88E-08 | 0.05246583 | 0.267 | 0.195 | 0.000286377 | 3 | 1.369231 |
| Sae1 | 2.96E-08 | 0.038586622 | 0.316 | 0.245 | 0.000294598 | 3 | 1.289796 |
| Dbi | 2.99E-08 | 0.006576545 | 0.462 | 0.393 | 0.000297299 | 3 | 1.175573 |
| Itgb1bp1 | 3.09E-08 | 0.016615547 | 0.324 | 0.264 | 0.000307164 | 3 | 1.227273 |
| Trpc4ap | 3.09E-08 | 0.045177905 | 0.265 | 0.196 | 0.000307385 | 3 | 1.352041 |
| Chd7 | 3.35E-08 | 0.09203919 | 0.442 | 0.33 | 0.000333372 | 3 | 1.339394 |
| Fam58b | 3.51E-08 | 0.122151769 | 0.357 | 0.241 | 0.000348638 | 3 | 1.481328 |
| Rpl5 | 3.56E-08 | 0.044915582 | 0.998 | 0.998 | 0.000353373 | 3 | 1 |
| Ppp3cc | 3.66E-08 | 0.120256104 | 0.306 | 0.198 | 0.00036396 | 3 | 1.545455 |
| Cd7 | 3.85E-08 | 0.150784347 | 0.38 | 0.265 | 0.000382937 | 3 | 1.433962 |
| Chic2 | 4.06E-08 | 0.047782247 | 0.497 | 0.401 | 0.000403107 | 3 | 1.239401 |
| Rnf7 | 4.43E-08 | 0.027911225 | 0.528 | 0.442 | 0.000440217 | 3 | 1.19457 |
| H2afj | 4.69E-08 | 0.07729352 | 0.897 | 0.795 | 0.000466478 | 3 | 1.128302 |
| Pdcd4 | 5.34E-08 | 0.092657679 | 0.885 | 0.781 | 0.000531185 | 3 | 1.133163 |
| Rpl41 | 5.61E-08 | 0.061255428 | 1 | 1 | 0.000557322 | 3 | 1 |
| Vars | 6.13E-08 | 0.12888927 | 0.345 | 0.23 | 0.000609031 | 3 | 1.5 |
| Bbx | 6.23E-08 | 0.024001758 | 0.265 | 0.211 | 0.000619261 | 3 | 1.255924 |
| Cdk4 | 6.29E-08 | 0.024766772 | 0.637 | 0.544 | 0.000625033 | 3 | 1.170956 |
| Zwint | 6.46E-08 | 0.029270362 | 0.31 | 0.244 | 0.000642491 | 3 | 1.270492 |
| Zmat2 | 6.97E-08 | 0.000183043 | 0.554 | 0.481 | 0.000692413 | 3 | 1.151767 |
| Asf1a | 7.24E-08 | 0.089396096 | 0.306 | 0.214 | 0.000719514 | 3 | 1.429907 |
| Timm10 | 7.56E-08 | 0.072633621 | 0.277 | 0.194 | 0.000751397 | 3 | 1.427835 |
| Rtcb | 8.61E-08 | 0.000541494 | 0.472 | 0.407 | 0.000855592 | 3 | 1.159705 |
| Fam46a | 8.94E-08 | 0.129702699 | 0.279 | 0.175 | 0.000888942 | 3 | 1.594286 |
| Rps12 | 9.12E-08 | 0.112545207 | 1 | 0.999 | 0.000906824 | 3 | 1.001001 |
| Polr3k | 9.47E-08 | 0.098479311 | 0.298 | 0.201 | 0.000941731 | 3 | 1.482587 |
| Lyar | 9.97E-08 | 0.023069869 | 0.335 | 0.27 | 0.000990748 | 3 | 1.240741 |
| Rpl36 | 1.04E-07 | 0.047620826 | 1 | 1 | 0.001037514 | 3 | 1 |
| Txndc17 | 1.05E-07 | 0.011255971 | 0.495 | 0.422 | 0.001039869 | 3 | 1.172986 |
| Mrpl57 | 1.06E-07 | 0.000171556 | 0.53 | 0.463 | 0.001054212 | 3 | 1.144708 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Kcnab2 | 1.06E-07 | 0.016209579 | 0.331 | 0.271 | 0.001057763 | 3 | 1.221402 |
| Arhgef3 | 1.07E-07 | 0.085149228 | 0.259 | 0.173 | 0.001058812 | 3 | 1.49711 |
| Pgls | 1.11E-07 | 0.022211318 | 0.563 | 0.476 | 0.001107671 | 3 | 1.182773 |
| Acp5 | 1.15E-07 | 0.006726252 | 0.602 | 0.519 | 0.001141467 | 3 | 1.159923 |
| Otulin | 1.15E-07 | 0.11157487 | 0.337 | 0.238 | 0.001146786 | 3 | 1.415966 |
| Nudt19 | 1.20E-07 | 0.009997675 | 0.265 | 0.217 | 0.001191336 | 3 | 1.221198 |
| Rab8a | 1.21E-07 | 0.04225062 | 0.558 | 0.46 | 0.001201523 | 3 | 1.213043 |
| Cnot6l | 1.23E-07 | 0.124554827 | 0.489 | 0.369 | 0.001219763 | 3 | 1.325203 |
| Eif3j1 | 1.26E-07 | 0.020175484 | 0.425 | 0.352 | 0.001257132 | 3 | 1.207386 |
| Ubl4a | 1.28E-07 | 0.01259766 | 0.304 | 0.248 | 0.001276067 | 3 | 1.225806 |
| Commd7 | 1.31E-07 | 0.024122717 | 0.374 | 0.306 | 0.001307 | 3 | 1.222222 |
| Vps13a | 1.39E-07 | 0.012325217 | 0.269 | 0.221 | 0.001386298 | 3 | 1.217195 |
| Cdk5rap3 | 1.39E-07 | 0.120119284 | 0.32 | 0.227 | 0.001386305 | 3 | 1.409692 |
| Gapdh | 1.41E-07 | 0.003208483 | 0.885 | 0.8 | 0.001405299 | 3 | 1.10625 |
| Zkscan3 | 1.50E-07 | 0.070061735 | 0.253 | 0.176 | 0.001493945 | 3 | 1.4375 |
| Sdhd | 1.61E-07 | 0.006038366 | 0.365 | 0.308 | 0.001599636 | 3 | 1.185065 |
| 1810022K09Rik | 1.62E-07 | 0.01627088 | 0.481 | 0.406 | 0.001609133 | 3 | 1.184729 |
| Hspa9 | 1.63E-07 | 0.026369907 | 0.522 | 0.436 | 0.001620399 | 3 | 1.197248 |
| Efr3a | 1.65E-07 | 0.084233246 | 0.48 | 0.369 | 0.001640944 | 3 | 1.300813 |
| Klhl6 | 1.71E-07 | 0.048680786 | 0.505 | 0.408 | 0.001701994 | 3 | 1.237745 |
| Hspd1 | 1.73E-07 | 0.038476829 | 0.569 | 0.472 | 0.001719871 | 3 | 1.205508 |
| Pin1 | 1.78E-07 | 0.001518834 | 0.322 | 0.277 | 0.001765441 | 3 | 1.162455 |
| Rbfa | 1.81E-07 | 0.002510014 | 0.267 | 0.229 | 0.001802186 | 3 | 1.165939 |
| Acaa2 | 1.85E-07 | 0.02622625 | 0.468 | 0.389 | 0.001840204 | 3 | 1.203085 |
| Fam189b | 1.90E-07 | 0.086315696 | 0.7 | 0.579 | 0.001884157 | 3 | 1.208981 |
| Zcchc11 | 1.96E-07 | 0.04680247 | 0.409 | 0.324 | 0.001946772 | 3 | 1.262346 |
| Lrmp | 2.02E-07 | 0.097331696 | 0.345 | 0.243 | 0.00200349 | 3 | 1.419753 |
| Twistnb | 2.09E-07 | 0.000980387 | 0.411 | 0.354 | 0.002074503 | 3 | 1.161017 |
| Ugcg | 2.10E-07 | 0.084806901 | 0.273 | 0.185 | 0.002083866 | 3 | 1.475676 |
| Cd28 | 2.18E-07 | 0.040481184 | 0.591 | 0.494 | 0.002166447 | 3 | 1.196356 |
| Pdcd5 | 2.29E-07 | 0.051974763 | 0.538 | 0.439 | 0.002274598 | 3 | 1.225513 |
| Aars | 2.30E-07 | 0.016501611 | 0.368 | 0.306 | 0.002287337 | 3 | 1.202614 |
| Nrros | 2.41E-07 | 0.059069541 | 0.257 | 0.183 | 0.002395637 | 3 | 1.404372 |
| Vdac1 | 2.52E-07 | 0.026714824 | 0.324 | 0.261 | 0.002507534 | 3 | 1.241379 |
| Rnmt | 2.54E-07 | 0.037971256 | 0.253 | 0.194 | 0.002527746 | 3 | 1.304124 |
| Rpl10a | 2.68E-07 | 0.067186039 | 1 | 1 | 0.002667448 | 3 | 1 |
| Sep-01 | 2.74E-07 | 0.113805963 | 0.969 | 0.912 | 0.002723065 | 3 | 1.0625 |
| Klf2 | 2.84E-07 | 0.027415316 | 0.981 | 0.943 | 0.002822572 | 3 | 1.040297 |
| E2f4 | 2.92E-07 | 0.016553279 | 0.271 | 0.221 | 0.002902239 | 3 | 1.226244 |
| Hmox2 | 3.09E-07 | 0.009536747 | 0.335 | 0.283 | 0.003073784 | 3 | 1.183746 |
| Anxa6 | 3.17E-07 | 0.126381604 | 0.713 | 0.59 | 0.003147667 | 3 | 1.208475 |
| Arhgap9 | 3.30E-07 | 0.121156794 | 0.643 | 0.528 | 0.003279443 | 3 | 1.217803 |
| Las1l | 3.46E-07 | 0.005220659 | 0.263 | 0.222 | 0.003441182 | 3 | 1.184685 |
| Desi2 | 3.47E-07 | 0.026219605 | 0.285 | 0.227 | 0.003452027 | 3 | 1.255507 |
| Cpsf3 | 3.56E-07 | 0.01783648 | 0.255 | 0.209 | 0.003540553 | 3 | 1.220096 |
| Spata13 | 3.89E-07 | 0.10533127 | 0.3 | 0.204 | 0.003870202 | 3 | 1.470588 |
| Atp11b | 3.90E-07 | 0.005949909 | 0.464 | 0.397 | 0.003881511 | 3 | 1.168766 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Fryl | 4.19E-07 | 0.093415256 | 0.29 | 0.198 | 0.004164762 | 3 | 1.464646 |
| Tbc1d10c | 4.29E-07 | 0.048073992 | 0.745 | 0.645 | 0.004266402 | 3 | 1.155039 |
| Dpcd | 4.45E-07 | 0.107182172 | 0.368 | 0.261 | 0.004423026 | 3 | 1.409962 |
| Ndufb6 | 4.48E-07 | 0.018637726 | 0.495 | 0.422 | 0.004457917 | 3 | 1.172986 |
| Tpd52l2 | 4.49E-07 | 0.004520206 | 0.308 | 0.263 | 0.004458742 | 3 | 1.171103 |
| Sf3b4 | 4.50E-07 | 0.000186939 | 0.365 | 0.313 | 0.004469516 | 3 | 1.166134 |
| Baz1a | 4.67E-07 | 0.041752869 | 0.253 | 0.19 | 0.004645614 | 3 | 1.331579 |
| Cwc15 | 4.72E-07 | 0.037642248 | 0.571 | 0.479 | 0.004692696 | 3 | 1.192067 |
| Pbxip1 | 5.00E-07 | 0.014594569 | 0.345 | 0.287 | 0.004965437 | 3 | 1.202091 |
| Svbp | 5.13E-07 | 0.079317173 | 0.417 | 0.321 | 0.005100387 | 3 | 1.299065 |
| Gspt1 | 5.15E-07 | 0.038426959 | 0.394 | 0.316 | 0.005115995 | 3 | 1.246835 |
| Smim4 | 5.24E-07 | 0.062983791 | 0.448 | 0.358 | 0.005212511 | 3 | 1.251397 |
| Zfos1 | 5.68E-07 | 0.016810816 | 0.571 | 0.489 | 0.005645504 | 3 | 1.167689 |
| Trim27 | 5.78E-07 | 0.025481385 | 0.402 | 0.331 | 0.005742986 | 3 | 1.214502 |
| Itch | 5.87E-07 | 0.08780485 | 0.306 | 0.215 | 0.005839401 | 3 | 1.423256 |
| Atf7ip | 6.08E-07 | 0.01591927 | 0.472 | 0.398 | 0.006043762 | 3 | 1.18593 |
| Adipor1 | 6.33E-07 | 0.028073215 | 0.384 | 0.316 | 0.00629501 | 3 | 1.21519 |
| Fyn | 6.38E-07 | 0.078473529 | 0.454 | 0.352 | 0.006340698 | 3 | 1.289773 |
| Tiprl | 6.47E-07 | 0.046746716 | 0.322 | 0.25 | 0.006432725 | 3 | 1.288 |
| Mrto4 | 6.91E-07 | 0.049722574 | 0.366 | 0.286 | 0.006864924 | 3 | 1.27972 |
| Pcif1 | 7.27E-07 | 0.028417611 | 0.374 | 0.304 | 0.007226358 | 3 | 1.230263 |
| Pstpip1 | 7.29E-07 | 0.020108993 | 0.329 | 0.268 | 0.007245468 | 3 | 1.227612 |
| Ndufa10 | 7.30E-07 | 0.031482313 | 0.579 | 0.49 | 0.007259471 | 3 | 1.181633 |
| Vmp1 | 8.08E-07 | 0.051154954 | 0.281 | 0.21 | 0.008033942 | 3 | 1.338095 |
| Man1a | 8.09E-07 | 0.057914714 | 0.361 | 0.277 | 0.008044983 | 3 | 1.303249 |
| 2310039H08Rik | 8.10E-07 | 0.080021594 | 0.302 | 0.216 | 0.008051243 | 3 | 1.398148 |
| Stoml2 | 8.16E-07 | 0.02990137 | 0.285 | 0.228 | 0.008108608 | 3 | 1.25 |
| Rps20 | 8.28E-07 | 0.071734845 | 1 | 1 | 0.008230638 | 3 | 1 |
| AB124611 | 8.50E-07 | 0.096610205 | 0.396 | 0.292 | 0.00844839 | 3 | 1.356164 |
| Nubp1 | 8.76E-07 | 0.024874442 | 0.39 | 0.323 | 0.00870837 | 3 | 1.20743 |
| Mtdh | 8.87E-07 | 0.026493775 | 0.628 | 0.539 | 0.008821191 | 3 | 1.165121 |
| Rae1 | 8.91E-07 | 0.063788061 | 0.4 | 0.311 | 0.008853731 | 3 | 1.286174 |
| mt-Nd3 | 9.22E-07 | 0.102161191 | 0.682 | 0.569 | 0.009167169 | 3 | 1.198594 |
| Eif4e2 | 9.42E-07 | 0.068027709 | 0.396 | 0.304 | 0.009359223 | 3 | 1.302632 |
| Rpl27a | 9.42E-07 | 0.055902939 | 1 | 1 | 0.009361665 | 3 | 1 |
| Calm3 | 9.96E-07 | 0.007067254 | 0.55 | 0.479 | 0.00989617 | 3 | 1.148225 |
| Trmt112 | 1.00E-06 | 0.10869604 | 0.768 | 0.653 | 0.009988401 | 3 | 1.17611 |
| Rpl9-ps6 | 1.01E-06 | 0.077958974 | 0.423 | 0.324 | 0.010010526 | 3 | 1.305556 |
| Ppp1r10 | 1.02E-06 | 0.004206853 | 0.277 | 0.23 | 0.010177199 | 3 | 1.204348 |
| Naa50 | 1.05E-06 | 0.07168488 | 0.269 | 0.191 | 0.010437656 | 3 | 1.408377 |
| Rnaseh2c | 1.08E-06 | 0.00748773 | 0.366 | 0.311 | 0.010733802 | 3 | 1.176849 |
| Txn1 | 1.12E-06 | 0.070985018 | 0.731 | 0.623 | 0.011175869 | 3 | 1.173355 |
| Arcp1b | 1.15E-06 | 0.076936183 | 0.986 | 0.955 | 0.011395701 | 3 | 1.032461 |
| Zfp148 | 1.15E-06 | 0.035548314 | 0.302 | 0.237 | 0.011402033 | 3 | 1.274262 |
| Dpm3 | 1.19E-06 | 0.047511278 | 0.674 | 0.575 | 0.011803433 | 3 | 1.172174 |
| Yrdc | 1.20E-06 | 0.072978556 | 0.292 | 0.211 | 0.011878539 | 3 | 1.383886 |
| Rpl34 | 1.22E-06 | 0.049877054 | 1 | 1 | 0.012082981 | 3 | 1 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Nhp2l1 | 1.25E-06 | 0.028175048 | 0.671 | 0.583 | 0.012402214 | 3 | 1.150943 |
| Bod1l | 1.27E-06 | 0.040577148 | 0.583 | 0.491 | 0.012660901 | 3 | 1.187373 |
| Eml4 | 1.30E-06 | 0.012540139 | 0.347 | 0.289 | 0.012923306 | 3 | 1.200692 |
| Ube2a | 1.32E-06 | 0.004874089 | 0.345 | 0.295 | 0.01311372 | 3 | 1.169492 |
| Rsl1d1 | 1.33E-06 | 0.025066767 | 0.524 | 0.444 | 0.013177776 | 3 | 1.18018 |
| Ssbp4 | 1.34E-06 | 0.095655287 | 0.402 | 0.303 | 0.013313613 | 3 | 1.326733 |
| Abi1 | 1.37E-06 | 0.03257525 | 0.304 | 0.242 | 0.01359429 | 3 | 1.256198 |
| Hdac7 | 1.39E-06 | 0.113909447 | 0.265 | 0.172 | 0.013791359 | 3 | 1.540698 |
| Cyfp2 | 1.46E-06 | 0.026419662 | 0.279 | 0.221 | 0.014471188 | 3 | 1.262443 |
| Elf1 | 1.46E-06 | 0.067218017 | 0.735 | 0.631 | 0.014559877 | 3 | 1.164818 |
| Plekha2 | 1.47E-06 | 0.110466853 | 0.326 | 0.225 | 0.014584097 | 3 | 1.448889 |
| Pkn1 | 1.47E-06 | 0.007560312 | 0.31 | 0.261 | 0.014657452 | 3 | 1.187739 |
| Ddx21 | 1.49E-06 | 0.062182624 | 0.585 | 0.483 | 0.014765349 | 3 | 1.21118 |
| Cct2 | 1.54E-06 | 0.030451638 | 0.624 | 0.541 | 0.015318139 | 3 | 1.15342 |
| Rasa2 | 1.56E-06 | 0.078337962 | 0.318 | 0.231 | 0.015513694 | 3 | 1.376623 |
| Nifk | 1.67E-06 | 0.015261481 | 0.32 | 0.263 | 0.016644969 | 3 | 1.21673 |
| Mrpl4 | 1.67E-06 | 0.069382285 | 0.343 | 0.259 | 0.016645455 | 3 | 1.324324 |
| Rpl36al | 1.68E-06 | 0.034183764 | 0.994 | 0.988 | 0.016685544 | 3 | 1.006073 |
| Sep-06 | 1.69E-06 | 0.041717227 | 0.618 | 0.528 | 0.016750894 | 3 | 1.170455 |
| Itgal | 1.72E-06 | 0.069509498 | 0.292 | 0.213 | 0.017116202 | 3 | 1.370892 |
| Nsun2 | 1.79E-06 | 0.037572495 | 0.419 | 0.342 | 0.017830537 | 3 | 1.225146 |
| mt-Co1 | 1.81E-06 | 0.027783006 | 1 | 1 | 0.017984345 | 3 | 1 |
| Gm10076 | 1.82E-06 | 0.113875887 | 0.965 | 0.938 | 0.018122617 | 3 | 1.028785 |
| Ube2s | 1.84E-06 | 0.001909665 | 0.456 | 0.398 | 0.018250219 | 3 | 1.145729 |
| Ccdc12 | 1.84E-06 | 0.041391891 | 0.712 | 0.615 | 0.01827359 | 3 | 1.157724 |
| Saraf | 1.89E-06 | 0.079804521 | 0.809 | 0.707 | 0.018784584 | 3 | 1.144272 |
| Smarce1 | 1.94E-06 | 0.051288082 | 0.402 | 0.321 | 0.019288824 | 3 | 1.252336 |
| Nop56 | 1.95E-06 | 0.007252237 | 0.589 | 0.511 | 0.019390162 | 3 | 1.152642 |
| Prex1 | 1.97E-06 | 0.104954396 | 0.292 | 0.2 | 0.01961413 | 3 | 1.46 |
| Epn1 | 2.02E-06 | 0.0218608 | 0.257 | 0.205 | 0.020073368 | 3 | 1.253659 |
| Drg1 | 2.05E-06 | 0.037488049 | 0.324 | 0.259 | 0.020409014 | 3 | 1.250965 |
| Idh3a | 2.09E-06 | 0.029689075 | 0.279 | 0.221 | 0.020762263 | 3 | 1.262443 |
| Tomm70a | 2.10E-06 | 0.028919906 | 0.296 | 0.238 | 0.020825908 | 3 | 1.243697 |
| Eri1 | 2.14E-06 | 0.017304569 | 0.312 | 0.258 | 0.021223975 | 3 | 1.209302 |
| Klf6 | 2.14E-06 | 0.0487132 | 0.366 | 0.287 | 0.021249871 | 3 | 1.275261 |
| Denr | 2.21E-06 | 0.023881246 | 0.46 | 0.387 | 0.02191949 | 3 | 1.18863 |
| Fgfr1op2 | 2.29E-06 | 0.05526566 | 0.54 | 0.443 | 0.022720646 | 3 | 1.218962 |
| Mob1a | 2.30E-06 | 0.004328522 | 0.251 | 0.211 | 0.022830117 | 3 | 1.189573 |
| Psm14 | 2.30E-06 | 0.020302737 | 0.409 | 0.344 | 0.022907765 | 3 | 1.188953 |
| Ccdc115 | 2.31E-06 | 0.032511753 | 0.345 | 0.279 | 0.022930911 | 3 | 1.236559 |
| Gm10073 | 2.34E-06 | 0.095778492 | 0.914 | 0.83 | 0.023218226 | 3 | 1.101205 |
| Snrnp40 | 2.34E-06 | 0.032542262 | 0.407 | 0.337 | 0.023235981 | 3 | 1.207715 |
| Fam204a | 2.34E-06 | 0.052187587 | 0.353 | 0.275 | 0.02323917 | 3 | 1.283636 |
| Plekhj1 | 2.37E-06 | 0.056650864 | 0.635 | 0.535 | 0.023566351 | 3 | 1.186916 |
| Rps4x | 2.38E-06 | 0.057689474 | 1 | 1 | 0.023614623 | 3 | 1 |
| Rap1a | 2.41E-06 | 0.080027912 | 0.708 | 0.602 | 0.023982446 | 3 | 1.17608 |
| Aimp1 | 2.42E-06 | 0.02236247 | 0.511 | 0.434 | 0.02402443 | 3 | 1.177419 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Jtb | 2.43E-06 | 0.015995147 | 0.462 | 0.395 | 0.02413804 | 3 | 1.16962 |
| Hsd11b1 | 2.60E-06 | 0.087543412 | 0.368 | 0.28 | 0.02583053 | 3 | 1.314286 |
| Rpl39 | 2.61E-06 | 0.05314657 | 1 | 1 | 0.025957819 | 3 | 1 |
| Sash3 | 2.63E-06 | 0.012779381 | 0.402 | 0.339 | 0.026154255 | 3 | 1.185841 |
| N6amt1 | 2.66E-06 | 0.045398455 | 0.265 | 0.199 | 0.02642737 | 3 | 1.331658 |
| Pik3cd | 2.66E-06 | 0.025823683 | 0.384 | 0.318 | 0.026472721 | 3 | 1.207547 |
| Tacc1 | 2.69E-06 | 0.062252997 | 0.253 | 0.182 | 0.026719686 | 3 | 1.39011 |
| Ncf4 | 2.69E-06 | 0.094449445 | 0.333 | 0.239 | 0.026758843 | 3 | 1.393305 |
| Tle4 | 2.69E-06 | 0.059487341 | 0.316 | 0.238 | 0.026776913 | 3 | 1.327731 |
| Vps36 | 2.72E-06 | 0.021516383 | 0.324 | 0.265 | 0.027034267 | 3 | 1.222642 |
| Trnau1ap | 2.73E-06 | 0.038365375 | 0.283 | 0.222 | 0.027120566 | 3 | 1.274775 |
| Set | 2.93E-06 | 0.040529111 | 0.815 | 0.719 | 0.029077521 | 3 | 1.133519 |
| Dock2 | 2.93E-06 | 0.042405959 | 0.604 | 0.511 | 0.029141803 | 3 | 1.181996 |
| Arpc5l | 2.96E-06 | 0.070156172 | 0.688 | 0.582 | 0.029428217 | 3 | 1.182131 |
| Mcts1 | 3.07E-06 | 0.049147491 | 0.394 | 0.314 | 0.030489569 | 3 | 1.254777 |
| Mrps23 | 3.09E-06 | 0.03106676 | 0.326 | 0.265 | 0.030680336 | 3 | 1.230189 |
| Blmh | 3.16E-06 | 0.036541603 | 0.271 | 0.211 | 0.031360947 | 3 | 1.28436 |
| Cuta | 3.24E-06 | 0.024356499 | 0.546 | 0.468 | 0.032174945 | 3 | 1.166667 |
| Emc6 | 3.26E-06 | 0.016362456 | 0.513 | 0.447 | 0.032399541 | 3 | 1.147651 |
| Uba52 | 3.28E-06 | 0.056005457 | 0.998 | 0.996 | 0.032559821 | 3 | 1.002008 |
| Rap1b | 3.30E-06 | 0.01966608 | 0.815 | 0.735 | 0.03280325 | 3 | 1.108844 |
| Fli1 | 3.47E-06 | 0.004622467 | 0.298 | 0.251 | 0.034532788 | 3 | 1.187251 |
| Mrps36 | 3.63E-06 | 0.001355615 | 0.38 | 0.33 | 0.036108147 | 3 | 1.151515 |
| Paip2 | 3.71E-06 | 0.037551785 | 0.729 | 0.637 | 0.036866871 | 3 | 1.144427 |
| Nr3c1 | 3.72E-06 | 0.026351369 | 0.31 | 0.248 | 0.036997111 | 3 | 1.25 |
| Eef1e1 | 3.72E-06 | 0.035641327 | 0.316 | 0.252 | 0.037021454 | 3 | 1.253968 |
| Ndufa12 | 3.77E-06 | 0.014530496 | 0.63 | 0.551 | 0.037463893 | 3 | 1.143376 |
| Eif3d | 3.82E-06 | 0.037657107 | 0.462 | 0.385 | 0.037959704 | 3 | 1.2 |
| Mpc2 | 3.98E-06 | 0.001019188 | 0.476 | 0.419 | 0.039589062 | 3 | 1.136038 |
| Pqbp1 | 3.98E-06 | 0.011029359 | 0.287 | 0.245 | 0.039599011 | 3 | 1.171429 |
| Nck1 | 4.17E-06 | 0.113166174 | 0.333 | 0.235 | 0.041430287 | 3 | 1.417021 |
| Mri1 | 4.26E-06 | 0.052504551 | 0.257 | 0.193 | 0.042382564 | 3 | 1.331606 |
| Mtfr1l | 4.41E-06 | 0.0409062 | 0.337 | 0.268 | 0.043835582 | 3 | 1.257463 |
| Mrps16 | 4.43E-06 | 0.069853158 | 0.546 | 0.461 | 0.044019288 | 3 | 1.184382 |
| Pa2g4 | 4.48E-06 | 0.109383706 | 0.544 | 0.428 | 0.044487293 | 3 | 1.271028 |
| Impdh2 | 4.53E-06 | 0.07312309 | 0.55 | 0.452 | 0.045060034 | 3 | 1.216814 |
| Sar1a | 4.55E-06 | 0.012517369 | 0.361 | 0.306 | 0.04520671 | 3 | 1.179739 |
| H2-Ke6 | 4.75E-06 | 0.030999646 | 0.495 | 0.429 | 0.047246626 | 3 | 1.153846 |
| Copb2 | 4.85E-06 | 0.025487438 | 0.335 | 0.276 | 0.048209203 | 3 | 1.213768 |
| Metap2 | 4.96E-06 | 0.01222283 | 0.522 | 0.453 | 0.049328876 | 3 | 1.152318 |
| Polr2h | 4.98E-06 | 0.003999144 | 0.283 | 0.24 | 0.049521571 | 3 | 1.179167 |
| Nmd3 | 5.04E-06 | 0.029899942 | 0.251 | 0.199 | 0.05005085 | 3 | 1.261307 |
| Eif1a | 5.18E-06 | 0.017455267 | 0.283 | 0.23 | 0.051468589 | 3 | 1.230435 |
| Was | 5.18E-06 | 0.028896194 | 0.433 | 0.362 | 0.051501502 | 3 | 1.196133 |
| Utp3 | 5.19E-06 | 0.010242268 | 0.431 | 0.371 | 0.051636607 | 3 | 1.161725 |
| Tmed5 | 5.28E-06 | 0.065268447 | 0.39 | 0.303 | 0.052443196 | 3 | 1.287129 |
| Zmynd11 | 5.72E-06 | 0.018814356 | 0.255 | 0.205 | 0.056850959 | 3 | 1.243902 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Srsf6 | 5.78E-06 | 0.011721978 | 0.476 | 0.409 | 0.057413882 | 3 | 1.163814 |
| Ikbkb | 6.12E-06 | 0.005882095 | 0.534 | 0.468 | 0.060863539 | 3 | 1.141026 |
| Emc2 | 6.25E-06 | 0.007185827 | 0.312 | 0.265 | 0.062170168 | 3 | 1.177358 |
| Chmp1a | 6.32E-06 | 0.018458341 | 0.269 | 0.22 | 0.062788405 | 3 | 1.222727 |
| Mettl1 | 6.57E-06 | 0.0715502 | 0.326 | 0.243 | 0.065266916 | 3 | 1.341564 |
| Park7 | 6.72E-06 | 0.107976421 | 0.893 | 0.812 | 0.066748656 | 3 | 1.099754 |
| Samm50 | 7.28E-06 | 0.018769713 | 0.407 | 0.347 | 0.072397602 | 3 | 1.172911 |
| Trappc6a | 7.34E-06 | 0.10753255 | 0.415 | 0.31 | 0.072992441 | 3 | 1.33871 |
| Rinl | 7.58E-06 | 0.056987122 | 0.637 | 0.539 | 0.075298488 | 3 | 1.181818 |
| Fam162a | 7.79E-06 | 0.000791456 | 0.382 | 0.331 | 0.077473847 | 3 | 1.154079 |
| Eif3c | 7.80E-06 | 0.012584495 | 0.68 | 0.602 | 0.077526186 | 3 | 1.129568 |
| Myc | 7.97E-06 | 0.012849284 | 0.292 | 0.235 | 0.079182858 | 3 | 1.242553 |
| Asxl2 | 8.09E-06 | 0.010682622 | 0.3 | 0.25 | 0.080394553 | 3 | 1.2 |
| Pcnp | 8.24E-06 | 0.023528876 | 0.353 | 0.292 | 0.081904425 | 3 | 1.208904 |
| Ssh2 | 8.55E-06 | 0.104837342 | 0.604 | 0.493 | 0.085002737 | 3 | 1.225152 |
| Il21r | 8.64E-06 | 0.006560711 | 0.394 | 0.34 | 0.085877519 | 3 | 1.158824 |
| Dgkd | 8.83E-06 | 0.062134975 | 0.263 | 0.194 | 0.0877613 | 3 | 1.35567 |
| Imp4 | 8.93E-06 | 0.0056639 | 0.31 | 0.264 | 0.088803085 | 3 | 1.174242 |
| Swi5 | 9.18E-06 | 0.029442612 | 0.661 | 0.577 | 0.091275596 | 3 | 1.145581 |
| Tcf12 | 9.38E-06 | 0.108103116 | 0.3 | 0.209 | 0.093189012 | 3 | 1.435407 |
| Idh3b | 9.39E-06 | 0.030604156 | 0.402 | 0.333 | 0.093296984 | 3 | 1.207207 |
| Chchd3 | 9.48E-06 | 0.017974211 | 0.413 | 0.352 | 0.09427275 | 3 | 1.173295 |
| Ctcf | 9.62E-06 | 0.005488357 | 0.431 | 0.374 | 0.095596899 | 3 | 1.152406 |
| Ahsa1 | 9.62E-06 | 0.004411921 | 0.481 | 0.425 | 0.095627279 | 3 | 1.131765 |
| Gemin7 | 9.68E-06 | 0.126717661 | 0.405 | 0.304 | 0.096255391 | 3 | 1.332237 |
| Pdcd10 | 9.84E-06 | 0.02188539 | 0.643 | 0.564 | 0.09778679 | 3 | 1.140071 |
| Cox8a | 9.85E-06 | 0.093801345 | 0.971 | 0.924 | 0.097887005 | 3 | 1.050866 |
| Rps7 | 9.93E-06 | 0.055974416 | 1 | 1 | 0.098739128 | 3 | 1 |
| Srm | 1.00E-05 | 0.0906945 | 0.29 | 0.205 | 0.099868211 | 3 | 1.414634 |
| Cnot2 | 1.02E-05 | 0.023098007 | 0.279 | 0.228 | 0.101139868 | 3 | 1.223684 |
| Ssbp1 | 1.08E-05 | 0.010675326 | 0.435 | 0.375 | 0.107267339 | 3 | 1.16 |
| Txn1l | 1.09E-05 | 0.002289744 | 0.355 | 0.308 | 0.107991955 | 3 | 1.152597 |
| Rasa3 | 1.13E-05 | 0.010335334 | 0.363 | 0.315 | 0.112571819 | 3 | 1.152381 |
| Ddx6 | 1.16E-05 | 0.072599736 | 0.503 | 0.407 | 0.115676265 | 3 | 1.235872 |
| Rps21 | 1.16E-05 | 0.026430678 | 1 | 1 | 0.115741413 | 3 | 1 |
| Rabgap1l | 1.17E-05 | 0.008379452 | 0.283 | 0.237 | 0.116578342 | 3 | 1.194093 |
| Mlx | 1.19E-05 | 0.048624997 | 0.273 | 0.21 | 0.117870811 | 3 | 1.3 |
| Snrpd1 | 1.19E-05 | 0.029149844 | 0.513 | 0.437 | 0.117956106 | 3 | 1.173913 |
| Snrpa1 | 1.20E-05 | 0.031104958 | 0.398 | 0.33 | 0.119056454 | 3 | 1.206061 |
| Nol12 | 1.21E-05 | 0.031710891 | 0.363 | 0.297 | 0.120163415 | 3 | 1.222222 |
| Rap2b | 1.21E-05 | 0.028454214 | 0.265 | 0.21 | 0.120496904 | 3 | 1.261905 |
| Rps19 | 1.31E-05 | 0.05553569 | 1 | 1 | 0.13054119 | 3 | 1 |
| Rrbp1 | 1.35E-05 | 0.036016928 | 0.314 | 0.251 | 0.134453246 | 3 | 1.250996 |
| Syncrip | 1.35E-05 | 0.031066143 | 0.454 | 0.381 | 0.134678034 | 3 | 1.191601 |
| Rsl24d1 | 1.39E-05 | 0.029567403 | 0.308 | 0.251 | 0.137792931 | 3 | 1.227092 |
| Nme2 | 1.40E-05 | 0.03508005 | 0.31 | 0.247 | 0.139240547 | 3 | 1.255061 |
| Glg1 | 1.52E-05 | 0.036743695 | 0.265 | 0.207 | 0.151162254 | 3 | 1.280193 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Znrd1 | 1.60E-05 | 0.041099909 | 0.388 | 0.317 | 0.158869536 | 3 | 1.223975 |
| Pnkd | 1.64E-05 | 0.00089513 | 0.281 | 0.245 | 0.163061589 | 3 | 1.146939 |
| Pdcd6ip | 1.65E-05 | 0.072108793 | 0.382 | 0.302 | 0.163963897 | 3 | 1.264901 |
| Sec11c | 1.67E-05 | 0.054727388 | 0.581 | 0.489 | 0.16615769 | 3 | 1.188139 |
| Nolc1 | 1.76E-05 | 0.035431771 | 0.38 | 0.31 | 0.175264065 | 3 | 1.225806 |
| Mrpl43 | 1.88E-05 | 0.003907136 | 0.39 | 0.341 | 0.18707946 | 3 | 1.143695 |
| Aprt | 1.93E-05 | 0.004760537 | 0.571 | 0.506 | 0.19229455 | 3 | 1.128458 |
| Wipf1 | 1.97E-05 | 0.091090103 | 0.353 | 0.262 | 0.1958508 | 3 | 1.347328 |
| Smim14 | 2.02E-05 | 0.038913494 | 0.575 | 0.492 | 0.200357291 | 3 | 1.168699 |
| Eef1g | 2.02E-05 | 0.091224363 | 0.992 | 0.99 | 0.201012997 | 3 | 1.00202 |
| Bud31 | 2.04E-05 | 0.003893106 | 0.476 | 0.419 | 0.202890153 | 3 | 1.136038 |
| Atp6v1e1 | 2.05E-05 | 0.004267886 | 0.363 | 0.314 | 0.203684135 | 3 | 1.156051 |
| Cox5a | 2.08E-05 | 0.030359261 | 0.815 | 0.738 | 0.206469335 | 3 | 1.104336 |
| Higd2a | 2.11E-05 | 0.024540949 | 0.563 | 0.487 | 0.209353792 | 3 | 1.156057 |
| Prkch | 2.14E-05 | 0.03840974 | 0.345 | 0.28 | 0.212858417 | 3 | 1.232143 |
| Mapkap1 | 2.20E-05 | 0.069345951 | 0.275 | 0.202 | 0.218258849 | 3 | 1.361386 |
| Wdr89 | 2.33E-05 | 0.075148615 | 0.986 | 0.986 | 0.231716119 | 3 | 1 |
| Lamtor4 | 2.35E-05 | 0.079865913 | 0.415 | 0.328 | 0.233271515 | 3 | 1.265244 |
| Mrpl36 | 2.37E-05 | 0.018494358 | 0.417 | 0.357 | 0.235488185 | 3 | 1.168067 |
| Cdc37 | 2.38E-05 | 0.00668371 | 0.688 | 0.616 | 0.236985618 | 3 | 1.116883 |
| 1500011B03Rik | 2.39E-05 | 0.025409725 | 0.339 | 0.28 | 0.237266514 | 3 | 1.210714 |
| Nucks1 | 2.41E-05 | 0.01142116 | 0.46 | 0.398 | 0.239643314 | 3 | 1.155779 |
| Ptk2b | 2.43E-05 | 0.100729356 | 0.318 | 0.232 | 0.241720648 | 3 | 1.37069 |
| Jmjd1c | 2.45E-05 | 0.033898578 | 0.3 | 0.24 | 0.243903384 | 3 | 1.25 |
| Fam53a | 2.49E-05 | 0.034867294 | 0.277 | 0.22 | 0.24723414 | 3 | 1.259091 |
| Lamtor5 | 2.49E-05 | 0.007021982 | 0.497 | 0.438 | 0.24772031 | 3 | 1.134703 |
| Rnf187 | 2.52E-05 | 0.012415161 | 0.542 | 0.478 | 0.250328327 | 3 | 1.133891 |
| Acyp1 | 2.55E-05 | 0.01798313 | 0.363 | 0.306 | 0.253451752 | 3 | 1.186275 |
| Zfp512 | 2.66E-05 | 0.031905021 | 0.298 | 0.241 | 0.264768185 | 3 | 1.236515 |
| Ric8 | 2.71E-05 | 0.072365692 | 0.279 | 0.204 | 0.269501014 | 3 | 1.367647 |
| Gm10020 | 2.90E-05 | 0.048397249 | 0.511 | 0.427 | 0.287980447 | 3 | 1.196721 |
| Fcf1 | 2.99E-05 | 0.06483137 | 0.37 | 0.291 | 0.296776743 | 3 | 1.271478 |
| Mdh1 | 3.02E-05 | 0.027564474 | 0.77 | 0.687 | 0.300066954 | 3 | 1.120815 |
| Mrps17 | 3.03E-05 | 0.062152672 | 0.468 | 0.382 | 0.300913715 | 3 | 1.225131 |
| mt-Nd5 | 3.04E-05 | 0.061070545 | 0.696 | 0.601 | 0.301784665 | 3 | 1.15807 |
| Sec22b | 3.08E-05 | 0.032833233 | 0.263 | 0.208 | 0.306567259 | 3 | 1.264423 |
| Ddx39b | 3.12E-05 | 0.003363313 | 0.639 | 0.573 | 0.310437636 | 3 | 1.115183 |
| Apex1 | 3.18E-05 | 0.034693519 | 0.322 | 0.259 | 0.316217219 | 3 | 1.243243 |
| Zc3h15 | 3.18E-05 | 0.032580913 | 0.515 | 0.438 | 0.316341502 | 3 | 1.175799 |
| Hmgb2 | 3.20E-05 | 0.043413358 | 0.62 | 0.531 | 0.318292519 | 3 | 1.167608 |
| Kif2a | 3.28E-05 | 0.071067471 | 0.32 | 0.241 | 0.326245182 | 3 | 1.327801 |
| Lpxn | 3.28E-05 | 0.09891292 | 0.275 | 0.19 | 0.326435481 | 3 | 1.447368 |
| Taf10 | 3.34E-05 | 0.092212946 | 0.511 | 0.409 | 0.33167269 | 3 | 1.249389 |
| Mrpl52 | 3.35E-05 | 0.055118043 | 0.758 | 0.665 | 0.332963189 | 3 | 1.13985 |
| Gimap6 | 3.40E-05 | 0.025027118 | 0.877 | 0.801 | 0.337895383 | 3 | 1.094881 |
| mt-Nd1 | 3.44E-05 | 0.020041054 | 1 | 1 | 0.34149507 | 3 | 1 |
| Csnk2a1 | 3.54E-05 | 0.002469659 | 0.497 | 0.438 | 0.351761239 | 3 | 1.134703 |

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|-----------|----------|-------------|-------|-------|-------------|---|----------|
| Rras2 | 3.58E-05 | 0.087369855 | 0.275 | 0.195 | 0.356056341 | 3 | 1.410256 |
| Mtpn | 3.59E-05 | 0.03474852 | 0.312 | 0.252 | 0.356684 | 3 | 1.238095 |
| mt-Cytb | 3.60E-05 | 0.024173226 | 1 | 1 | 0.357503546 | 3 | 1 |
| Gm11808 | 3.60E-05 | 0.051919067 | 0.986 | 0.945 | 0.358323389 | 3 | 1.043386 |
| Ddx17 | 3.66E-05 | 0.01133026 | 0.275 | 0.23 | 0.363419051 | 3 | 1.195652 |
| Lfng | 3.93E-05 | 0.035261412 | 0.637 | 0.552 | 0.390828084 | 3 | 1.153986 |
| Cct3 | 4.12E-05 | 0.01585141 | 0.596 | 0.525 | 0.409719689 | 3 | 1.135238 |
| Neu1 | 4.13E-05 | 0.044359998 | 0.255 | 0.197 | 0.410274231 | 3 | 1.294416 |
| BC005624 | 4.13E-05 | 0.016795348 | 0.376 | 0.321 | 0.410327877 | 3 | 1.17134 |
| Akap13 | 4.21E-05 | 0.023882327 | 0.756 | 0.674 | 0.418232141 | 3 | 1.121662 |
| Smarca2 | 4.27E-05 | 0.035887905 | 0.31 | 0.249 | 0.423991262 | 3 | 1.24498 |
| Farsa | 4.27E-05 | 0.012169163 | 0.304 | 0.26 | 0.424445879 | 3 | 1.169231 |
| Sp100 | 4.59E-05 | 0.098742214 | 0.903 | 0.834 | 0.456359986 | 3 | 1.082734 |
| Vps29 | 4.61E-05 | 0.010216233 | 0.417 | 0.363 | 0.458577672 | 3 | 1.14876 |
| mt-Nd2 | 4.72E-05 | 0.074215945 | 0.973 | 0.957 | 0.468795664 | 3 | 1.016719 |
| Smu1 | 4.72E-05 | 0.039631521 | 0.366 | 0.3 | 0.468850506 | 3 | 1.22 |
| Hprt | 4.76E-05 | 0.042694894 | 0.522 | 0.443 | 0.47270162 | 3 | 1.17833 |
| Grk6 | 4.88E-05 | 0.042818923 | 0.565 | 0.483 | 0.484661579 | 3 | 1.169772 |
| Fdx1l | 5.00E-05 | 0.009714022 | 0.263 | 0.222 | 0.496796486 | 3 | 1.184685 |
| Tapbp1 | 5.03E-05 | 0.064877009 | 0.361 | 0.282 | 0.500007843 | 3 | 1.280142 |
| Ddx39 | 5.30E-05 | 0.016634644 | 0.425 | 0.365 | 0.526517928 | 3 | 1.164384 |
| Hadha | 5.34E-05 | 0.041879295 | 0.363 | 0.294 | 0.530391772 | 3 | 1.234694 |
| Klf3 | 5.53E-05 | 0.1143931 | 0.552 | 0.453 | 0.550096751 | 3 | 1.218543 |
| Dguok | 5.56E-05 | 0.110822895 | 0.452 | 0.351 | 0.553104581 | 3 | 1.287749 |
| Rpl24 | 5.66E-05 | 0.005550231 | 1 | 1 | 0.562967103 | 3 | 1 |
| Pigp | 5.72E-05 | 0.061046227 | 0.378 | 0.302 | 0.568646927 | 3 | 1.251656 |
| Snf8 | 5.73E-05 | 0.02935237 | 0.39 | 0.329 | 0.569550684 | 3 | 1.18541 |
| Clint1 | 5.98E-05 | 0.045544661 | 0.39 | 0.317 | 0.594525328 | 3 | 1.230284 |
| Os9 | 6.05E-05 | 0.033614915 | 0.4 | 0.333 | 0.601655428 | 3 | 1.201201 |
| Med10 | 6.33E-05 | 0.039098721 | 0.394 | 0.326 | 0.629567784 | 3 | 1.208589 |
| Ankrd11 | 6.42E-05 | 0.044684125 | 0.715 | 0.639 | 0.63797745 | 3 | 1.118936 |
| Snrpb2 | 6.44E-05 | 0.023429385 | 0.507 | 0.439 | 0.640331272 | 3 | 1.154897 |
| Xrn1 | 6.53E-05 | 0.055604547 | 0.361 | 0.288 | 0.648976935 | 3 | 1.253472 |
| Rrp15 | 6.65E-05 | 0.053556254 | 0.285 | 0.219 | 0.660551418 | 3 | 1.30137 |
| Trappc4 | 6.70E-05 | 0.06305175 | 0.45 | 0.373 | 0.666265897 | 3 | 1.206434 |
| Rrp7a | 6.80E-05 | 0.053410285 | 0.261 | 0.199 | 0.675908142 | 3 | 1.311558 |
| Cdv3 | 6.96E-05 | 0.044232318 | 0.322 | 0.256 | 0.691515021 | 3 | 1.257813 |
| Rpl13-ps3 | 7.13E-05 | 0.079890957 | 0.548 | 0.451 | 0.708779846 | 3 | 1.215078 |
| Stra13 | 7.17E-05 | 0.018769298 | 0.493 | 0.431 | 0.712572022 | 3 | 1.143852 |
| Maf1 | 7.28E-05 | 0.01635567 | 0.45 | 0.389 | 0.72336691 | 3 | 1.156812 |
| Smim20 | 7.32E-05 | 0.014284786 | 0.306 | 0.259 | 0.727245685 | 3 | 1.181467 |
| Nsa2 | 7.48E-05 | 0.025654803 | 0.715 | 0.635 | 0.74349406 | 3 | 1.125984 |
| Sf3a3 | 7.58E-05 | 0.024459439 | 0.331 | 0.277 | 0.753173478 | 3 | 1.194946 |
| Mybbp1a | 7.92E-05 | 0.063989614 | 0.304 | 0.232 | 0.787439337 | 3 | 1.310345 |
| Gm16286 | 7.99E-05 | 0.093941089 | 0.52 | 0.424 | 0.794022642 | 3 | 1.226415 |
| Naa20 | 8.13E-05 | 0.000286165 | 0.283 | 0.249 | 0.808349173 | 3 | 1.136546 |
| Abhd17a | 8.15E-05 | 0.05378948 | 0.285 | 0.219 | 0.810013905 | 3 | 1.30137 |

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|-----------|-------------|-------------|-------|-------|-------------|---|------------|
| Dkc1 | 8.63E-05 | 0.095250275 | 0.444 | 0.364 | 0.857743874 | 3 | 1.21978 |
| Atf4 | 8.69E-05 | 0.012282169 | 0.271 | 0.227 | 0.863799139 | 3 | 1.193833 |
| Trim28 | 8.79E-05 | 0.031784317 | 0.292 | 0.238 | 0.873867917 | 3 | 1.226891 |
| Cabin1 | 9.17E-05 | 0.030184734 | 0.251 | 0.201 | 0.911686778 | 3 | 1.248756 |
| Rrs1 | 9.20E-05 | 0.002700103 | 0.257 | 0.223 | 0.914102294 | 3 | 1.152466 |
| Strap | 9.90E-05 | 0.035985695 | 0.386 | 0.322 | 0.983613891 | 3 | 1.198758 |
| Nelfb | 0.00010216 | 0.009317346 | 0.287 | 0.245 | | 1 | 3 1.171429 |
| Gabarapl2 | 0.00010383 | 0.013711033 | 0.686 | 0.615 | | 1 | 3 1.115447 |
| Clec2i | 0.00010666 | 0.083600042 | 0.357 | 0.275 | | 1 | 3 1.298182 |
| Eif5b | 0.000107309 | 0.013859975 | 0.6 | 0.531 | | 1 | 3 1.129944 |
| Ppil2 | 0.000108438 | 0.063111846 | 0.366 | 0.294 | | 1 | 3 1.244898 |
| Tomm7 | 0.000110868 | 0.036563763 | 0.865 | 0.789 | | 1 | 3 1.096324 |
| Cope | 0.000114066 | 0.003265004 | 0.552 | 0.494 | | 1 | 3 1.117409 |
| Celf2 | 0.00011601 | 0.091852383 | 0.624 | 0.522 | | 1 | 3 1.195402 |
| Ssrp1 | 0.000116069 | 0.041088958 | 0.513 | 0.436 | | 1 | 3 1.176606 |
| Napa | 0.000124605 | 0.034674429 | 0.374 | 0.312 | | 1 | 3 1.198718 |
| Rps6kb1 | 0.000127232 | 0.051379748 | 0.324 | 0.256 | | 1 | 3 1.265625 |
| Ccar1 | 0.00013009 | 0.020298902 | 0.261 | 0.219 | | 1 | 3 1.191781 |
| Mrpl12 | 0.00013417 | 0.026123889 | 0.48 | 0.415 | | 1 | 3 1.156627 |
| Mak16 | 0.00013584 | 0.023182332 | 0.316 | 0.264 | | 1 | 3 1.19697 |
| Vasp | 0.000137769 | 0.080628 | 0.883 | 0.81 | | 1 | 3 1.090123 |
| Anapc13 | 0.000141645 | 0.019477035 | 0.419 | 0.361 | | 1 | 3 1.160665 |
| Prps1 | 0.000149958 | 0.029383324 | 0.273 | 0.224 | | 1 | 3 1.21875 |
| Erh | 0.00015087 | 0.030987471 | 0.873 | 0.801 | | 1 | 3 1.089888 |
| Cdc26 | 0.000151684 | 0.00453086 | 0.38 | 0.338 | | 1 | 3 1.12426 |
| Mrps12 | 0.000152584 | 0.020815998 | 0.271 | 0.225 | | 1 | 3 1.204444 |
| Ptpn6 | 0.000156286 | 0.082113867 | 0.596 | 0.508 | | 1 | 3 1.173228 |
| Mrpl34 | 0.000157917 | 0.044284103 | 0.392 | 0.323 | | 1 | 3 1.213622 |
| Eif3g | 0.000162463 | 0.024037683 | 0.643 | 0.574 | | 1 | 3 1.120209 |
| Sptssa | 0.000175445 | 0.022877484 | 0.472 | 0.409 | | 1 | 3 1.154034 |
| Dcps | 0.000178085 | 0.021535314 | 0.318 | 0.27 | | 1 | 3 1.177778 |
| Zbtb8os | 0.000178248 | 0.009054608 | 0.31 | 0.266 | | 1 | 3 1.165414 |
| Arhgap30 | 0.000189024 | 0.024638606 | 0.628 | 0.563 | | 1 | 3 1.115453 |
| Ncl | 0.000191874 | 0.00710744 | 0.953 | 0.904 | | 1 | 3 1.054204 |
| Npm1 | 0.000203802 | 0.05782901 | 0.998 | 0.988 | | 1 | 3 1.010121 |
| Mgat2 | 0.000212131 | 0.051805961 | 0.429 | 0.36 | | 1 | 3 1.191667 |
| Capza1 | 0.000213491 | 0.060753229 | 0.478 | 0.399 | | 1 | 3 1.197995 |
| Nt5c | 0.000213505 | 0.007666615 | 0.637 | 0.578 | | 1 | 3 1.102076 |
| Ppp1r35 | 0.000215994 | 0.047104838 | 0.283 | 0.223 | | 1 | 3 1.269058 |
| Map4k4 | 0.000217093 | 0.021072742 | 0.279 | 0.231 | | 1 | 3 1.207792 |
| Lman2 | 0.000220493 | 0.012061684 | 0.485 | 0.431 | | 1 | 3 1.12529 |
| Tmem243 | 0.00022255 | 0.039965066 | 0.302 | 0.243 | | 1 | 3 1.242798 |
| Slc38a1 | 0.000223504 | 0.060297625 | 0.269 | 0.204 | | 1 | 3 1.318627 |
| Phgdh | 0.000232859 | 0.019238432 | 0.386 | 0.328 | | 1 | 3 1.176829 |
| Ogt | 0.00023862 | 0.061855629 | 0.739 | 0.652 | | 1 | 3 1.133436 |
| Smek2 | 0.000244131 | 0.028787464 | 0.478 | 0.411 | | 1 | 3 1.163017 |
| Fam195b | 0.00024654 | 0.048034472 | 0.345 | 0.28 | | 1 | 3 1.232143 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| 2700094K13Rik | 0.000249014 | 0.007260871 | 0.454 | 0.401 | 1 | 3 | 1.13217 |
| Nob1 | 0.000254377 | 0.048884237 | 0.259 | 0.201 | 1 | 3 | 1.288557 |
| Stx4a | 0.000257459 | 0.00474614 | 0.331 | 0.29 | 1 | 3 | 1.141379 |
| Dennd2d | 0.000265411 | 0.053666652 | 0.353 | 0.283 | 1 | 3 | 1.24735 |
| Bola2 | 0.000272175 | 0.083397112 | 0.823 | 0.744 | 1 | 3 | 1.106183 |
| 1110001J03Rik | 0.000286288 | 0.086589984 | 0.361 | 0.285 | 1 | 3 | 1.266667 |
| Ddx52 | 0.000290109 | 0.019409498 | 0.255 | 0.212 | 1 | 3 | 1.20283 |
| Snx6 | 0.000292912 | 0.01975696 | 0.31 | 0.263 | 1 | 3 | 1.178707 |
| Ssr4 | 0.000294992 | 0.046170359 | 0.71 | 0.627 | 1 | 3 | 1.132376 |
| Tmem160 | 0.000295409 | 0.061468072 | 0.618 | 0.532 | 1 | 3 | 1.161654 |
| Prmt3 | 0.000296404 | 0.025288928 | 0.251 | 0.206 | 1 | 3 | 1.218447 |
| Mrpl14 | 0.000300437 | 0.000820833 | 0.365 | 0.324 | 1 | 3 | 1.126543 |
| Tubb5 | 0.000302136 | 0.064367461 | 0.922 | 0.862 | 1 | 3 | 1.069606 |
| Btdb1 | 0.00030649 | 0.069328822 | 0.345 | 0.27 | 1 | 3 | 1.277778 |
| Alkbh1 | 0.000315437 | 0.021984775 | 0.366 | 0.312 | 1 | 3 | 1.173077 |
| Mknk2 | 0.000331718 | 0.023902935 | 0.269 | 0.223 | 1 | 3 | 1.206278 |
| Mrps7 | 0.000333772 | 0.014180626 | 0.257 | 0.217 | 1 | 3 | 1.184332 |
| Knop1 | 0.000334909 | 0.019737402 | 0.281 | 0.234 | 1 | 3 | 1.200855 |
| Atp5g2 | 0.000342675 | 0.074140502 | 0.922 | 0.86 | 1 | 3 | 1.072093 |
| Akirin1 | 0.000347222 | 0.045873797 | 0.359 | 0.295 | 1 | 3 | 1.216949 |
| Fmnl1 | 0.000355408 | 0.056195245 | 0.312 | 0.247 | 1 | 3 | 1.263158 |
| Ankrd10 | 0.000360115 | 0.015447009 | 0.32 | 0.275 | 1 | 3 | 1.163636 |
| Tpi1 | 0.000360224 | 0.054546393 | 0.263 | 0.202 | 1 | 3 | 1.30198 |
| Top2b | 0.000361258 | 0.055299492 | 0.606 | 0.536 | 1 | 3 | 1.130597 |
| Zpr1 | 0.00036235 | 0.039304394 | 0.283 | 0.228 | 1 | 3 | 1.241228 |
| Dnajc1 | 0.000368602 | 0.01621139 | 0.326 | 0.278 | 1 | 3 | 1.172662 |
| Epsti1 | 0.000375012 | 0.05535206 | 0.359 | 0.288 | 1 | 3 | 1.246528 |
| Clec2d | 0.000378213 | 0.073693953 | 0.511 | 0.428 | 1 | 3 | 1.193925 |
| Saysd1 | 0.000381816 | 0.000412246 | 0.255 | 0.225 | 1 | 3 | 1.133333 |
| S100a10 | 0.000384021 | 0.016386281 | 0.879 | 0.81 | 1 | 3 | 1.085185 |
| C1qbp | 0.000384032 | 0.05066442 | 0.575 | 0.498 | 1 | 3 | 1.154618 |
| Dph3 | 0.000395082 | 0.040672713 | 0.314 | 0.261 | 1 | 3 | 1.203065 |
| Supt5 | 0.000402661 | 0.01866096 | 0.288 | 0.243 | 1 | 3 | 1.185185 |
| Mpnd | 0.000416912 | 0.003891409 | 0.269 | 0.234 | 1 | 3 | 1.149573 |
| Cetn2 | 0.000421021 | 0.026216312 | 0.409 | 0.349 | 1 | 3 | 1.17192 |
| Cmas | 0.000421622 | 0.053764655 | 0.32 | 0.254 | 1 | 3 | 1.259843 |
| 2810004N23Rik | 0.000423537 | 0.039505153 | 0.365 | 0.302 | 1 | 3 | 1.208609 |
| Ddx46 | 0.000444911 | 0.015764104 | 0.485 | 0.43 | 1 | 3 | 1.127907 |
| Ctsa | 0.000448533 | 0.021466408 | 0.273 | 0.227 | 1 | 3 | 1.202643 |
| Sfxn1 | 0.000460737 | 0.08242107 | 0.314 | 0.237 | 1 | 3 | 1.324895 |
| Smg1 | 0.000466529 | 0.058937538 | 0.294 | 0.231 | 1 | 3 | 1.272727 |
| Erp44 | 0.00047981 | 0.004017658 | 0.31 | 0.274 | 1 | 3 | 1.131387 |
| Ppie | 0.000506137 | 0.026709543 | 0.318 | 0.267 | 1 | 3 | 1.191011 |
| Rsbnl1 | 0.000523793 | 0.023151851 | 0.46 | 0.4 | 1 | 3 | 1.15 |
| Smap1 | 0.000540006 | 0.053013611 | 0.363 | 0.294 | 1 | 3 | 1.234694 |
| Pld3 | 0.000541035 | 0.017784948 | 0.302 | 0.256 | 1 | 3 | 1.179688 |
| Ngdn | 0.000542523 | 0.029869937 | 0.394 | 0.337 | 1 | 3 | 1.169139 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Eef2 | 0.000543648 | 0.007108516 | 1 | 1 | 1 | 3 | 1 |
| Fam103a1 | 0.000552965 | 0.032146582 | 0.398 | 0.342 | 1 | 3 | 1.163743 |
| Mrpl19 | 0.000564512 | 0.041391175 | 0.306 | 0.248 | 1 | 3 | 1.233871 |
| Bax | 0.000567 | 0.065793386 | 0.595 | 0.529 | 1 | 3 | 1.124764 |
| Sema4d | 0.000586808 | 0.059838541 | 0.251 | 0.19 | 1 | 3 | 1.321053 |
| Ttc3 | 0.000587772 | 0.039657866 | 0.368 | 0.305 | 1 | 3 | 1.206557 |
| Tcp11l2 | 0.000644578 | 0.039574069 | 0.419 | 0.355 | 1 | 3 | 1.180282 |
| Nudc | 0.000654343 | 0.057526467 | 0.552 | 0.474 | 1 | 3 | 1.164557 |
| Prkacb | 0.000657057 | 0.009822067 | 0.355 | 0.312 | 1 | 3 | 1.137821 |
| Eif4g3 | 0.000663353 | 0.085038099 | 0.302 | 0.226 | 1 | 3 | 1.336283 |
| Arl4c | 0.000671778 | 0.058525376 | 0.928 | 0.873 | 1 | 3 | 1.063001 |
| Ubc | 0.000674752 | 0.018437126 | 0.388 | 0.337 | 1 | 3 | 1.151335 |
| Ggnbp2 | 0.000680411 | 0.001804973 | 0.47 | 0.423 | 1 | 3 | 1.111111 |
| Snw1 | 0.000684523 | 0.043827142 | 0.542 | 0.467 | 1 | 3 | 1.1606 |
| Rps13 | 0.000704031 | 0.037095437 | 1 | 1 | 1 | 3 | 1 |
| Gpr18 | 0.000713187 | 0.063394342 | 0.405 | 0.334 | 1 | 3 | 1.212575 |
| Aes | 0.000733969 | 0.022077597 | 0.706 | 0.64 | 1 | 3 | 1.103125 |
| Eif6 | 0.000744396 | 0.032120951 | 0.558 | 0.496 | 1 | 3 | 1.125 |
| Gon4l | 0.00077932 | 0.041848052 | 0.333 | 0.275 | 1 | 3 | 1.210909 |
| Ppp2ca | 0.000802917 | 0.045313189 | 0.351 | 0.297 | 1 | 3 | 1.181818 |
| Ten1 | 0.000868825 | 0.02977718 | 0.329 | 0.282 | 1 | 3 | 1.166667 |
| Csk | 0.000872361 | 0.024868654 | 0.546 | 0.488 | 1 | 3 | 1.118852 |
| 1700097N02Rik | 0.000873904 | 0.071882878 | 0.288 | 0.22 | 1 | 3 | 1.309091 |
| Capzb | 0.000876753 | 0.052904081 | 0.799 | 0.724 | 1 | 3 | 1.103591 |
| Rpl7a | 0.000898561 | 0.060891869 | 0.998 | 0.996 | 1 | 3 | 1.002008 |
| Romo1 | 0.000905575 | 0.025496816 | 0.585 | 0.52 | 1 | 3 | 1.125 |
| Cbl | 0.000936941 | 0.088789044 | 0.308 | 0.232 | 1 | 3 | 1.327586 |
| Capns1 | 0.000974014 | 0.063201289 | 0.546 | 0.467 | 1 | 3 | 1.169165 |
| Smap2 | 0.000975815 | 0.051700404 | 0.427 | 0.362 | 1 | 3 | 1.179558 |
| Hnrnpul2 | 0.000989208 | 0.000649088 | 0.376 | 0.335 | 1 | 3 | 1.122388 |
| Adgre5 | 0.000998365 | 0.079577749 | 0.402 | 0.321 | 1 | 3 | 1.252336 |
| Ndufaf4 | 0.001019748 | 0.038015059 | 0.331 | 0.278 | 1 | 3 | 1.190647 |
| Mrpl18 | 0.00102008 | 0.028928108 | 0.585 | 0.524 | 1 | 3 | 1.116412 |
| 2410015M20Rik | 0.001031295 | 0.025268502 | 0.789 | 0.721 | 1 | 3 | 1.094313 |
| Klhdc1 | 0.001069702 | 0.019621899 | 0.285 | 0.244 | 1 | 3 | 1.168033 |
| Rtn3 | 0.001076785 | 0.056030071 | 0.329 | 0.264 | 1 | 3 | 1.246212 |
| Mettl23 | 0.001085811 | 0.004517705 | 0.37 | 0.328 | 1 | 3 | 1.128049 |
| Uqcr11 | 0.001088228 | 0.018069953 | 0.719 | 0.655 | 1 | 3 | 1.09771 |
| Clta | 0.001115714 | 0.043870566 | 0.821 | 0.747 | 1 | 3 | 1.099063 |
| Eif3h | 0.00117784 | 0.043768362 | 0.986 | 0.957 | 1 | 3 | 1.030303 |
| Prdx6 | 0.001187333 | 0.059289997 | 0.745 | 0.671 | 1 | 3 | 1.110283 |
| Tln1 | 0.001197412 | 0.041525134 | 0.745 | 0.679 | 1 | 3 | 1.097202 |
| Rnps1 | 0.00120219 | 0.020365909 | 0.378 | 0.327 | 1 | 3 | 1.155963 |
| Cr1l | 0.001209934 | 0.028358269 | 0.351 | 0.299 | 1 | 3 | 1.173913 |
| Ywhaz | 0.001229772 | 0.009100294 | 0.513 | 0.462 | 1 | 3 | 1.11039 |
| 1700020I14Rik | 0.001241708 | 0.002231703 | 0.271 | 0.238 | 1 | 3 | 1.138655 |
| Tomm5 | 0.001250659 | 0.05591436 | 0.604 | 0.524 | 1 | 3 | 1.152672 |

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|---------|-------------|-------------|-------|-------|---|---|----------|
| Zfp638 | 0.00132752 | 0.004582971 | 0.324 | 0.289 | 1 | 3 | 1.121107 |
| Slbp | 0.001357816 | 0.023852049 | 0.37 | 0.317 | 1 | 3 | 1.167192 |
| Azi2 | 0.001434595 | 0.004249395 | 0.314 | 0.276 | 1 | 3 | 1.137681 |
| Vrk3 | 0.001462993 | 0.018308638 | 0.314 | 0.271 | 1 | 3 | 1.158672 |
| Arid5a | 0.001466995 | 0.069361544 | 0.253 | 0.192 | 1 | 3 | 1.317708 |
| Api5 | 0.001486722 | 0.009978767 | 0.263 | 0.23 | 1 | 3 | 1.143478 |
| Snx4 | 0.00153628 | 0.019564123 | 0.31 | 0.264 | 1 | 3 | 1.174242 |
| Anapc11 | 0.001578726 | 0.035284178 | 0.472 | 0.406 | 1 | 3 | 1.162562 |
| mt-Co3 | 0.001666791 | 0.022199104 | 1 | 1 | 1 | 3 | 1 |
| Fuca1 | 0.001676896 | 0.041454037 | 0.279 | 0.226 | 1 | 3 | 1.234513 |
| Cd3d | 0.001680227 | 0.047370401 | 0.998 | 0.99 | 1 | 3 | 1.008081 |
| Utp11l | 0.001680329 | 0.008725681 | 0.351 | 0.31 | 1 | 3 | 1.132258 |
| H2afy | 0.001730792 | 0.028567378 | 0.626 | 0.569 | 1 | 3 | 1.100176 |
| Atox1 | 0.001747214 | 0.011555507 | 0.635 | 0.583 | 1 | 3 | 1.089194 |
| Cct5 | 0.001766689 | 0.003765787 | 0.747 | 0.689 | 1 | 3 | 1.08418 |
| mt-Co2 | 0.001778209 | 0.014357409 | 1 | 1 | 1 | 3 | 1 |
| Gnb1 | 0.001786208 | 0.002820083 | 0.326 | 0.29 | 1 | 3 | 1.124138 |
| Acbd6 | 0.001796285 | 0.021644728 | 0.353 | 0.304 | 1 | 3 | 1.161184 |
| Rbm22 | 0.001797976 | 0.046009658 | 0.349 | 0.288 | 1 | 3 | 1.211806 |
| Gm10709 | 0.001798246 | 0.055555675 | 1 | 0.998 | 1 | 3 | 1.002004 |
| Rac2 | 0.00180429 | 0.00727941 | 0.998 | 0.992 | 1 | 3 | 1.006048 |
| Adss | 0.001835538 | 0.041334779 | 0.409 | 0.348 | 1 | 3 | 1.175287 |
| Tmem261 | 0.001866774 | 0.013068129 | 0.444 | 0.394 | 1 | 3 | 1.126904 |
| Mrpl48 | 0.001893471 | 0.011817459 | 0.298 | 0.258 | 1 | 3 | 1.155039 |
| Ddx27 | 0.001894539 | 0.009217354 | 0.316 | 0.278 | 1 | 3 | 1.136691 |
| Gimap8 | 0.001896464 | 0.017910645 | 0.314 | 0.269 | 1 | 3 | 1.167286 |
| Zfp800 | 0.001906093 | 0.020594145 | 0.275 | 0.233 | 1 | 3 | 1.180258 |
| Coa6 | 0.001916875 | 0.034056319 | 0.253 | 0.212 | 1 | 3 | 1.193396 |
| Arrb2 | 0.001956263 | 0.015158887 | 0.411 | 0.364 | 1 | 3 | 1.129121 |
| Dnajc19 | 0.001967142 | 0.021881785 | 0.454 | 0.404 | 1 | 3 | 1.123762 |
| Wdr43 | 0.00201177 | 0.023760142 | 0.499 | 0.44 | 1 | 3 | 1.134091 |
| Tm9sf3 | 0.002025785 | 0.010632368 | 0.437 | 0.389 | 1 | 3 | 1.123393 |
| Borcs8 | 0.002043314 | 0.019874364 | 0.392 | 0.341 | 1 | 3 | 1.14956 |
| Eif4a1 | 0.002125124 | 0.050747612 | 0.971 | 0.941 | 1 | 3 | 1.031881 |
| Sec61b | 0.002135749 | 0.070937007 | 0.897 | 0.838 | 1 | 3 | 1.070406 |
| Glud1 | 0.002138873 | 0.017829158 | 0.372 | 0.332 | 1 | 3 | 1.120482 |
| Ak2 | 0.002148966 | 0.009267453 | 0.337 | 0.298 | 1 | 3 | 1.130872 |
| Rpl22 | 0.002152468 | 0.049321389 | 1 | 0.999 | 1 | 3 | 1.001001 |
| Plec | 0.002162098 | 0.000354057 | 0.253 | 0.224 | 1 | 3 | 1.129464 |
| Acsf5 | 0.002181742 | 0.012977562 | 0.294 | 0.256 | 1 | 3 | 1.148438 |
| S100a13 | 0.002229393 | 0.01041384 | 0.546 | 0.492 | 1 | 3 | 1.109756 |
| Fkbp4 | 0.002259733 | 0.018719473 | 0.407 | 0.363 | 1 | 3 | 1.121212 |
| Themis | 0.002362771 | 0.056563415 | 0.329 | 0.265 | 1 | 3 | 1.241509 |
| Mrps18a | 0.002456284 | 0.005966668 | 0.294 | 0.263 | 1 | 3 | 1.117871 |
| Med30 | 0.002492477 | 0.029364177 | 0.32 | 0.273 | 1 | 3 | 1.172161 |
| Abce1 | 0.002516748 | 0.007730976 | 0.263 | 0.228 | 1 | 3 | 1.153509 |
| Cct4 | 0.002596329 | 0.011381183 | 0.727 | 0.67 | 1 | 3 | 1.085075 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Ube2h | 0.00260448 | 0.058969448 | 0.255 | 0.2 | 1 | 3 | 1.275 |
| Tardbp | 0.002696767 | 0.030948435 | 0.415 | 0.363 | 1 | 3 | 1.143251 |
| Lage3 | 0.00274575 | 0.012295709 | 0.343 | 0.303 | 1 | 3 | 1.132013 |
| Dpp4 | 0.002773979 | 0.011726686 | 0.269 | 0.231 | 1 | 3 | 1.164502 |
| Tor1a | 0.00280593 | 0.032147311 | 0.261 | 0.216 | 1 | 3 | 1.208333 |
| Snrpb | 0.002817776 | 0.023661732 | 0.852 | 0.793 | 1 | 3 | 1.074401 |
| Psmc4 | 0.002920106 | 0.042910437 | 0.472 | 0.41 | 1 | 3 | 1.15122 |
| Ubxn6 | 0.002989802 | 0.000375775 | 0.275 | 0.247 | 1 | 3 | 1.11336 |
| Atp6v1f | 0.002999206 | 0.016817098 | 0.823 | 0.765 | 1 | 3 | 1.075817 |
| Fam32a | 0.003042433 | 0.004322062 | 0.478 | 0.433 | 1 | 3 | 1.103926 |
| Anapc5 | 0.00313934 | 0.028284391 | 0.536 | 0.474 | 1 | 3 | 1.130802 |
| Ddx10 | 0.00314458 | 0.042348874 | 0.304 | 0.251 | 1 | 3 | 1.211155 |
| Scand1 | 0.003192034 | 0.043823722 | 0.828 | 0.767 | 1 | 3 | 1.079531 |
| Ywhaq | 0.003194676 | 0.045801616 | 0.739 | 0.674 | 1 | 3 | 1.096439 |
| BC094916 | 0.00326509 | 0.000362487 | 0.335 | 0.294 | 1 | 3 | 1.139456 |
| Luc7l2 | 0.003406099 | 0.034429619 | 0.676 | 0.609 | 1 | 3 | 1.110016 |
| Copb1 | 0.003435695 | 0.010232267 | 0.372 | 0.332 | 1 | 3 | 1.120482 |
| Dars | 0.003515035 | 0.01554222 | 0.347 | 0.303 | 1 | 3 | 1.145215 |
| Eva1b | 0.003573863 | 0.052471771 | 0.281 | 0.224 | 1 | 3 | 1.254464 |
| Rpl29 | 0.0036342 | 0.071873041 | 0.446 | 0.375 | 1 | 3 | 1.189333 |
| Arpc5 | 0.003691523 | 0.055633043 | 0.91 | 0.855 | 1 | 3 | 1.064327 |
| Ddst | 0.003797704 | 0.020863877 | 0.404 | 0.356 | 1 | 3 | 1.134831 |
| Mrpl40 | 0.00380299 | 0.001607338 | 0.285 | 0.256 | 1 | 3 | 1.113281 |
| Ufm1 | 0.003830911 | 0.015734014 | 0.288 | 0.25 | 1 | 3 | 1.152 |
| Ost4 | 0.003840484 | 0.016454193 | 0.733 | 0.68 | 1 | 3 | 1.077941 |
| Yipf3 | 0.004420758 | 0.001930179 | 0.259 | 0.231 | 1 | 3 | 1.121212 |
| Gm2000 | 0.004600593 | 0.037948633 | 0.75 | 0.681 | 1 | 3 | 1.101322 |
| Ran | 0.004618091 | 0.063589385 | 0.862 | 0.8 | 1 | 3 | 1.0775 |
| Pycr2 | 0.004652766 | 0.032882211 | 0.277 | 0.241 | 1 | 3 | 1.149378 |
| Alg5 | 0.004721216 | 0.004694992 | 0.288 | 0.257 | 1 | 3 | 1.120623 |
| Ino80e | 0.004953583 | 0.018848374 | 0.251 | 0.216 | 1 | 3 | 1.162037 |
| Ccndbp1 | 0.005157414 | 0.012122178 | 0.357 | 0.317 | 1 | 3 | 1.126183 |
| Ssca1 | 0.005187039 | 0.023871661 | 0.253 | 0.214 | 1 | 3 | 1.182243 |
| Eif5a | 0.005212874 | 0.054075517 | 0.955 | 0.917 | 1 | 3 | 1.041439 |
| Tcof1 | 0.005247023 | 0.010111701 | 0.384 | 0.343 | 1 | 3 | 1.119534 |
| Atp5d | 0.00546154 | 0.047787323 | 0.83 | 0.765 | 1 | 3 | 1.084967 |
| Btf3l4 | 0.005677029 | 0.001552456 | 0.29 | 0.26 | 1 | 3 | 1.115385 |
| Zcchc9 | 0.005718068 | 0.010483455 | 0.292 | 0.257 | 1 | 3 | 1.136187 |
| Cox5b | 0.005725915 | 0.03533988 | 0.842 | 0.782 | 1 | 3 | 1.076726 |
| Hspa8 | 0.005776389 | 0.044019256 | 0.994 | 0.989 | 1 | 3 | 1.005056 |
| Trip12 | 0.006034136 | 0.018329991 | 0.335 | 0.292 | 1 | 3 | 1.14726 |
| Mplkip | 0.006180778 | 0.064100697 | 0.322 | 0.26 | 1 | 3 | 1.238462 |
| Diaph1 | 0.006184367 | 0.006272371 | 0.433 | 0.39 | 1 | 3 | 1.110256 |
| Eapp | 0.00625005 | 0.005064461 | 0.343 | 0.307 | 1 | 3 | 1.117264 |
| Rps27a | 0.006354767 | 0.036273054 | 1 | 1 | 1 | 3 | 1 |
| Utp14a | 0.006487081 | 0.059884097 | 0.302 | 0.242 | 1 | 3 | 1.247934 |
| Acp1 | 0.006769838 | 0.032538474 | 0.294 | 0.248 | 1 | 3 | 1.185484 |

| | | | | | | | | |
|-----------|-------------|-------------|-------|-------|-----------|---|---|----------|
| Smim15 | 0.006941935 | 0.046825751 | 0.343 | 0.286 | | 1 | 3 | 1.199301 |
| Atic | 0.007155665 | 0.025914655 | 0.341 | 0.296 | | 1 | 3 | 1.152027 |
| Taf1d | 0.007282246 | 0.010624119 | 0.433 | 0.387 | | 1 | 3 | 1.118863 |
| Setd5 | 0.007462736 | 0.039990793 | 0.312 | 0.261 | | 1 | 3 | 1.195402 |
| Nop10 | 0.007716147 | 0.039670806 | 0.904 | 0.852 | | 1 | 3 | 1.061033 |
| mt-Atp6 | 0.007850976 | 0.000188255 | 1 | 1 | | 1 | 3 | 1 |
| Faim | 0.007987722 | 0.013028793 | 0.327 | 0.289 | | 1 | 3 | 1.131488 |
| Mbnl1 | 0.008078821 | 0.003115757 | 0.91 | 0.874 | | 1 | 3 | 1.04119 |
| Cggbp1 | 0.008126783 | 0.056362603 | 0.404 | 0.339 | | 1 | 3 | 1.19174 |
| Rps18-ps3 | 0.00845025 | 0.061068014 | 0.749 | 0.682 | | 1 | 3 | 1.09824 |
| Ube2l3 | 0.008661647 | 0.028574238 | 0.559 | 0.501 | | 1 | 3 | 1.115768 |
| Apopt1 | 0.008754528 | 0.013399059 | 0.259 | 0.226 | | 1 | 3 | 1.146018 |
| Gpatch4 | 0.008877605 | 0.069069149 | 0.331 | 0.268 | | 1 | 3 | 1.235075 |
| Fbl | 0.008903613 | 0.046576779 | 0.741 | 0.674 | | 1 | 3 | 1.099407 |
| Ythdf2 | 0.00896557 | 0.017754482 | 0.259 | 0.223 | | 1 | 3 | 1.161435 |
| Rpl3 | 0.008974873 | 0.036389637 | 1 | 1 | | 1 | 3 | 1 |
| Tcf3 | 0.009516551 | 0.034772531 | 0.275 | 0.229 | | 1 | 3 | 1.200873 |
| Actl6a | 0.009563831 | 0.004115439 | 0.326 | 0.294 | | 1 | 3 | 1.108844 |
| Gpbp1l1 | 0.009600606 | 0.016814823 | 0.283 | 0.25 | | 1 | 3 | 1.132 |
| Kcnq1ot1 | 0.009650106 | 0.030086858 | 0.513 | 0.454 | | 1 | 3 | 1.129956 |
| Copa | 0.009682365 | 0.017270666 | 0.253 | 0.218 | | 1 | 3 | 1.16055 |
| Ubap2l | 0.009830918 | 0.039966938 | 0.468 | 0.416 | | 1 | 3 | 1.125 |
| Ly6a | 5.61E-202 | 1.495730694 | 0.845 | 0.292 | 5.58E-198 | | 4 | 2.893836 |
| Ly6c2 | 2.95E-175 | 1.414505587 | 0.943 | 0.406 | 2.93E-171 | | 4 | 2.32266 |
| Ly6c1 | 1.05E-165 | 1.31028999 | 0.897 | 0.308 | 1.04E-161 | | 4 | 2.912338 |
| Cd8b1 | 2.47E-146 | 0.82359517 | 0.997 | 0.557 | 2.46E-142 | | 4 | 1.789946 |
| Plac8 | 6.02E-117 | 1.032143106 | 0.734 | 0.304 | 5.99E-113 | | 4 | 2.414474 |
| Nkg7 | 2.18E-95 | 0.67266785 | 0.959 | 0.492 | 2.17E-91 | | 4 | 1.949187 |
| Ifit3 | 9.31E-87 | 0.787459573 | 0.444 | 0.086 | 9.25E-83 | | 4 | 5.162791 |
| Cd8a | 5.29E-79 | 0.626374467 | 0.884 | 0.416 | 5.26E-75 | | 4 | 2.125 |
| Rtp4 | 3.69E-78 | 0.714730031 | 0.705 | 0.266 | 3.67E-74 | | 4 | 2.650376 |
| Isg15 | 1.52E-77 | 0.868833811 | 0.605 | 0.238 | 1.51E-73 | | 4 | 2.542017 |
| Bst2 | 9.16E-75 | 0.647971505 | 0.739 | 0.419 | 9.10E-71 | | 4 | 1.763723 |
| Zbp1 | 9.16E-69 | 0.644978349 | 0.724 | 0.356 | 9.11E-65 | | 4 | 2.033708 |
| Stat1 | 5.69E-68 | 0.619005381 | 0.946 | 0.701 | 5.65E-64 | | 4 | 1.349501 |
| Irf7 | 1.68E-61 | 0.640509764 | 0.574 | 0.236 | 1.67E-57 | | 4 | 2.432203 |
| Xaf1 | 1.76E-57 | 0.581104055 | 0.581 | 0.219 | 1.75E-53 | | 4 | 2.652968 |
| Ifit1 | 4.27E-54 | 0.737767485 | 0.444 | 0.133 | 4.24E-50 | | 4 | 3.338346 |
| Gbp4 | 3.10E-53 | 0.575531968 | 0.788 | 0.463 | 3.08E-49 | | 4 | 1.701944 |
| AW112010 | 2.16E-52 | 0.538013052 | 0.959 | 0.824 | 2.15E-48 | | 4 | 1.163835 |
| Mndal | 1.38E-51 | 0.460739638 | 0.979 | 0.915 | 1.37E-47 | | 4 | 1.069945 |
| Gbp2 | 2.80E-48 | 0.598148934 | 0.576 | 0.261 | 2.78E-44 | | 4 | 2.206897 |
| Ifi203 | 1.39E-46 | 0.455495627 | 0.966 | 0.867 | 1.38E-42 | | 4 | 1.114187 |
| Gbp9 | 5.71E-43 | 0.493690428 | 0.563 | 0.257 | 5.68E-39 | | 4 | 2.190661 |
| BC094916 | 2.72E-42 | 0.546462103 | 0.574 | 0.278 | 2.71E-38 | | 4 | 2.064748 |
| Igtp | 3.10E-39 | 0.544594623 | 0.726 | 0.441 | 3.08E-35 | | 4 | 1.646259 |
| Usp18 | 1.06E-37 | 0.504095266 | 0.395 | 0.147 | 1.05E-33 | | 4 | 2.687075 |

| | | | | | | | |
|----------|----------|-------------|-------|-------|----------|---|----------|
| Parp9 | 6.68E-37 | 0.45766476 | 0.452 | 0.188 | 6.64E-33 | 4 | 2.404255 |
| Ms4a4c | 3.82E-36 | 0.500702747 | 0.713 | 0.404 | 3.80E-32 | 4 | 1.764851 |
| Trim30a | 1.45E-35 | 0.459580914 | 0.504 | 0.249 | 1.44E-31 | 4 | 2.024096 |
| Tgtp2 | 1.80E-33 | 0.445653817 | 0.47 | 0.195 | 1.79E-29 | 4 | 2.410256 |
| Ctsw | 1.95E-33 | 0.464662896 | 0.724 | 0.431 | 1.93E-29 | 4 | 1.679814 |
| Ifi47 | 5.47E-33 | 0.430260692 | 0.817 | 0.602 | 5.43E-29 | 4 | 1.357143 |
| Gbp7 | 1.01E-32 | 0.480501285 | 0.615 | 0.347 | 1.01E-28 | 4 | 1.772334 |
| Epsti1 | 1.62E-32 | 0.435748432 | 0.504 | 0.28 | 1.61E-28 | 4 | 1.8 |
| Klrd1 | 2.88E-31 | 0.459495926 | 0.512 | 0.233 | 2.86E-27 | 4 | 2.197425 |
| Samd9l | 1.77E-30 | 0.39714329 | 0.68 | 0.438 | 1.76E-26 | 4 | 1.552511 |
| Pydc3 | 4.29E-30 | 0.425350526 | 0.54 | 0.308 | 4.26E-26 | 4 | 1.753247 |
| B2m | 3.11E-29 | 0.151966112 | 1 | 1 | 3.09E-25 | 4 | 1 |
| Tgtp1 | 3.99E-29 | 0.404036479 | 0.385 | 0.162 | 3.96E-25 | 4 | 2.376543 |
| Irgm1 | 8.90E-29 | 0.406852814 | 0.532 | 0.253 | 8.85E-25 | 4 | 2.102767 |
| Ms4a4b | 3.50E-28 | 0.214949789 | 1 | 0.994 | 3.48E-24 | 4 | 1.006036 |
| Gm4955 | 2.89E-27 | 0.351473412 | 0.266 | 0.074 | 2.87E-23 | 4 | 3.594595 |
| Ddx60 | 1.04E-26 | 0.417321128 | 0.372 | 0.149 | 1.04E-22 | 4 | 2.496644 |
| Gbp2b | 1.83E-26 | 0.434969557 | 0.398 | 0.167 | 1.82E-22 | 4 | 2.383234 |
| Rps18 | 7.37E-25 | 0.094104039 | 1 | 1 | 7.33E-21 | 4 | 1 |
| Pyhin1 | 2.20E-24 | 0.396531096 | 0.519 | 0.286 | 2.19E-20 | 4 | 1.814685 |
| Dtx3l | 1.22E-22 | 0.353500892 | 0.388 | 0.185 | 1.21E-18 | 4 | 2.097297 |
| Phf11b | 2.67E-22 | 0.346495904 | 0.406 | 0.235 | 2.65E-18 | 4 | 1.72766 |
| Rpl13 | 5.03E-22 | 0.105591181 | 1 | 1 | 5.00E-18 | 4 | 1 |
| Tapbp | 1.81E-21 | 0.321603948 | 0.775 | 0.621 | 1.80E-17 | 4 | 1.247987 |
| Daxx | 4.89E-21 | 0.329944475 | 0.465 | 0.286 | 4.86E-17 | 4 | 1.625874 |
| Iigp1 | 9.58E-21 | 0.423324677 | 0.359 | 0.153 | 9.52E-17 | 4 | 2.346405 |
| Runx3 | 1.24E-19 | 0.339623452 | 0.517 | 0.321 | 1.23E-15 | 4 | 1.610592 |
| Sp100 | 3.77E-18 | 0.279271674 | 0.925 | 0.834 | 3.74E-14 | 4 | 1.109113 |
| Herc6 | 8.14E-18 | 0.297601811 | 0.297 | 0.138 | 8.09E-14 | 4 | 2.152174 |
| Ifit1bl1 | 9.52E-18 | 0.289558952 | 0.276 | 0.123 | 9.46E-14 | 4 | 2.243902 |
| H2-T23 | 4.08E-17 | 0.271224399 | 0.902 | 0.78 | 4.05E-13 | 4 | 1.15641 |
| Rpl32 | 6.75E-17 | 0.075220778 | 1 | 1 | 6.71E-13 | 4 | 1 |
| Rpl23a | 1.60E-16 | 0.088640084 | 1 | 1 | 1.59E-12 | 4 | 1 |
| Ifi35 | 1.00E-15 | 0.288437029 | 0.563 | 0.388 | 9.97E-12 | 4 | 1.451031 |
| Gm10260 | 1.05E-15 | 0.119795515 | 1 | 1 | 1.04E-11 | 4 | 1 |
| Phf11c | 1.14E-15 | 0.288327529 | 0.31 | 0.153 | 1.14E-11 | 4 | 2.026144 |
| Rpl37 | 5.80E-15 | 0.090457636 | 1 | 1 | 5.77E-11 | 4 | 1 |
| Sfn1 | 7.66E-15 | 0.279864988 | 0.711 | 0.505 | 7.62E-11 | 4 | 1.407921 |
| Psmb10 | 2.23E-14 | 0.262769931 | 0.783 | 0.625 | 2.21E-10 | 4 | 1.2528 |
| Sfn8 | 8.45E-14 | 0.269524393 | 0.421 | 0.236 | 8.40E-10 | 4 | 1.783898 |
| Ifi27l2a | 1.08E-13 | 0.27724857 | 0.93 | 0.879 | 1.07E-09 | 4 | 1.05802 |
| Rpl10a | 1.30E-13 | 0.076768277 | 1 | 1 | 1.29E-09 | 4 | 1 |
| Trim12c | 1.87E-13 | 0.285746759 | 0.439 | 0.265 | 1.86E-09 | 4 | 1.656604 |
| Rps5 | 4.85E-13 | 0.077857434 | 1 | 1 | 4.82E-09 | 4 | 1 |
| Lgals3bp | 5.47E-13 | 0.251281034 | 0.289 | 0.136 | 5.43E-09 | 4 | 2.125 |
| Mitd1 | 8.98E-13 | 0.270927189 | 0.576 | 0.389 | 8.92E-09 | 4 | 1.48072 |
| Psmb8 | 1.35E-12 | 0.165455153 | 0.997 | 0.968 | 1.34E-08 | 4 | 1.029959 |

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|---------|----------|-------------|-------|-------|-------------|---|----------|
| Ddx58 | 1.25E-11 | 0.255655923 | 0.333 | 0.19 | 1.24E-07 | 4 | 1.752632 |
| Parp14 | 1.33E-11 | 0.248600121 | 0.351 | 0.193 | 1.32E-07 | 4 | 1.818653 |
| Rpl37a | 3.46E-11 | 0.087273678 | 1 | 1 | 3.44E-07 | 4 | 1 |
| Rpl17 | 4.40E-11 | 0.050346971 | 1 | 1 | 4.37E-07 | 4 | 1 |
| Rpl3 | 6.43E-11 | 0.068769414 | 1 | 1 | 6.39E-07 | 4 | 1 |
| Rps7 | 7.37E-11 | 0.071060149 | 1 | 1 | 7.33E-07 | 4 | 1 |
| Dpp4 | 1.11E-10 | 0.245569708 | 0.349 | 0.226 | 1.10E-06 | 4 | 1.544248 |
| Klk8 | 1.75E-10 | 0.235436337 | 0.747 | 0.598 | 1.74E-06 | 4 | 1.249164 |
| Amica1 | 1.94E-10 | 0.239714524 | 0.256 | 0.137 | 1.93E-06 | 4 | 1.868613 |
| Rps28 | 2.51E-10 | 0.06014479 | 1 | 1 | 2.50E-06 | 4 | 1 |
| Psme1 | 3.77E-10 | 0.194890073 | 0.941 | 0.882 | 3.75E-06 | 4 | 1.066893 |
| Psme2 | 6.48E-10 | 0.192016319 | 0.948 | 0.878 | 6.45E-06 | 4 | 1.079727 |
| Rplp0 | 7.14E-10 | 0.055964228 | 1 | 1 | 7.10E-06 | 4 | 1 |
| Samhd1 | 7.82E-10 | 0.215649786 | 0.721 | 0.553 | 7.77E-06 | 4 | 1.303797 |
| Rpl18a | 8.07E-10 | 0.058355874 | 1 | 1 | 8.02E-06 | 4 | 1 |
| Zcchc11 | 1.91E-09 | 0.227510528 | 0.486 | 0.321 | 1.90E-05 | 4 | 1.514019 |
| Tm6sf1 | 2.06E-09 | 0.20801828 | 0.251 | 0.127 | 2.05E-05 | 4 | 1.976378 |
| Rpl9 | 2.13E-09 | 0.056278324 | 1 | 1 | 2.11E-05 | 4 | 1 |
| Tpst2 | 2.39E-09 | 0.202226574 | 0.543 | 0.374 | 2.37E-05 | 4 | 1.451872 |
| Rpsa | 2.74E-09 | 0.049155213 | 1 | 1 | 2.72E-05 | 4 | 1 |
| Rps24 | 2.84E-09 | 0.046944231 | 1 | 1 | 2.82E-05 | 4 | 1 |
| Rps4x | 3.51E-09 | 0.048564309 | 1 | 1 | 3.49E-05 | 4 | 1 |
| Rpl4 | 3.97E-09 | 0.057771028 | 1 | 1 | 3.95E-05 | 4 | 1 |
| Ms4a6b | 5.60E-09 | 0.153896782 | 0.99 | 0.965 | 5.57E-05 | 4 | 1.025907 |
| Rplp2 | 6.73E-09 | 0.047099323 | 1 | 1 | 6.69E-05 | 4 | 1 |
| Shisa5 | 6.95E-09 | 0.105152092 | 1 | 0.999 | 6.90E-05 | 4 | 1.001001 |
| Ifitm10 | 8.09E-09 | 0.183398665 | 0.258 | 0.14 | 8.04E-05 | 4 | 1.842857 |
| Rpl35 | 9.47E-09 | 0.063538708 | 1 | 1 | 9.41E-05 | 4 | 1 |
| Slco3a1 | 1.04E-08 | 0.214377765 | 0.279 | 0.156 | 0.000103602 | 4 | 1.788462 |
| Xrn2 | 1.15E-08 | 0.200692199 | 0.752 | 0.667 | 0.000114078 | 4 | 1.127436 |
| Rps9 | 1.17E-08 | 0.057821185 | 1 | 1 | 0.000116523 | 4 | 1 |
| Rps15a | 1.87E-08 | 0.056095585 | 1 | 1 | 0.000185942 | 4 | 1 |
| Rps6 | 2.02E-08 | 0.050464711 | 1 | 1 | 0.000200721 | 4 | 1 |
| Tapbpl | 2.66E-08 | 0.218912138 | 0.426 | 0.279 | 0.000264298 | 4 | 1.526882 |
| Rps27a | 2.91E-08 | 0.022972894 | 1 | 1 | 0.000289606 | 4 | 1 |
| Ly6e | 3.05E-08 | 0.237717961 | 0.473 | 0.358 | 0.000302911 | 4 | 1.321229 |
| Saraf | 3.13E-08 | 0.177370169 | 0.837 | 0.707 | 0.000311548 | 4 | 1.183876 |
| Tmsb10 | 3.54E-08 | 0.061794333 | 1 | 1 | 0.000351538 | 4 | 1 |
| Rpl11 | 3.56E-08 | 0.070548926 | 1 | 1 | 0.000354184 | 4 | 1 |
| Gramd3 | 4.15E-08 | 0.205543053 | 0.646 | 0.492 | 0.00041264 | 4 | 1.313008 |
| Rplp1 | 4.49E-08 | 0.047028471 | 1 | 1 | 0.000446258 | 4 | 1 |
| Smap2 | 4.77E-08 | 0.217260324 | 0.496 | 0.358 | 0.000474093 | 4 | 1.385475 |
| Irf1 | 5.02E-08 | 0.242150092 | 0.512 | 0.394 | 0.000498924 | 4 | 1.299492 |
| Rpl18 | 5.38E-08 | 0.068438677 | 1 | 1 | 0.00053442 | 4 | 1 |
| Rps27 | 5.71E-08 | 0.010752532 | 1 | 1 | 0.000567668 | 4 | 1 |
| Glipr2 | 6.82E-08 | 0.16310938 | 0.486 | 0.346 | 0.000678374 | 4 | 1.404624 |
| Rpl23 | 7.13E-08 | 0.068841949 | 1 | 1 | 0.000708251 | 4 | 1 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| H2-T22 | 8.70E-08 | 0.191866394 | 0.806 | 0.721 | 0.00086508 | 4 | 1.117892 |
| Tap1 | 8.88E-08 | 0.207864465 | 0.625 | 0.484 | 0.000883105 | 4 | 1.291322 |
| Rps15 | 1.50E-07 | 0.04335632 | 1 | 1 | 0.001488508 | 4 | 1 |
| Smchd1 | 1.73E-07 | 0.20465083 | 0.672 | 0.547 | 0.001715567 | 4 | 1.228519 |
| Ostf1 | 1.97E-07 | 0.179740864 | 0.817 | 0.707 | 0.001960605 | 4 | 1.155587 |
| Rps20 | 2.39E-07 | 0.061774193 | 1 | 1 | 0.002371072 | 4 | 1 |
| Neur13 | 2.74E-07 | 0.186627552 | 0.287 | 0.165 | 0.002722865 | 4 | 1.739394 |
| Evl | 2.97E-07 | 0.180149912 | 0.845 | 0.744 | 0.002950407 | 4 | 1.135753 |
| Pim2 | 4.08E-07 | 0.195949172 | 0.295 | 0.173 | 0.004058514 | 4 | 1.705202 |
| Rps3a1 | 4.17E-07 | 0.053663388 | 1 | 1 | 0.004145778 | 4 | 1 |
| S100a11 | 4.27E-07 | 0.085840749 | 0.62 | 0.492 | 0.004245872 | 4 | 1.260163 |
| Sp110 | 5.52E-07 | 0.184342553 | 0.767 | 0.663 | 0.00548856 | 4 | 1.156863 |
| Rpl35a | 5.74E-07 | 0.058918403 | 1 | 1 | 0.005704107 | 4 | 1 |
| Sell | 7.00E-07 | 0.187668215 | 0.819 | 0.72 | 0.006958339 | 4 | 1.1375 |
| Rpl28 | 7.17E-07 | 0.074585506 | 1 | 1 | 0.007131185 | 4 | 1 |
| Eef1a1 | 8.18E-07 | 0.050070176 | 1 | 1 | 0.008127839 | 4 | 1 |
| Irf9 | 9.52E-07 | 0.197455175 | 0.429 | 0.311 | 0.009461591 | 4 | 1.379421 |
| Slc25a4 | 1.35E-06 | 0.147277606 | 0.786 | 0.657 | 0.013460419 | 4 | 1.196347 |
| Rpl36 | 1.56E-06 | 0.058268939 | 1 | 1 | 0.015498082 | 4 | 1 |
| Rpl22l1 | 1.65E-06 | 0.087420726 | 0.995 | 0.996 | 0.016376425 | 4 | 0.998996 |
| Glyr1 | 1.83E-06 | 0.062696777 | 0.266 | 0.203 | 0.018203427 | 4 | 1.310345 |
| Ubald2 | 2.04E-06 | 0.171183757 | 0.589 | 0.461 | 0.020319818 | 4 | 1.277657 |
| Psmb9 | 2.31E-06 | 0.169387643 | 0.853 | 0.794 | 0.022933217 | 4 | 1.074307 |
| Rps16 | 3.34E-06 | 0.024210059 | 1 | 1 | 0.03316466 | 4 | 1 |
| Rpl41 | 3.47E-06 | 0.051482086 | 1 | 1 | 0.034471545 | 4 | 1 |
| Traf1 | 3.71E-06 | 0.108640097 | 0.395 | 0.295 | 0.036874512 | 4 | 1.338983 |
| Gm8730 | 6.38E-06 | 0.054671504 | 1 | 1 | 0.063463055 | 4 | 1 |
| Rpl38 | 6.58E-06 | 0.044259047 | 1 | 1 | 0.065371894 | 4 | 1 |
| Rps23 | 8.79E-06 | 0.040367904 | 1 | 1 | 0.087334509 | 4 | 1 |
| Rpl31 | 9.52E-06 | 0.01650924 | 1 | 1 | 0.094657931 | 4 | 1 |
| Stat4 | 9.58E-06 | 0.170836533 | 0.359 | 0.242 | 0.095194628 | 4 | 1.483471 |
| Gnb2l1 | 9.88E-06 | 0.077705773 | 1 | 0.997 | 0.098194623 | 4 | 1.003009 |
| Hspe1 | 1.04E-05 | 0.112771337 | 0.917 | 0.839 | 0.103214802 | 4 | 1.092968 |
| Rps26 | 1.14E-05 | 0.047008138 | 1 | 1 | 0.113303212 | 4 | 1 |
| Atp8b4 | 1.31E-05 | 0.142567715 | 0.287 | 0.18 | 0.130034189 | 4 | 1.594444 |
| B4galnt1 | 1.38E-05 | 0.127346676 | 0.788 | 0.672 | 0.137539799 | 4 | 1.172619 |
| Taf7 | 1.45E-05 | 0.088188756 | 0.274 | 0.193 | 0.14429297 | 4 | 1.419689 |
| Mif | 1.70E-05 | 0.064097414 | 0.904 | 0.815 | 0.169346692 | 4 | 1.109202 |
| Sp140 | 1.79E-05 | 0.172407988 | 0.313 | 0.207 | 0.178389184 | 4 | 1.512077 |
| Fam189b | 1.95E-05 | 0.157298621 | 0.698 | 0.582 | 0.193422645 | 4 | 1.199313 |
| H2-Q4 | 2.93E-05 | 0.133604267 | 0.899 | 0.822 | 0.291444321 | 4 | 1.093674 |
| Preld2 | 3.02E-05 | 0.14663213 | 0.305 | 0.206 | 0.299742798 | 4 | 1.480583 |
| Cd79b | 3.55E-05 | 0.044516277 | 0.359 | 0.29 | 0.352600579 | 4 | 1.237931 |
| Svbp | 3.58E-05 | 0.057973782 | 0.393 | 0.324 | 0.355554027 | 4 | 1.212963 |
| Rps2 | 3.58E-05 | 0.036707896 | 1 | 1 | 0.355663326 | 4 | 1 |
| Sqstm1 | 4.10E-05 | 0.014661487 | 0.305 | 0.266 | 0.407933846 | 4 | 1.146617 |
| Ptpn22 | 5.71E-05 | 0.110719545 | 0.38 | 0.277 | 0.567489901 | 4 | 1.371841 |

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|---------------|-------------|-------------|-------|-------|-------------|---|----------|
| Dapl1 | 6.05E-05 | 0.183453225 | 0.718 | 0.621 | 0.60157853 | 4 | 1.1562 |
| Rpl6 | 6.18E-05 | 0.046975142 | 1 | 1 | 0.614518493 | 4 | 1 |
| Cst7 | 6.41E-05 | 0.090863152 | 0.261 | 0.181 | 0.636665407 | 4 | 1.441989 |
| Rps17 | 6.73E-05 | 0.068940253 | 1 | 1 | 0.669246787 | 4 | 1 |
| Rps10 | 0.000101872 | 0.052117858 | 1 | 1 | 1 | 4 | 1 |
| Esyt1 | 0.000146104 | 0.021580414 | 0.313 | 0.266 | 1 | 4 | 1.176692 |
| Fam46a | 0.000193548 | 0.146813969 | 0.271 | 0.178 | 1 | 4 | 1.522472 |
| Rps25 | 0.000195618 | 0.041476053 | 1 | 1 | 1 | 4 | 1 |
| Klf2 | 0.000200011 | 0.089526493 | 0.982 | 0.944 | 1 | 4 | 1.040254 |
| Rps8 | 0.000227536 | 0.046786449 | 1 | 1 | 1 | 4 | 1 |
| Usp25 | 0.000237707 | 0.15424071 | 0.344 | 0.245 | 1 | 4 | 1.404082 |
| Fam58b | 0.000243307 | 0.066803036 | 0.32 | 0.246 | 1 | 4 | 1.300813 |
| Rps19 | 0.000244815 | 0.009137337 | 1 | 1 | 1 | 4 | 1 |
| Ppa1 | 0.000258203 | 0.159104696 | 0.354 | 0.254 | 1 | 4 | 1.393701 |
| Ehd3 | 0.000277147 | 0.134635105 | 0.351 | 0.249 | 1 | 4 | 1.409639 |
| Thy1 | 0.000277608 | 0.056698428 | 0.829 | 0.74 | 1 | 4 | 1.12027 |
| Zc3h7a | 0.000286951 | 0.020076536 | 0.318 | 0.272 | 1 | 4 | 1.169118 |
| Chmp4b | 0.000298228 | 0.13236869 | 0.475 | 0.421 | 1 | 4 | 1.128266 |
| Gm2000 | 0.000337766 | 0.02089462 | 0.762 | 0.682 | 1 | 4 | 1.117302 |
| Sidt1 | 0.000341537 | 0.146468114 | 0.336 | 0.236 | 1 | 4 | 1.423729 |
| Ywhaq | 0.000363637 | 0.015174845 | 0.744 | 0.675 | 1 | 4 | 1.102222 |
| Rps3 | 0.000393405 | 0.031223154 | 1 | 1 | 1 | 4 | 1 |
| 0610012G03Rik | 0.000434778 | 0.010691494 | 0.38 | 0.35 | 1 | 4 | 1.085714 |
| Gltscr2 | 0.00044246 | 0.122038175 | 0.935 | 0.914 | 1 | 4 | 1.022976 |
| Rpl14 | 0.000445018 | 0.033691735 | 1 | 1 | 1 | 4 | 1 |
| Vars | 0.000477543 | 0.134969867 | 0.302 | 0.235 | 1 | 4 | 1.285106 |
| Ahnak | 0.000515523 | 0.040798533 | 0.274 | 0.215 | 1 | 4 | 1.274419 |
| AB124611 | 0.00055398 | 0.144511249 | 0.388 | 0.295 | 1 | 4 | 1.315254 |
| Adrbk1 | 0.000621487 | 0.000166041 | 0.341 | 0.301 | 1 | 4 | 1.13289 |
| Ankrd17 | 0.000734252 | 0.142597869 | 0.276 | 0.198 | 1 | 4 | 1.393939 |
| Rnf114 | 0.000758793 | 0.122866111 | 0.413 | 0.312 | 1 | 4 | 1.323718 |
| Fam111a | 0.000799273 | 0.148946814 | 0.336 | 0.245 | 1 | 4 | 1.371429 |
| Mbd3 | 0.000834131 | 0.019918358 | 0.264 | 0.228 | 1 | 4 | 1.157895 |
| Trmt112 | 0.000913578 | 0.100822482 | 0.755 | 0.657 | 1 | 4 | 1.149163 |
| Eef1g | 0.000949461 | 0.070668745 | 0.997 | 0.99 | 1 | 4 | 1.007071 |
| Nmi | 0.001014359 | 0.146196785 | 0.478 | 0.382 | 1 | 4 | 1.251309 |
| Taz | 0.001032671 | 0.013224737 | 0.279 | 0.262 | 1 | 4 | 1.064885 |
| Tcp11l2 | 0.00109984 | 0.046169214 | 0.421 | 0.356 | 1 | 4 | 1.182584 |
| Ctsd | 0.001118312 | 0.125510581 | 0.638 | 0.541 | 1 | 4 | 1.179298 |
| Rpl36a | 0.001119822 | 0.055102238 | 1 | 1 | 1 | 4 | 1 |
| Rpl5 | 0.001147099 | 0.027369285 | 0.997 | 0.998 | 1 | 4 | 0.998998 |
| Rps12 | 0.001186533 | 0.064751563 | 0.997 | 0.999 | 1 | 4 | 0.997998 |
| Sun2 | 0.001232524 | 0.025417551 | 0.271 | 0.225 | 1 | 4 | 1.204444 |
| Rpl34 | 0.00127286 | 0.037816722 | 1 | 1 | 1 | 4 | 1 |
| Rpl23a-ps3 | 0.001297552 | 0.092810414 | 0.977 | 0.946 | 1 | 4 | 1.03277 |
| Naa20 | 0.001354865 | 0.119875765 | 0.328 | 0.246 | 1 | 4 | 1.333333 |
| Etnk1 | 0.001482984 | 0.129772163 | 0.434 | 0.335 | 1 | 4 | 1.295522 |

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|---------|-------------|-------------|-------|-------|---|---|----------|
| Rpl15 | 0.001587325 | 0.056934974 | 1 | 1 | 1 | 4 | 1 |
| Il7r | 0.001924158 | 0.143464009 | 0.698 | 0.614 | 1 | 4 | 1.136808 |
| Acp5 | 0.002032881 | 0.094726478 | 0.618 | 0.52 | 1 | 4 | 1.188462 |
| Fam172a | 0.002132584 | 0.066197733 | 0.276 | 0.221 | 1 | 4 | 1.248869 |
| Api5 | 0.002249903 | 0.031195097 | 0.274 | 0.23 | 1 | 4 | 1.191304 |
| Slu7 | 0.002289376 | 0.003767851 | 0.264 | 0.241 | 1 | 4 | 1.095436 |
| Cmah | 0.002355265 | 0.129249575 | 0.362 | 0.278 | 1 | 4 | 1.302158 |
| Selplg | 0.002444027 | 0.088885051 | 0.904 | 0.844 | 1 | 4 | 1.07109 |
| Rp9 | 0.002504394 | 0.000651739 | 0.535 | 0.487 | 1 | 4 | 1.098563 |
| Gpr18 | 0.002587414 | 0.121296419 | 0.429 | 0.334 | 1 | 4 | 1.284431 |
| Cd164 | 0.002717597 | 0.076857911 | 0.331 | 0.261 | 1 | 4 | 1.268199 |
| Naca | 0.002960165 | 0.042902149 | 0.995 | 0.998 | 1 | 4 | 0.996994 |
| Rps14 | 0.003221074 | 0.038995363 | 1 | 1 | 1 | 4 | 1 |
| H2-DMa | 0.00333512 | 0.049907824 | 0.264 | 0.221 | 1 | 4 | 1.19457 |
| Psm12 | 0.003632865 | 0.031616922 | 0.406 | 0.354 | 1 | 4 | 1.146893 |
| Usp50 | 0.003699345 | 0.023260882 | 0.264 | 0.233 | 1 | 4 | 1.133047 |
| Rpl13a | 0.003924426 | 0.022252902 | 1 | 1 | 1 | 4 | 1 |
| Eif3k | 0.003949631 | 0.029931653 | 0.956 | 0.914 | 1 | 4 | 1.045952 |
| Eif3h | 0.004262321 | 0.077269716 | 0.974 | 0.959 | 1 | 4 | 1.015641 |
| Tubb5 | 0.004274162 | 0.080568743 | 0.92 | 0.864 | 1 | 4 | 1.064815 |
| Zfos1 | 0.00428489 | 0.125458831 | 0.563 | 0.491 | 1 | 4 | 1.14664 |
| Mbnl1 | 0.004471111 | 0.073767333 | 0.93 | 0.874 | 1 | 4 | 1.064073 |
| Hcst | 0.004541501 | 0.095583645 | 0.917 | 0.864 | 1 | 4 | 1.061343 |
| Tuba1b | 0.004605042 | 0.116281399 | 0.832 | 0.781 | 1 | 4 | 1.065301 |
| Eef1b2 | 0.004620072 | 0.069575779 | 0.992 | 0.993 | 1 | 4 | 0.998993 |
| Arl4c | 0.004632769 | 0.101722756 | 0.917 | 0.875 | 1 | 4 | 1.048 |
| Kat6a | 0.004858541 | 0.043883653 | 0.271 | 0.226 | 1 | 4 | 1.199115 |
| Lpxn | 0.004862376 | 0.101167422 | 0.261 | 0.193 | 1 | 4 | 1.352332 |
| Plgrkt | 0.005106383 | 0.094761814 | 0.468 | 0.379 | 1 | 4 | 1.234828 |
| Socs1 | 0.005686659 | 0.125159077 | 0.305 | 0.227 | 1 | 4 | 1.343612 |
| mt-Co3 | 0.005744225 | 0.002278445 | 1 | 1 | 1 | 4 | 1 |
| Pycr2 | 0.005846354 | 0.04197319 | 0.289 | 0.241 | 1 | 4 | 1.19917 |
| Rps21 | 0.005860153 | 0.024219539 | 1 | 1 | 1 | 4 | 1 |
| Selt | 0.005962945 | 0.053590725 | 0.333 | 0.278 | 1 | 4 | 1.197842 |
| Rpl7 | 0.006308442 | 0.023741574 | 1 | 1 | 1 | 4 | 1 |
| Pcmt1 | 0.006373949 | 0.005872349 | 0.31 | 0.283 | 1 | 4 | 1.095406 |
| Sgk1 | 0.006643864 | 0.131553061 | 0.385 | 0.306 | 1 | 4 | 1.25817 |
| Pdcd10 | 0.007783908 | 0.109885171 | 0.628 | 0.567 | 1 | 4 | 1.107584 |
| Gimap4 | 0.008206607 | 0.01581255 | 0.922 | 0.874 | 1 | 4 | 1.05492 |
| Rpl12 | 0.008449808 | 0.019546351 | 1 | 1 | 1 | 4 | 1 |
| Rps13 | 0.008684944 | 0.033825714 | 1 | 1 | 1 | 4 | 1 |
| Txk | 0.008961742 | 0.113129884 | 0.674 | 0.599 | 1 | 4 | 1.125209 |
| Morc3 | 0.009200152 | 0.05135485 | 0.315 | 0.264 | 1 | 4 | 1.193182 |
| Eef2 | 0.009506203 | 0.022446131 | 1 | 1 | 1 | 4 | 1 |
| Brd8 | 0.009513415 | 0.028193513 | 0.269 | 0.24 | 1 | 4 | 1.120833 |
| Tmbim6 | 0.0097382 | 0.089277269 | 0.891 | 0.841 | 1 | 4 | 1.059453 |
| Ptbp1 | 0.009749016 | 0.013546247 | 0.284 | 0.251 | 1 | 4 | 1.131474 |

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|----------|-----------|-------------|-------|-------|-----------|---|----------|
| Cd69 | 2.18E-208 | 1.441467006 | 0.545 | 0.177 | 2.17E-204 | 5 | 3.079096 |
| Dusp2 | 2.16E-174 | 1.083171443 | 0.767 | 0.42 | 2.15E-170 | 5 | 1.82619 |
| Tagap | 7.18E-135 | 1.10609046 | 0.473 | 0.118 | 7.13E-131 | 5 | 4.008475 |
| Nfkbia | 2.50E-123 | 0.991033742 | 0.827 | 0.565 | 2.48E-119 | 5 | 1.463717 |
| Nfkbid | 1.50E-122 | 0.900840497 | 0.412 | 0.087 | 1.49E-118 | 5 | 4.735632 |
| Ier2 | 3.85E-114 | 0.753543768 | 0.697 | 0.494 | 3.83E-110 | 5 | 1.410931 |
| Junb | 4.68E-99 | 0.827996634 | 0.703 | 0.436 | 4.65E-95 | 5 | 1.612385 |
| Ptma | 5.36E-98 | 0.612078572 | 1 | 0.994 | 5.32E-94 | 5 | 1.006036 |
| Ncl | 2.16E-89 | 0.673370469 | 0.951 | 0.905 | 2.15E-85 | 5 | 1.050829 |
| Nab2 | 6.71E-89 | 0.691790772 | 0.452 | 0.1 | 6.67E-85 | 5 | 4.52 |
| Eif5a | 3.24E-88 | 0.647493865 | 0.957 | 0.918 | 3.22E-84 | 5 | 1.042484 |
| Egr1 | 5.51E-88 | 0.889387311 | 0.331 | 0.046 | 5.47E-84 | 5 | 7.195652 |
| Cd82 | 5.24E-83 | 0.678467684 | 0.533 | 0.289 | 5.20E-79 | 5 | 1.844291 |
| Egr2 | 6.41E-82 | 0.721494561 | 0.262 | 0.013 | 6.37E-78 | 5 | 20.15385 |
| Set | 2.03E-74 | 0.569676974 | 0.83 | 0.721 | 2.01E-70 | 5 | 1.151179 |
| Eif4a1 | 1.10E-72 | 0.546058423 | 0.986 | 0.941 | 1.09E-68 | 5 | 1.047821 |
| Srgn | 7.88E-72 | 0.676621512 | 0.816 | 0.681 | 7.83E-68 | 5 | 1.198238 |
| Myc | 5.91E-71 | 0.610673413 | 0.412 | 0.229 | 5.87E-67 | 5 | 1.799127 |
| Rel | 1.68E-69 | 0.630922894 | 0.487 | 0.178 | 1.67E-65 | 5 | 2.735955 |
| Itm2a | 2.92E-69 | 0.654786809 | 0.389 | 0.261 | 2.90E-65 | 5 | 1.490421 |
| Pa2g4 | 2.66E-66 | 0.562393134 | 0.637 | 0.426 | 2.65E-62 | 5 | 1.495305 |
| Hsp90ab1 | 3.05E-64 | 0.563452128 | 0.983 | 0.933 | 3.04E-60 | 5 | 1.053591 |
| Ran | 1.01E-61 | 0.508853645 | 0.896 | 0.799 | 1.01E-57 | 5 | 1.121402 |
| Ier5 | 3.95E-61 | 0.550985355 | 0.723 | 0.508 | 3.93E-57 | 5 | 1.423228 |
| Id3 | 3.93E-59 | 0.814540004 | 0.524 | 0.24 | 3.91E-55 | 5 | 2.183333 |
| Hspa5 | 1.36E-58 | 0.555209226 | 0.865 | 0.659 | 1.35E-54 | 5 | 1.312595 |
| Hspd1 | 1.19E-57 | 0.525210735 | 0.669 | 0.469 | 1.18E-53 | 5 | 1.426439 |
| Grap | 4.34E-55 | 0.483086306 | 0.62 | 0.459 | 4.31E-51 | 5 | 1.350763 |
| Hivep3 | 2.68E-54 | 0.56667301 | 0.251 | 0.034 | 2.66E-50 | 5 | 7.382353 |
| Ranbp1 | 2.02E-53 | 0.498017998 | 0.856 | 0.685 | 2.01E-49 | 5 | 1.249635 |
| Orai1 | 9.72E-52 | 0.519804374 | 0.427 | 0.202 | 9.67E-48 | 5 | 2.113861 |
| Nop58 | 1.16E-49 | 0.525104101 | 0.608 | 0.361 | 1.16E-45 | 5 | 1.684211 |
| Nme1 | 2.45E-46 | 0.450951928 | 0.922 | 0.819 | 2.43E-42 | 5 | 1.125763 |
| Mif | 1.52E-45 | 0.453071108 | 0.862 | 0.819 | 1.51E-41 | 5 | 1.052503 |
| Hsp90aa1 | 1.43E-44 | 0.441423417 | 0.798 | 0.696 | 1.42E-40 | 5 | 1.146552 |
| G3bp1 | 2.38E-44 | 0.447677231 | 0.813 | 0.657 | 2.37E-40 | 5 | 1.237443 |
| Sep-07 | 7.15E-44 | 0.463793367 | 0.879 | 0.708 | 7.11E-40 | 5 | 1.241525 |
| Gnl3 | 1.11E-42 | 0.515634729 | 0.591 | 0.321 | 1.10E-38 | 5 | 1.841121 |
| Tnfrsf9 | 1.59E-42 | 0.630498561 | 0.251 | 0.034 | 1.58E-38 | 5 | 7.382353 |
| Ptpn6 | 2.18E-41 | 0.492622284 | 0.703 | 0.504 | 2.17E-37 | 5 | 1.394841 |
| Bcl2a1b | 3.09E-40 | 0.573649103 | 0.372 | 0.126 | 3.07E-36 | 5 | 2.952381 |
| Npm1 | 1.16E-39 | 0.394975424 | 0.997 | 0.988 | 1.15E-35 | 5 | 1.009109 |
| Nars | 6.01E-39 | 0.441079115 | 0.568 | 0.346 | 5.97E-35 | 5 | 1.641618 |
| Nfkb2 | 6.05E-36 | 0.413221693 | 0.34 | 0.092 | 6.02E-32 | 5 | 3.695652 |
| Phgdh | 6.51E-36 | 0.403422349 | 0.499 | 0.323 | 6.47E-32 | 5 | 1.544892 |
| Nfkb1 | 6.58E-36 | 0.439702712 | 0.452 | 0.228 | 6.54E-32 | 5 | 1.982456 |
| Tmsb10 | 1.89E-35 | 0.0033085 | 1 | 1 | 1.88E-31 | 5 | 1 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Anp32b | 2.41E-35 | 0.387262884 | 0.816 | 0.73 | 2.40E-31 | 5 | 1.117808 |
| Zfp36l1 | 9.27E-35 | 0.435151962 | 0.513 | 0.326 | 9.22E-31 | 5 | 1.57362 |
| Nolc1 | 1.74E-34 | 0.4649135 | 0.568 | 0.301 | 1.73E-30 | 5 | 1.887043 |
| Srsf2 | 5.34E-34 | 0.417903446 | 0.81 | 0.637 | 5.31E-30 | 5 | 1.271586 |
| Ybx1 | 5.42E-34 | 0.355022415 | 0.919 | 0.916 | 5.39E-30 | 5 | 1.003275 |
| Phb2 | 8.15E-34 | 0.384561897 | 0.764 | 0.622 | 8.10E-30 | 5 | 1.228296 |
| Nop56 | 1.24E-33 | 0.434462058 | 0.72 | 0.505 | 1.23E-29 | 5 | 1.425743 |
| Ddx21 | 1.66E-33 | 0.432015193 | 0.68 | 0.481 | 1.65E-29 | 5 | 1.413721 |
| Tuba1b | 2.29E-33 | 0.437390142 | 0.896 | 0.777 | 2.27E-29 | 5 | 1.153153 |
| Shmt2 | 2.34E-33 | 0.38745264 | 0.38 | 0.183 | 2.32E-29 | 5 | 2.076503 |
| Hspa9 | 8.49E-33 | 0.410369509 | 0.622 | 0.432 | 8.44E-29 | 5 | 1.439815 |
| Ppa1 | 1.72E-32 | 0.442290518 | 0.501 | 0.245 | 1.71E-28 | 5 | 2.044898 |
| Relb | 7.93E-32 | 0.427442362 | 0.412 | 0.14 | 7.88E-28 | 5 | 2.942857 |
| Cct3 | 9.00E-32 | 0.392423856 | 0.692 | 0.521 | 8.94E-28 | 5 | 1.328215 |
| Nhp2 | 2.79E-31 | 0.399256241 | 0.648 | 0.476 | 2.77E-27 | 5 | 1.361345 |
| Hspa8 | 1.23E-30 | 0.356078181 | 0.997 | 0.989 | 1.23E-26 | 5 | 1.008089 |
| Kdm6b | 1.48E-30 | 0.423091272 | 0.303 | 0.121 | 1.47E-26 | 5 | 2.504132 |
| Eif2s2 | 1.56E-30 | 0.387920858 | 0.752 | 0.631 | 1.55E-26 | 5 | 1.191759 |
| Mat2a | 8.09E-30 | 0.404042056 | 0.674 | 0.482 | 8.04E-26 | 5 | 1.39834 |
| Slc3a2 | 3.52E-29 | 0.358851326 | 0.501 | 0.303 | 3.50E-25 | 5 | 1.653465 |
| Wdr43 | 3.71E-29 | 0.397169986 | 0.651 | 0.432 | 3.69E-25 | 5 | 1.506944 |
| Phb | 4.22E-29 | 0.370080096 | 0.524 | 0.352 | 4.20E-25 | 5 | 1.488636 |
| Fbl | 6.75E-29 | 0.348879525 | 0.775 | 0.674 | 6.71E-25 | 5 | 1.149852 |
| Slc25a5 | 2.07E-28 | 0.339811607 | 0.98 | 0.948 | 2.06E-24 | 5 | 1.033755 |
| Srm | 2.96E-28 | 0.397341809 | 0.421 | 0.199 | 2.94E-24 | 5 | 2.115578 |
| Apex1 | 1.08E-27 | 0.398307263 | 0.493 | 0.25 | 1.07E-23 | 5 | 1.972 |
| Erh | 2.71E-27 | 0.316635446 | 0.867 | 0.803 | 2.69E-23 | 5 | 1.079701 |
| Batf | 4.80E-27 | 0.304281233 | 0.274 | 0.188 | 4.77E-23 | 5 | 1.457447 |
| Fubp1 | 1.01E-26 | 0.37186533 | 0.81 | 0.656 | 1.01E-22 | 5 | 1.234756 |
| C1qbp | 1.15E-26 | 0.378901118 | 0.695 | 0.493 | 1.14E-22 | 5 | 1.409736 |
| Serbp1 | 1.31E-26 | 0.333273917 | 0.968 | 0.936 | 1.31E-22 | 5 | 1.034188 |
| Rrad | 1.79E-26 | 0.330990591 | 0.251 | 0.107 | 1.78E-22 | 5 | 2.345794 |
| Tgfb1 | 3.18E-26 | 0.380487943 | 0.585 | 0.393 | 3.16E-22 | 5 | 1.48855 |
| Rilpl2 | 3.81E-26 | 0.393676446 | 0.274 | 0.116 | 3.78E-22 | 5 | 2.362069 |
| Il2rg | 4.79E-26 | 0.347467521 | 0.882 | 0.745 | 4.76E-22 | 5 | 1.183893 |
| Nhp2l1 | 6.53E-26 | 0.339399425 | 0.726 | 0.582 | 6.49E-22 | 5 | 1.247423 |
| Srsf7 | 7.48E-26 | 0.362204121 | 0.622 | 0.457 | 7.44E-22 | 5 | 1.36105 |
| Gpr183 | 8.15E-25 | 0.345948619 | 0.329 | 0.248 | 8.10E-21 | 5 | 1.326613 |
| Zfp36 | 8.37E-25 | 0.321030715 | 0.329 | 0.192 | 8.32E-21 | 5 | 1.713542 |
| Eif4e | 9.19E-25 | 0.332591944 | 0.45 | 0.284 | 9.14E-21 | 5 | 1.584507 |
| Cd40lg | 9.63E-25 | 0.355580988 | 0.28 | 0.149 | 9.57E-21 | 5 | 1.879195 |
| Tnfrsf4 | 9.40E-24 | 0.78533141 | 0.274 | 0.11 | 9.34E-20 | 5 | 2.490909 |
| Cacybp | 9.45E-24 | 0.33239718 | 0.683 | 0.525 | 9.39E-20 | 5 | 1.300952 |
| Uqcc2 | 1.20E-23 | 0.325314704 | 0.559 | 0.387 | 1.19E-19 | 5 | 1.444444 |
| Gar1 | 2.90E-23 | 0.347477377 | 0.499 | 0.306 | 2.89E-19 | 5 | 1.630719 |
| Tnfrsf18 | 4.04E-23 | 0.41949912 | 0.516 | 0.38 | 4.02E-19 | 5 | 1.357895 |
| Traf1 | 5.92E-23 | 0.32728152 | 0.438 | 0.293 | 5.89E-19 | 5 | 1.494881 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Ldha | 1.35E-22 | 0.318193352 | 0.945 | 0.896 | 1.34E-18 | 5 | 1.054688 |
| Elp5 | 1.36E-22 | 0.309858923 | 0.303 | 0.12 | 1.35E-18 | 5 | 2.525 |
| Ifrd1 | 1.67E-22 | 0.297832911 | 0.297 | 0.147 | 1.66E-18 | 5 | 2.020408 |
| Nfkbib | 2.16E-22 | 0.320333205 | 0.369 | 0.173 | 2.15E-18 | 5 | 2.132948 |
| St13 | 3.08E-22 | 0.34746314 | 0.579 | 0.413 | 3.06E-18 | 5 | 1.401937 |
| Snrpf | 3.55E-22 | 0.278568311 | 0.798 | 0.757 | 3.53E-18 | 5 | 1.054161 |
| Nsun2 | 3.96E-22 | 0.314636768 | 0.504 | 0.339 | 3.94E-18 | 5 | 1.486726 |
| Fam162a | 5.49E-22 | 0.312142246 | 0.467 | 0.328 | 5.46E-18 | 5 | 1.42378 |
| Nip7 | 1.25E-21 | 0.313180109 | 0.45 | 0.243 | 1.24E-17 | 5 | 1.851852 |
| Btg1 | 2.73E-21 | 0.333673157 | 0.991 | 0.982 | 2.71E-17 | 5 | 1.009165 |
| Eif5b | 5.98E-21 | 0.350286906 | 0.738 | 0.524 | 5.95E-17 | 5 | 1.408397 |
| Prdx1 | 6.05E-21 | 0.294538461 | 0.902 | 0.835 | 6.02E-17 | 5 | 1.08024 |
| Impdh2 | 9.65E-21 | 0.330383048 | 0.602 | 0.452 | 9.59E-17 | 5 | 1.331858 |
| Dkc1 | 1.74E-20 | 0.325278371 | 0.53 | 0.361 | 1.73E-16 | 5 | 1.468144 |
| Psme2 | 2.01E-20 | 0.284383761 | 0.89 | 0.882 | 2.00E-16 | 5 | 1.00907 |
| Gtpbp4 | 2.24E-20 | 0.332867097 | 0.548 | 0.371 | 2.22E-16 | 5 | 1.477089 |
| Syncrip | 2.25E-20 | 0.341793834 | 0.562 | 0.377 | 2.24E-16 | 5 | 1.490716 |
| Uqcrq | 2.79E-20 | 0.28369276 | 0.804 | 0.728 | 2.77E-16 | 5 | 1.104396 |
| Kras | 3.71E-20 | 0.316958345 | 0.651 | 0.444 | 3.69E-16 | 5 | 1.466216 |
| Dnmt3a | 5.10E-20 | 0.313199532 | 0.32 | 0.118 | 5.07E-16 | 5 | 2.711864 |
| Eif3c | 5.23E-20 | 0.301368002 | 0.732 | 0.601 | 5.20E-16 | 5 | 1.21797 |
| Id2 | 9.33E-20 | 0.492374517 | 0.527 | 0.366 | 9.27E-16 | 5 | 1.439891 |
| Ppan | 1.04E-19 | 0.327249031 | 0.421 | 0.227 | 1.03E-15 | 5 | 1.854626 |
| Mrto4 | 1.15E-19 | 0.30287487 | 0.418 | 0.285 | 1.15E-15 | 5 | 1.466667 |
| Cd5 | 1.49E-19 | 0.377898106 | 0.579 | 0.394 | 1.49E-15 | 5 | 1.469543 |
| Rsl1d1 | 1.52E-19 | 0.308531759 | 0.597 | 0.442 | 1.51E-15 | 5 | 1.350679 |
| Hspe1 | 1.71E-19 | 0.310924556 | 0.914 | 0.84 | 1.70E-15 | 5 | 1.088095 |
| Polr2l | 1.77E-19 | 0.282788374 | 0.501 | 0.374 | 1.76E-15 | 5 | 1.339572 |
| Rcl1 | 1.82E-19 | 0.297441954 | 0.34 | 0.169 | 1.81E-15 | 5 | 2.011834 |
| Pcbp1 | 2.63E-19 | 0.294361922 | 0.677 | 0.553 | 2.61E-15 | 5 | 1.224231 |
| Lyar | 3.06E-19 | 0.322372394 | 0.435 | 0.266 | 3.04E-15 | 5 | 1.635338 |
| Eprs | 1.76E-18 | 0.314843309 | 0.55 | 0.384 | 1.75E-14 | 5 | 1.432292 |
| Fabp5 | 2.02E-18 | 0.387754837 | 0.291 | 0.121 | 2.01E-14 | 5 | 2.404959 |
| Psma7 | 2.28E-18 | 0.278765229 | 0.862 | 0.788 | 2.27E-14 | 5 | 1.093909 |
| Cyba | 4.52E-18 | 0.290223225 | 0.893 | 0.862 | 4.50E-14 | 5 | 1.035963 |
| Cd52 | 4.84E-18 | 0.188165828 | 1 | 1 | 4.81E-14 | 5 | 1 |
| Dad1 | 4.88E-18 | 0.281132504 | 0.85 | 0.74 | 4.85E-14 | 5 | 1.148649 |
| Snrpd1 | 6.95E-18 | 0.306529218 | 0.602 | 0.434 | 6.90E-14 | 5 | 1.387097 |
| Etf1 | 1.75E-17 | 0.309377945 | 0.501 | 0.318 | 1.74E-13 | 5 | 1.575472 |
| Atp5g1 | 1.93E-17 | 0.256206222 | 0.844 | 0.775 | 1.92E-13 | 5 | 1.089032 |
| Odc1 | 1.93E-17 | 0.259083432 | 0.256 | 0.109 | 1.92E-13 | 5 | 2.348624 |
| Znhit6 | 4.12E-17 | 0.234032877 | 0.311 | 0.157 | 4.10E-13 | 5 | 1.980892 |
| Ddx39 | 5.20E-17 | 0.304647872 | 0.533 | 0.36 | 5.17E-13 | 5 | 1.480556 |
| Sh2d2a | 5.33E-17 | 0.260023952 | 0.366 | 0.252 | 5.30E-13 | 5 | 1.452381 |
| Rgcc | 7.53E-17 | 0.363677882 | 0.432 | 0.254 | 7.49E-13 | 5 | 1.700787 |
| Sms | 1.86E-16 | 0.327508977 | 0.496 | 0.306 | 1.85E-12 | 5 | 1.620915 |
| Ebna1bp2 | 1.87E-16 | 0.261073983 | 0.504 | 0.372 | 1.86E-12 | 5 | 1.354839 |

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|-----------|----------|-------------|-------|-------|----------|---|----------|
| PsmA6 | 2.26E-16 | 0.245784526 | 0.617 | 0.541 | 2.25E-12 | 5 | 1.140481 |
| Mrpl12 | 2.35E-16 | 0.285550751 | 0.568 | 0.411 | 2.34E-12 | 5 | 1.381995 |
| CyCS | 2.63E-16 | 0.273577079 | 0.726 | 0.61 | 2.61E-12 | 5 | 1.190164 |
| Mettl1 | 5.33E-16 | 0.287308974 | 0.415 | 0.24 | 5.29E-12 | 5 | 1.729167 |
| Eef1e1 | 5.83E-16 | 0.258771032 | 0.386 | 0.25 | 5.80E-12 | 5 | 1.544 |
| Npm3 | 6.64E-16 | 0.28278489 | 0.79 | 0.683 | 6.60E-12 | 5 | 1.156662 |
| Rrp15 | 6.87E-16 | 0.276843001 | 0.395 | 0.214 | 6.83E-12 | 5 | 1.845794 |
| Larp7 | 6.99E-16 | 0.313421174 | 0.441 | 0.234 | 6.95E-12 | 5 | 1.884615 |
| Pgam1 | 9.34E-16 | 0.265223131 | 0.536 | 0.424 | 9.28E-12 | 5 | 1.264151 |
| Bzw1 | 1.04E-15 | 0.28359835 | 0.784 | 0.615 | 1.04E-11 | 5 | 1.274797 |
| Anp32e | 1.25E-15 | 0.308112753 | 0.562 | 0.391 | 1.24E-11 | 5 | 1.43734 |
| B4galnt1 | 1.26E-15 | 0.284453031 | 0.781 | 0.673 | 1.26E-11 | 5 | 1.160475 |
| Bcl10 | 1.38E-15 | 0.263390028 | 0.493 | 0.317 | 1.37E-11 | 5 | 1.555205 |
| Sfpq | 1.66E-15 | 0.297721779 | 0.671 | 0.51 | 1.65E-11 | 5 | 1.315686 |
| Morf4l2 | 1.73E-15 | 0.263329404 | 0.357 | 0.202 | 1.72E-11 | 5 | 1.767327 |
| Hspa4 | 3.53E-15 | 0.303386113 | 0.55 | 0.349 | 3.51E-11 | 5 | 1.575931 |
| Pfn1 | 4.35E-15 | 0.154362467 | 1 | 1 | 4.33E-11 | 5 | 1 |
| Jarid2 | 4.90E-15 | 0.250430767 | 0.274 | 0.164 | 4.87E-11 | 5 | 1.670732 |
| Snrpb | 8.32E-15 | 0.248956995 | 0.862 | 0.795 | 8.27E-11 | 5 | 1.084277 |
| Nop16 | 1.41E-14 | 0.2275142 | 0.265 | 0.129 | 1.40E-10 | 5 | 2.054264 |
| Hnrnpf | 1.60E-14 | 0.191860571 | 0.994 | 0.971 | 1.59E-10 | 5 | 1.023687 |
| Rab8b | 1.72E-14 | 0.251399422 | 0.277 | 0.142 | 1.71E-10 | 5 | 1.950704 |
| Hnrnpdl | 1.74E-14 | 0.282237029 | 0.674 | 0.54 | 1.73E-10 | 5 | 1.248148 |
| Ccdc86 | 1.78E-14 | 0.266022019 | 0.297 | 0.129 | 1.77E-10 | 5 | 2.302326 |
| Ifrd2 | 1.88E-14 | 0.216160686 | 0.256 | 0.136 | 1.87E-10 | 5 | 1.882353 |
| Tars | 3.91E-14 | 0.238082863 | 0.288 | 0.144 | 3.89E-10 | 5 | 2 |
| Mthfd2 | 3.97E-14 | 0.217567638 | 0.329 | 0.223 | 3.94E-10 | 5 | 1.475336 |
| Ndufaf4 | 4.88E-14 | 0.28079489 | 0.455 | 0.272 | 4.85E-10 | 5 | 1.672794 |
| Zfp593 | 5.02E-14 | 0.216365278 | 0.288 | 0.162 | 4.99E-10 | 5 | 1.777778 |
| Rap1a | 5.60E-14 | 0.265403178 | 0.738 | 0.603 | 5.57E-10 | 5 | 1.223881 |
| Rrs1 | 6.21E-14 | 0.272843434 | 0.386 | 0.216 | 6.17E-10 | 5 | 1.787037 |
| Slc1a5 | 6.56E-14 | 0.209936223 | 0.277 | 0.188 | 6.52E-10 | 5 | 1.473404 |
| Eif1 | 6.94E-14 | 0.176619907 | 0.997 | 0.999 | 6.89E-10 | 5 | 0.997998 |
| Jund | 7.71E-14 | 0.284459711 | 0.712 | 0.572 | 7.67E-10 | 5 | 1.244755 |
| Ltb | 8.09E-14 | 0.237370918 | 0.983 | 0.989 | 8.05E-10 | 5 | 0.993933 |
| Hnrnpa1 | 8.55E-14 | 0.253191452 | 0.769 | 0.689 | 8.50E-10 | 5 | 1.11611 |
| Pdcd11 | 9.52E-14 | 0.272502371 | 0.421 | 0.234 | 9.46E-10 | 5 | 1.799145 |
| Pno1 | 9.65E-14 | 0.262152732 | 0.297 | 0.131 | 9.60E-10 | 5 | 2.267176 |
| Slc29a1 | 1.25E-13 | 0.250676244 | 0.256 | 0.103 | 1.24E-09 | 5 | 2.485437 |
| Pebp1 | 1.38E-13 | 0.233705967 | 0.718 | 0.643 | 1.37E-09 | 5 | 1.116641 |
| Mbd3 | 1.46E-13 | 0.250218357 | 0.378 | 0.221 | 1.45E-09 | 5 | 1.710407 |
| Eif3b | 1.47E-13 | 0.258487981 | 0.464 | 0.313 | 1.46E-09 | 5 | 1.482428 |
| Cct5 | 2.01E-13 | 0.246862153 | 0.772 | 0.689 | 2.00E-09 | 5 | 1.120464 |
| Aars | 2.03E-13 | 0.234812289 | 0.424 | 0.304 | 2.01E-09 | 5 | 1.394737 |
| Hnrnpa2b1 | 3.23E-13 | 0.22997165 | 0.908 | 0.87 | 3.21E-09 | 5 | 1.043678 |
| Eif3g | 3.89E-13 | 0.206572317 | 0.637 | 0.576 | 3.87E-09 | 5 | 1.105903 |
| Hnrnpu | 4.06E-13 | 0.249780734 | 0.663 | 0.567 | 4.04E-09 | 5 | 1.169312 |

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|---------------|----------|-------------|-------|-------|----------|---|----------|
| Atad3a | 4.96E-13 | 0.255671606 | 0.3 | 0.154 | 4.93E-09 | 5 | 1.948052 |
| Prmt1 | 5.35E-13 | 0.228018381 | 0.559 | 0.476 | 5.31E-09 | 5 | 1.17437 |
| Rbbp7 | 6.81E-13 | 0.261271416 | 0.548 | 0.409 | 6.77E-09 | 5 | 1.339853 |
| Galk1 | 6.87E-13 | 0.218011548 | 0.288 | 0.165 | 6.83E-09 | 5 | 1.745455 |
| Atp5g3 | 7.44E-13 | 0.246684234 | 0.821 | 0.723 | 7.39E-09 | 5 | 1.135546 |
| Aimp2 | 7.81E-13 | 0.254365548 | 0.354 | 0.181 | 7.77E-09 | 5 | 1.955801 |
| Cdv3 | 9.43E-13 | 0.264597066 | 0.392 | 0.254 | 9.37E-09 | 5 | 1.543307 |
| Ptprc | 1.04E-12 | 0.224942778 | 0.98 | 0.969 | 1.03E-08 | 5 | 1.011352 |
| Strap | 1.06E-12 | 0.262038217 | 0.481 | 0.318 | 1.05E-08 | 5 | 1.512579 |
| Umps | 1.49E-12 | 0.229520586 | 0.251 | 0.107 | 1.48E-08 | 5 | 2.345794 |
| 9130401M01Rik | 2.54E-12 | 0.207809996 | 0.305 | 0.154 | 2.52E-08 | 5 | 1.980519 |
| Ube2n | 3.06E-12 | 0.25725479 | 0.634 | 0.462 | 3.04E-08 | 5 | 1.372294 |
| Ndfip1 | 3.84E-12 | 0.249920571 | 0.375 | 0.229 | 3.82E-08 | 5 | 1.637555 |
| Alkbh1 | 3.87E-12 | 0.252094527 | 0.476 | 0.307 | 3.84E-08 | 5 | 1.550489 |
| Ftsj3 | 4.26E-12 | 0.234495972 | 0.314 | 0.21 | 4.23E-08 | 5 | 1.495238 |
| Timm10 | 4.71E-12 | 0.239514846 | 0.357 | 0.192 | 4.68E-08 | 5 | 1.859375 |
| Farsa | 4.88E-12 | 0.154300755 | 0.363 | 0.258 | 4.85E-08 | 5 | 1.406977 |
| Nifk | 5.92E-12 | 0.270741302 | 0.427 | 0.258 | 5.88E-08 | 5 | 1.655039 |
| Rheb | 6.72E-12 | 0.216485545 | 0.548 | 0.418 | 6.68E-08 | 5 | 1.311005 |
| Ndufa12 | 7.79E-12 | 0.213256021 | 0.622 | 0.554 | 7.74E-08 | 5 | 1.122744 |
| U2af1 | 9.68E-12 | 0.23806517 | 0.66 | 0.531 | 9.62E-08 | 5 | 1.242938 |
| Timm9 | 9.90E-12 | 0.211386796 | 0.265 | 0.147 | 9.84E-08 | 5 | 1.802721 |
| Rcc2 | 1.87E-11 | 0.22458135 | 0.343 | 0.207 | 1.86E-07 | 5 | 1.657005 |
| Usmg5 | 1.98E-11 | 0.229238492 | 0.772 | 0.665 | 1.96E-07 | 5 | 1.160902 |
| Eif1a | 2.03E-11 | 0.258117598 | 0.372 | 0.226 | 2.02E-07 | 5 | 1.646018 |
| Rps27l | 2.11E-11 | 0.166600405 | 0.677 | 0.676 | 2.10E-07 | 5 | 1.001479 |
| Btg2 | 2.30E-11 | 0.1254749 | 0.651 | 0.68 | 2.29E-07 | 5 | 0.957353 |
| Hnrnpab | 2.31E-11 | 0.249453774 | 0.62 | 0.484 | 2.30E-07 | 5 | 1.280992 |
| Psm4 | 2.50E-11 | 0.215672493 | 0.686 | 0.598 | 2.49E-07 | 5 | 1.147157 |
| Rpf2 | 3.19E-11 | 0.248536587 | 0.375 | 0.23 | 3.18E-07 | 5 | 1.630435 |
| Tsr1 | 3.24E-11 | 0.197005869 | 0.282 | 0.147 | 3.22E-07 | 5 | 1.918367 |
| Polr2h | 3.48E-11 | 0.244948249 | 0.389 | 0.235 | 3.46E-07 | 5 | 1.655319 |
| Psm8 | 4.25E-11 | 0.211416477 | 0.573 | 0.47 | 4.22E-07 | 5 | 1.219149 |
| Tomm40 | 4.62E-11 | 0.198503224 | 0.366 | 0.257 | 4.59E-07 | 5 | 1.424125 |
| Calr | 5.43E-11 | 0.241702791 | 0.778 | 0.701 | 5.40E-07 | 5 | 1.109843 |
| Pcna | 5.51E-11 | 0.237428091 | 0.421 | 0.282 | 5.47E-07 | 5 | 1.492908 |
| Atp5b | 5.81E-11 | 0.210937724 | 0.954 | 0.907 | 5.78E-07 | 5 | 1.051819 |
| Nap1l1 | 6.49E-11 | 0.233759573 | 0.571 | 0.472 | 6.45E-07 | 5 | 1.209746 |
| Fdx1l | 9.24E-11 | 0.215325488 | 0.349 | 0.218 | 9.19E-07 | 5 | 1.600917 |
| Psme3 | 1.01E-10 | 0.236158273 | 0.343 | 0.203 | 9.99E-07 | 5 | 1.689655 |
| Hnrnpc | 1.15E-10 | 0.24995942 | 0.715 | 0.568 | 1.15E-06 | 5 | 1.258803 |
| Tufm | 1.34E-10 | 0.222859347 | 0.256 | 0.129 | 1.33E-06 | 5 | 1.984496 |
| Ppid | 1.35E-10 | 0.227146196 | 0.357 | 0.253 | 1.34E-06 | 5 | 1.411067 |
| Stat6 | 1.45E-10 | 0.227161604 | 0.277 | 0.152 | 1.44E-06 | 5 | 1.822368 |
| Dnaja1 | 1.60E-10 | 0.223612311 | 0.816 | 0.744 | 1.59E-06 | 5 | 1.096774 |
| Dctpp1 | 1.89E-10 | 0.207815898 | 0.308 | 0.183 | 1.87E-06 | 5 | 1.68306 |
| Stx6 | 2.09E-10 | 0.227216678 | 0.337 | 0.193 | 2.08E-06 | 5 | 1.746114 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Lsm2 | 2.13E-10 | 0.215156429 | 0.478 | 0.326 | 2.12E-06 | 5 | 1.466258 |
| Med11 | 2.21E-10 | 0.231901274 | 0.268 | 0.138 | 2.19E-06 | 5 | 1.942029 |
| Hat1 | 2.29E-10 | 0.203146673 | 0.28 | 0.142 | 2.27E-06 | 5 | 1.971831 |
| Cct8 | 2.40E-10 | 0.221634746 | 0.715 | 0.61 | 2.38E-06 | 5 | 1.172131 |
| Twistnb | 2.49E-10 | 0.210825718 | 0.496 | 0.351 | 2.48E-06 | 5 | 1.413105 |
| Smarca5 | 3.43E-10 | 0.249122465 | 0.64 | 0.497 | 3.41E-06 | 5 | 1.287726 |
| Rrp9 | 3.45E-10 | 0.229193789 | 0.346 | 0.205 | 3.43E-06 | 5 | 1.687805 |
| Tomm5 | 3.46E-10 | 0.188812335 | 0.588 | 0.527 | 3.44E-06 | 5 | 1.11575 |
| Tcp1 | 3.55E-10 | 0.241752314 | 0.602 | 0.465 | 3.53E-06 | 5 | 1.294624 |
| Bri3 | 3.62E-10 | 0.209982821 | 0.406 | 0.257 | 3.60E-06 | 5 | 1.579767 |
| Esf1 | 3.62E-10 | 0.229280729 | 0.484 | 0.325 | 3.60E-06 | 5 | 1.489231 |
| Erbp2ip | 3.77E-10 | 0.153926078 | 0.308 | 0.233 | 3.75E-06 | 5 | 1.321888 |
| Psmc5 | 3.98E-10 | 0.225150264 | 0.674 | 0.527 | 3.96E-06 | 5 | 1.278937 |
| Slmo2 | 4.28E-10 | 0.210379527 | 0.288 | 0.146 | 4.25E-06 | 5 | 1.972603 |
| Cct2 | 4.62E-10 | 0.212096677 | 0.622 | 0.543 | 4.59E-06 | 5 | 1.145488 |
| Wdr12 | 4.88E-10 | 0.215849703 | 0.282 | 0.168 | 4.85E-06 | 5 | 1.678571 |
| Atf4 | 5.45E-10 | 0.202475534 | 0.354 | 0.223 | 5.42E-06 | 5 | 1.587444 |
| Utp18 | 5.87E-10 | 0.227775457 | 0.346 | 0.228 | 5.84E-06 | 5 | 1.517544 |
| Cnih4 | 7.07E-10 | 0.203644216 | 0.323 | 0.189 | 7.02E-06 | 5 | 1.708995 |
| Metap2 | 7.71E-10 | 0.220718149 | 0.55 | 0.453 | 7.66E-06 | 5 | 1.214128 |
| Gart | 8.67E-10 | 0.211069295 | 0.418 | 0.272 | 8.62E-06 | 5 | 1.536765 |
| Mea1 | 9.72E-10 | 0.186051338 | 0.357 | 0.225 | 9.66E-06 | 5 | 1.586667 |
| Emc6 | 9.86E-10 | 0.223707096 | 0.573 | 0.445 | 9.80E-06 | 5 | 1.28764 |
| Dcun1d5 | 1.12E-09 | 0.233757591 | 0.53 | 0.382 | 1.11E-05 | 5 | 1.387435 |
| Nop10 | 1.13E-09 | 0.18164574 | 0.865 | 0.856 | 1.12E-05 | 5 | 1.010514 |
| Mrpl20 | 1.35E-09 | 0.204349871 | 0.524 | 0.393 | 1.34E-05 | 5 | 1.333333 |
| Rps2 | 1.92E-09 | 0.11923587 | 1 | 1 | 1.91E-05 | 5 | 1 |
| Srsf3 | 1.95E-09 | 0.222054036 | 0.749 | 0.655 | 1.94E-05 | 5 | 1.143511 |
| Timm13 | 2.06E-09 | 0.191528354 | 0.68 | 0.624 | 2.05E-05 | 5 | 1.089744 |
| Mybbp1a | 2.12E-09 | 0.22310799 | 0.366 | 0.231 | 2.11E-05 | 5 | 1.584416 |
| Ptprcap | 2.21E-09 | 0.18422681 | 0.98 | 0.966 | 2.19E-05 | 5 | 1.014493 |
| Rrp1b | 2.22E-09 | 0.215699745 | 0.277 | 0.152 | 2.21E-05 | 5 | 1.822368 |
| Pou2f2 | 2.26E-09 | 0.267934418 | 0.3 | 0.182 | 2.25E-05 | 5 | 1.648352 |
| Eif2s1 | 2.36E-09 | 0.215793559 | 0.527 | 0.408 | 2.35E-05 | 5 | 1.291667 |
| Sar1a | 2.64E-09 | 0.204232165 | 0.424 | 0.304 | 2.62E-05 | 5 | 1.394737 |
| Gps1 | 2.70E-09 | 0.215655787 | 0.331 | 0.19 | 2.69E-05 | 5 | 1.742105 |
| Hsd17b12 | 2.83E-09 | 0.197901172 | 0.297 | 0.173 | 2.82E-05 | 5 | 1.716763 |
| Hdgf | 2.93E-09 | 0.214146291 | 0.487 | 0.383 | 2.91E-05 | 5 | 1.27154 |
| Hnrnpk | 4.33E-09 | 0.169137183 | 0.931 | 0.892 | 4.30E-05 | 5 | 1.043722 |
| Psmc5 | 6.05E-09 | 0.188583001 | 0.522 | 0.41 | 6.02E-05 | 5 | 1.273171 |
| Psmc6 | 7.63E-09 | 0.199384871 | 0.709 | 0.618 | 7.59E-05 | 5 | 1.147249 |
| Snrpd2 | 8.57E-09 | 0.192354461 | 0.793 | 0.731 | 8.52E-05 | 5 | 1.084815 |
| Zc3h15 | 8.59E-09 | 0.21207771 | 0.565 | 0.437 | 8.54E-05 | 5 | 1.292906 |
| Tuba4a | 8.78E-09 | 0.221840966 | 0.628 | 0.505 | 8.73E-05 | 5 | 1.243564 |
| Stip1 | 9.19E-09 | 0.179604836 | 0.38 | 0.268 | 9.13E-05 | 5 | 1.41791 |
| Cox7c | 9.49E-09 | 0.170399718 | 0.928 | 0.912 | 9.44E-05 | 5 | 1.017544 |
| 2810004N23Rik | 1.02E-08 | 0.196288749 | 0.455 | 0.298 | 0.000101204 | 5 | 1.526846 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Txn14a | 1.05E-08 | 0.222898092 | 0.461 | 0.296 | 0.000104346 | 5 | 1.557432 |
| Chd4 | 1.08E-08 | 0.21253632 | 0.689 | 0.57 | 0.000107767 | 5 | 1.208772 |
| Srsf6 | 1.11E-08 | 0.235449816 | 0.556 | 0.406 | 0.000110724 | 5 | 1.369458 |
| Lars | 1.18E-08 | 0.201006612 | 0.363 | 0.223 | 0.000117462 | 5 | 1.627803 |
| Mrps7 | 1.51E-08 | 0.156314166 | 0.349 | 0.213 | 0.000149688 | 5 | 1.638498 |
| Sdhaf1 | 1.60E-08 | 0.195729263 | 0.297 | 0.197 | 0.000159397 | 5 | 1.507614 |
| Amd1 | 1.71E-08 | 0.184484073 | 0.277 | 0.157 | 0.000170237 | 5 | 1.764331 |
| Cdk4 | 1.93E-08 | 0.137676715 | 0.571 | 0.551 | 0.000192184 | 5 | 1.036298 |
| Rest | 2.10E-08 | 0.205543174 | 0.337 | 0.224 | 0.000208314 | 5 | 1.504464 |
| Gimap5 | 2.25E-08 | 0.233065781 | 0.562 | 0.42 | 0.000224066 | 5 | 1.338095 |
| Ddx27 | 2.33E-08 | 0.216616112 | 0.429 | 0.272 | 0.00023147 | 5 | 1.577206 |
| Gars | 2.94E-08 | 0.133159144 | 0.291 | 0.198 | 0.000292407 | 5 | 1.469697 |
| Ssb | 3.21E-08 | 0.194743769 | 0.758 | 0.685 | 0.000318922 | 5 | 1.106569 |
| Abce1 | 3.66E-08 | 0.208772782 | 0.357 | 0.223 | 0.000364254 | 5 | 1.600897 |
| Eif3d | 3.72E-08 | 0.198237388 | 0.519 | 0.384 | 0.000369321 | 5 | 1.351563 |
| Magoh | 3.83E-08 | 0.192584252 | 0.55 | 0.431 | 0.000380876 | 5 | 1.276102 |
| Rbm8a | 4.08E-08 | 0.188205622 | 0.689 | 0.567 | 0.000405474 | 5 | 1.215168 |
| Snrpa1 | 4.50E-08 | 0.223185027 | 0.461 | 0.328 | 0.000447439 | 5 | 1.405488 |
| Eif6 | 4.83E-08 | 0.191202008 | 0.602 | 0.495 | 0.000480102 | 5 | 1.216162 |
| Zap70 | 5.10E-08 | 0.201192025 | 0.473 | 0.368 | 0.000507218 | 5 | 1.285326 |
| Smarcc1 | 5.12E-08 | 0.17820297 | 0.337 | 0.242 | 0.000508754 | 5 | 1.392562 |
| Nop14 | 5.68E-08 | 0.173503687 | 0.334 | 0.227 | 0.000564384 | 5 | 1.471366 |
| Ak2 | 5.81E-08 | 0.217119502 | 0.438 | 0.292 | 0.000577225 | 5 | 1.5 |
| Sssca1 | 5.93E-08 | 0.175600566 | 0.323 | 0.21 | 0.000589858 | 5 | 1.538095 |
| Itk | 6.15E-08 | 0.185217341 | 0.608 | 0.504 | 0.000611132 | 5 | 1.206349 |
| Cct7 | 6.16E-08 | 0.187519204 | 0.706 | 0.635 | 0.000612334 | 5 | 1.111811 |
| Ppp1r14b | 6.89E-08 | 0.193200032 | 0.461 | 0.356 | 0.000684963 | 5 | 1.294944 |
| Chd1 | 7.32E-08 | 0.210873084 | 0.548 | 0.398 | 0.000727652 | 5 | 1.376884 |
| Sdad1 | 7.39E-08 | 0.201766535 | 0.326 | 0.189 | 0.000734986 | 5 | 1.724868 |
| Cox5a | 7.50E-08 | 0.184589038 | 0.807 | 0.74 | 0.000745017 | 5 | 1.090541 |
| Snrpa | 7.64E-08 | 0.185970709 | 0.372 | 0.253 | 0.000758968 | 5 | 1.470356 |
| Aprt | 7.83E-08 | 0.201611246 | 0.628 | 0.504 | 0.00077792 | 5 | 1.246032 |
| Polr1c | 8.26E-08 | 0.199457088 | 0.363 | 0.24 | 0.000820928 | 5 | 1.5125 |
| Yrdc | 8.44E-08 | 0.144869321 | 0.291 | 0.214 | 0.000839067 | 5 | 1.359813 |
| Txn11 | 1.02E-07 | 0.206712134 | 0.452 | 0.303 | 0.001009999 | 5 | 1.491749 |
| Wdr18 | 1.11E-07 | 0.176443448 | 0.291 | 0.166 | 0.001102501 | 5 | 1.753012 |
| Rpf1 | 1.11E-07 | 0.185731236 | 0.432 | 0.281 | 0.001104284 | 5 | 1.537367 |
| Cct4 | 1.37E-07 | 0.174792153 | 0.738 | 0.671 | 0.001357815 | 5 | 1.099851 |
| Cd3eap | 1.38E-07 | 0.169794438 | 0.282 | 0.165 | 0.001373039 | 5 | 1.709091 |
| Tm2d3 | 1.40E-07 | 0.174014066 | 0.329 | 0.21 | 0.001394591 | 5 | 1.566667 |
| Dhx15 | 1.76E-07 | 0.175155065 | 0.386 | 0.244 | 0.001754036 | 5 | 1.581967 |
| Mcl1 | 1.80E-07 | 0.175546611 | 0.464 | 0.366 | 0.001785014 | 5 | 1.26776 |
| Rps19bp1 | 1.82E-07 | 0.126975531 | 0.254 | 0.158 | 0.001811315 | 5 | 1.607595 |
| Ppat | 1.90E-07 | 0.173132211 | 0.256 | 0.14 | 0.001892124 | 5 | 1.828571 |
| Polr1d | 2.07E-07 | 0.168216528 | 0.738 | 0.671 | 0.002057826 | 5 | 1.099851 |
| Fkbp4 | 2.11E-07 | 0.152444849 | 0.435 | 0.363 | 0.002099344 | 5 | 1.198347 |
| Snhg6 | 2.14E-07 | 0.13120557 | 0.251 | 0.174 | 0.002128017 | 5 | 1.442529 |

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|-----------|----------|-------------|-------|-------|-------------|---|----------|
| Eif1ax | 2.15E-07 | 0.191691327 | 0.432 | 0.34 | 0.002142058 | 5 | 1.270588 |
| Ccnd2 | 2.28E-07 | 0.185428342 | 0.922 | 0.924 | 0.002265629 | 5 | 0.997835 |
| Rars | 2.30E-07 | 0.198294486 | 0.305 | 0.185 | 0.002289182 | 5 | 1.648649 |
| Psmb5 | 2.34E-07 | 0.183285525 | 0.628 | 0.541 | 0.002328939 | 5 | 1.160813 |
| Mrpl17 | 2.34E-07 | 0.194048143 | 0.392 | 0.275 | 0.00232904 | 5 | 1.425455 |
| Gpatch4 | 2.38E-07 | 0.197874048 | 0.395 | 0.266 | 0.002364541 | 5 | 1.484962 |
| Brix1 | 2.39E-07 | 0.191940062 | 0.395 | 0.276 | 0.002380523 | 5 | 1.431159 |
| Ndufa5 | 2.50E-07 | 0.194912932 | 0.622 | 0.504 | 0.002487191 | 5 | 1.234127 |
| Eftud2 | 2.59E-07 | 0.161264097 | 0.329 | 0.196 | 0.002576182 | 5 | 1.678571 |
| Cfdp1 | 2.68E-07 | 0.179612692 | 0.412 | 0.316 | 0.002666746 | 5 | 1.303797 |
| Kpnb1 | 2.83E-07 | 0.159444802 | 0.34 | 0.23 | 0.002816515 | 5 | 1.478261 |
| Mphosph10 | 2.84E-07 | 0.203270277 | 0.432 | 0.318 | 0.002823802 | 5 | 1.358491 |
| Lcp2 | 2.93E-07 | 0.209628287 | 0.438 | 0.31 | 0.002911309 | 5 | 1.412903 |
| Nrip1 | 2.93E-07 | 0.19619407 | 0.375 | 0.247 | 0.002913563 | 5 | 1.518219 |
| Rwdd1 | 3.13E-07 | 0.202298917 | 0.605 | 0.491 | 0.003111579 | 5 | 1.232179 |
| Pim1 | 3.15E-07 | 0.146408739 | 0.271 | 0.263 | 0.003135169 | 5 | 1.030418 |
| Slc38a1 | 3.26E-07 | 0.178616399 | 0.314 | 0.204 | 0.003239178 | 5 | 1.539216 |
| Shisa5 | 3.36E-07 | 0.046933633 | 1 | 0.999 | 0.003340419 | 5 | 1.001001 |
| Gbp4 | 3.64E-07 | 0.222892276 | 0.582 | 0.478 | 0.003619174 | 5 | 1.217573 |
| Eif3a | 3.92E-07 | 0.203073504 | 0.654 | 0.546 | 0.003897887 | 5 | 1.197802 |
| Tomm70a | 3.98E-07 | 0.18949631 | 0.354 | 0.236 | 0.003960396 | 5 | 1.5 |
| Ube2a | 4.03E-07 | 0.143135485 | 0.418 | 0.292 | 0.004001315 | 5 | 1.431507 |
| Mrpl54 | 4.20E-07 | 0.172162848 | 0.553 | 0.463 | 0.004170495 | 5 | 1.194384 |
| Pes1 | 4.26E-07 | 0.150211233 | 0.291 | 0.182 | 0.00423528 | 5 | 1.598901 |
| Banf1 | 4.84E-07 | 0.182176661 | 0.571 | 0.464 | 0.004814948 | 5 | 1.230603 |
| Eif4g1 | 4.84E-07 | 0.180871897 | 0.487 | 0.369 | 0.004815459 | 5 | 1.319783 |
| Cebpz | 4.85E-07 | 0.201978863 | 0.444 | 0.331 | 0.004821158 | 5 | 1.34139 |
| Txlna | 5.25E-07 | 0.166898821 | 0.311 | 0.22 | 0.005217821 | 5 | 1.413636 |
| Cdc37 | 5.45E-07 | 0.174857821 | 0.68 | 0.619 | 0.005417623 | 5 | 1.098546 |
| Psmd11 | 5.96E-07 | 0.18182075 | 0.565 | 0.456 | 0.005922236 | 5 | 1.239035 |
| Pole4 | 6.20E-07 | 0.184189851 | 0.628 | 0.56 | 0.006163742 | 5 | 1.121429 |
| Top1 | 6.28E-07 | 0.188362147 | 0.582 | 0.435 | 0.00624288 | 5 | 1.337931 |
| Ppp1r11 | 6.58E-07 | 0.185734608 | 0.55 | 0.425 | 0.006544664 | 5 | 1.294118 |
| Usp50 | 6.74E-07 | 0.072997187 | 0.274 | 0.233 | 0.006696525 | 5 | 1.175966 |
| Ltv1 | 6.83E-07 | 0.161836371 | 0.268 | 0.177 | 0.006793032 | 5 | 1.514124 |
| Rpl7l1 | 7.05E-07 | 0.172086641 | 0.427 | 0.318 | 0.007007747 | 5 | 1.342767 |
| Mdn1 | 7.17E-07 | 0.171625576 | 0.268 | 0.156 | 0.007128374 | 5 | 1.717949 |
| Tgoln1 | 7.22E-07 | 0.155437591 | 0.386 | 0.317 | 0.007176223 | 5 | 1.217666 |
| U2af2 | 8.20E-07 | 0.183294436 | 0.461 | 0.324 | 0.00814897 | 5 | 1.42284 |
| Rrp7a | 8.21E-07 | 0.164831063 | 0.303 | 0.198 | 0.008156718 | 5 | 1.530303 |
| Ikake | 8.47E-07 | 0.164499733 | 0.378 | 0.304 | 0.008415306 | 5 | 1.243421 |
| Naa50 | 8.69E-07 | 0.179945028 | 0.297 | 0.191 | 0.00863713 | 5 | 1.554974 |
| Ddx18 | 9.79E-07 | 0.194670808 | 0.594 | 0.491 | 0.009731204 | 5 | 1.209776 |
| Pomp | 1.01E-06 | 0.172604089 | 0.767 | 0.7 | 0.010057182 | 5 | 1.095714 |
| Usp14 | 1.03E-06 | 0.129924882 | 0.274 | 0.181 | 0.010216529 | 5 | 1.513812 |
| Eef1d | 1.11E-06 | 0.156685098 | 0.899 | 0.866 | 0.011026151 | 5 | 1.038106 |
| Hmgn1 | 1.18E-06 | 0.191892084 | 0.718 | 0.617 | 0.011739237 | 5 | 1.163695 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Pkm | 1.24E-06 | 0.174046429 | 0.839 | 0.794 | 0.012340319 | 5 | 1.056675 |
| Trp53 | 1.27E-06 | 0.185765776 | 0.715 | 0.607 | 0.012600018 | 5 | 1.177924 |
| Psmc1 | 1.39E-06 | 0.175445879 | 0.409 | 0.273 | 0.013832096 | 5 | 1.498168 |
| Txn2 | 1.44E-06 | 0.18788927 | 0.605 | 0.497 | 0.014288033 | 5 | 1.217304 |
| Timm44 | 1.46E-06 | 0.127412318 | 0.291 | 0.207 | 0.014561009 | 5 | 1.405797 |
| Mrpl15 | 1.49E-06 | 0.177847662 | 0.418 | 0.315 | 0.014852887 | 5 | 1.326984 |
| Psmb7 | 1.51E-06 | 0.188237237 | 0.55 | 0.407 | 0.015006411 | 5 | 1.351351 |
| Pop7 | 1.60E-06 | 0.137840259 | 0.311 | 0.212 | 0.015863846 | 5 | 1.466981 |
| Sumo2 | 1.74E-06 | 0.143191249 | 0.902 | 0.898 | 0.017247226 | 5 | 1.004454 |
| Psmc1 | 1.84E-06 | 0.167722625 | 0.931 | 0.883 | 0.018320104 | 5 | 1.05436 |
| Mdh2 | 1.93E-06 | 0.16116986 | 0.749 | 0.703 | 0.019223247 | 5 | 1.065434 |
| Prmt7 | 1.97E-06 | 0.127641759 | 0.251 | 0.145 | 0.019603869 | 5 | 1.731034 |
| Glrx3 | 2.04E-06 | 0.180916488 | 0.53 | 0.427 | 0.020250679 | 5 | 1.241218 |
| Pigt | 2.16E-06 | 0.086145332 | 0.251 | 0.198 | 0.021477353 | 5 | 1.267677 |
| Srp54b | 2.16E-06 | 0.180209432 | 0.424 | 0.285 | 0.021516013 | 5 | 1.487719 |
| Api5 | 2.19E-06 | 0.127400475 | 0.297 | 0.228 | 0.021798854 | 5 | 1.302632 |
| Abcf2 | 2.22E-06 | 0.145236694 | 0.28 | 0.187 | 0.022047436 | 5 | 1.497326 |
| Rif1 | 2.26E-06 | 0.168854334 | 0.331 | 0.218 | 0.022465726 | 5 | 1.518349 |
| Gspt1 | 2.26E-06 | 0.177897571 | 0.403 | 0.318 | 0.022496658 | 5 | 1.267296 |
| Pum3 | 2.40E-06 | 0.176294722 | 0.343 | 0.222 | 0.023809563 | 5 | 1.545045 |
| Hnrnp | 2.47E-06 | 0.162813788 | 0.64 | 0.539 | 0.024514408 | 5 | 1.187384 |
| Tmem11 | 2.84E-06 | 0.125952872 | 0.28 | 0.173 | 0.028258634 | 5 | 1.618497 |
| Trnt1 | 3.21E-06 | 0.126997531 | 0.311 | 0.201 | 0.031935533 | 5 | 1.547264 |
| Aamp | 3.24E-06 | 0.163116883 | 0.501 | 0.419 | 0.032243707 | 5 | 1.195704 |
| Prmt3 | 3.26E-06 | 0.14910232 | 0.308 | 0.203 | 0.032414185 | 5 | 1.517241 |
| Ssr2 | 3.27E-06 | 0.152439193 | 0.478 | 0.371 | 0.032531722 | 5 | 1.28841 |
| Ruvbl2 | 3.31E-06 | 0.144282547 | 0.274 | 0.163 | 0.032871732 | 5 | 1.680982 |
| Nudc | 3.47E-06 | 0.157534915 | 0.542 | 0.477 | 0.034514422 | 5 | 1.136268 |
| Ppie | 3.53E-06 | 0.121643157 | 0.38 | 0.264 | 0.035123103 | 5 | 1.439394 |
| Ppp1r2 | 4.04E-06 | 0.13132762 | 0.256 | 0.161 | 0.040178051 | 5 | 1.590062 |
| Sde2 | 4.24E-06 | 0.162168933 | 0.363 | 0.238 | 0.042194692 | 5 | 1.52521 |
| Sub1 | 4.36E-06 | 0.157144183 | 0.934 | 0.893 | 0.043297503 | 5 | 1.045913 |
| Plgrkt | 4.39E-06 | 0.195635937 | 0.496 | 0.378 | 0.043645312 | 5 | 1.312169 |
| Sbno1 | 4.47E-06 | 0.187373161 | 0.573 | 0.44 | 0.04440109 | 5 | 1.302273 |
| Rsl24d1 | 4.61E-06 | 0.173169333 | 0.363 | 0.25 | 0.045802161 | 5 | 1.452 |
| Fyn | 4.62E-06 | 0.169081473 | 0.452 | 0.355 | 0.045910532 | 5 | 1.273239 |
| Elavl1 | 5.14E-06 | 0.174847248 | 0.47 | 0.351 | 0.051096833 | 5 | 1.339031 |
| Bccip | 5.43E-06 | 0.163827743 | 0.452 | 0.375 | 0.054005667 | 5 | 1.205333 |
| Tomm6 | 5.81E-06 | 0.128839916 | 0.28 | 0.185 | 0.057761864 | 5 | 1.513514 |
| Srrm2 | 5.84E-06 | 0.156872915 | 0.957 | 0.933 | 0.058091426 | 5 | 1.025723 |
| Psmc4 | 6.51E-06 | 0.178009475 | 0.524 | 0.409 | 0.064712426 | 5 | 1.281174 |
| Stk17b | 6.81E-06 | 0.113632032 | 0.741 | 0.708 | 0.067716425 | 5 | 1.04661 |
| Arf3 | 6.94E-06 | 0.183725201 | 0.331 | 0.211 | 0.069006685 | 5 | 1.56872 |
| Gpr18 | 7.76E-06 | 0.162741524 | 0.421 | 0.335 | 0.077178183 | 5 | 1.256716 |
| Ivns1abp | 8.37E-06 | 0.116043956 | 0.259 | 0.17 | 0.083169689 | 5 | 1.523529 |
| Chchd10 | 8.50E-06 | 0.178316355 | 0.354 | 0.253 | 0.084521032 | 5 | 1.399209 |
| Chchd1 | 8.91E-06 | 0.169739308 | 0.553 | 0.426 | 0.088595352 | 5 | 1.298122 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Stap1 | 9.31E-06 | 0.167306306 | 0.285 | 0.174 | 0.092553772 | 5 | 1.637931 |
| Tmem147 | 9.36E-06 | 0.13916994 | 0.363 | 0.272 | 0.093086025 | 5 | 1.334559 |
| Irf1 | 9.57E-06 | 0.150312602 | 0.441 | 0.399 | 0.095134778 | 5 | 1.105263 |
| Ube2d3 | 9.74E-06 | 0.1516789 | 0.914 | 0.875 | 0.096801851 | 5 | 1.044571 |
| Cul1 | 9.99E-06 | 0.107326325 | 0.305 | 0.204 | 0.099325918 | 5 | 1.495098 |
| Rangap1 | 1.00E-05 | 0.104306645 | 0.256 | 0.194 | 0.099354689 | 5 | 1.319588 |
| Stoml2 | 1.03E-05 | 0.159815029 | 0.323 | 0.227 | 0.102309912 | 5 | 1.422907 |
| Ctage5 | 1.04E-05 | 0.157927178 | 0.516 | 0.434 | 0.103304026 | 5 | 1.18894 |
| Tubb5 | 1.05E-05 | 0.150855058 | 0.879 | 0.867 | 0.104813529 | 5 | 1.013841 |
| Prpf31 | 1.08E-05 | 0.137661312 | 0.346 | 0.24 | 0.107354972 | 5 | 1.441667 |
| Hnrnpd | 1.10E-05 | 0.16099294 | 0.53 | 0.458 | 0.109786929 | 5 | 1.157205 |
| Wdr83os | 1.11E-05 | 0.175360538 | 0.49 | 0.391 | 0.109952419 | 5 | 1.253197 |
| Nudt5 | 1.18E-05 | 0.108028702 | 0.282 | 0.196 | 0.117213748 | 5 | 1.438776 |
| Snrpe | 1.44E-05 | 0.150314672 | 0.865 | 0.824 | 0.142826948 | 5 | 1.049757 |
| Prpf38a | 1.47E-05 | 0.095503228 | 0.274 | 0.195 | 0.145744698 | 5 | 1.405128 |
| Ccnh | 1.47E-05 | 0.062962783 | 0.254 | 0.211 | 0.145908026 | 5 | 1.203791 |
| Llph | 1.51E-05 | 0.169986503 | 0.66 | 0.57 | 0.15011095 | 5 | 1.157895 |
| Nudt19 | 1.62E-05 | 0.135998504 | 0.3 | 0.216 | 0.160534545 | 5 | 1.388889 |
| Psm3 | 1.62E-05 | 0.157259921 | 0.787 | 0.73 | 0.16105676 | 5 | 1.078082 |
| BC005561 | 1.68E-05 | 0.133017994 | 0.254 | 0.151 | 0.16748604 | 5 | 1.682119 |
| Rcn1 | 1.78E-05 | 0.115908817 | 0.262 | 0.194 | 0.176733594 | 5 | 1.350515 |
| Psmg1 | 1.88E-05 | 0.111111935 | 0.254 | 0.157 | 0.186703486 | 5 | 1.617834 |
| Sars | 1.88E-05 | 0.147088274 | 0.519 | 0.445 | 0.187113054 | 5 | 1.166292 |
| Mak16 | 1.97E-05 | 0.165785728 | 0.363 | 0.263 | 0.195877131 | 5 | 1.380228 |
| Hnrnpa0 | 2.21E-05 | 0.104934193 | 0.297 | 0.208 | 0.220137845 | 5 | 1.427885 |
| Arf6 | 2.27E-05 | 0.149613742 | 0.597 | 0.518 | 0.226004539 | 5 | 1.15251 |
| Birc2 | 2.43E-05 | 0.080729706 | 0.262 | 0.22 | 0.241914415 | 5 | 1.190909 |
| Dnlz | 2.44E-05 | 0.121863937 | 0.254 | 0.154 | 0.242111963 | 5 | 1.649351 |
| Arpp19 | 2.49E-05 | 0.139686582 | 0.758 | 0.724 | 0.247412348 | 5 | 1.046961 |
| Grpel1 | 2.60E-05 | 0.157791324 | 0.51 | 0.407 | 0.258835083 | 5 | 1.253071 |
| H3f3a | 2.62E-05 | 0.114045294 | 0.974 | 0.967 | 0.260588514 | 5 | 1.007239 |
| Lsm12 | 2.70E-05 | 0.157724058 | 0.435 | 0.309 | 0.268294092 | 5 | 1.407767 |
| Psmb2 | 2.77E-05 | 0.151601405 | 0.744 | 0.668 | 0.275815241 | 5 | 1.113772 |
| Hspa14 | 2.84E-05 | 0.166020858 | 0.378 | 0.262 | 0.281811473 | 5 | 1.442748 |
| Ubl4a | 2.88E-05 | 0.164313464 | 0.366 | 0.246 | 0.285907162 | 5 | 1.487805 |
| Kars | 2.94E-05 | 0.12602985 | 0.285 | 0.197 | 0.291975984 | 5 | 1.446701 |
| Exosc8 | 2.98E-05 | 0.166904168 | 0.481 | 0.362 | 0.296408772 | 5 | 1.328729 |
| Eif3l | 3.06E-05 | 0.153242281 | 0.47 | 0.378 | 0.304466487 | 5 | 1.243386 |
| Dynll1 | 3.13E-05 | 0.161166115 | 0.888 | 0.825 | 0.311120984 | 5 | 1.076364 |
| Zfp281 | 3.13E-05 | 0.160902518 | 0.395 | 0.271 | 0.311337015 | 5 | 1.457565 |
| Ptges3 | 3.32E-05 | 0.162603359 | 0.478 | 0.362 | 0.330119235 | 5 | 1.320442 |
| Timm10b | 3.85E-05 | 0.160882797 | 0.614 | 0.511 | 0.382942356 | 5 | 1.201566 |
| Hnrnpa3 | 3.95E-05 | 0.152022473 | 0.853 | 0.813 | 0.392855759 | 5 | 1.0492 |
| Srsf10 | 3.97E-05 | 0.172339263 | 0.47 | 0.366 | 0.394528429 | 5 | 1.284153 |
| Clpp | 4.14E-05 | 0.126881675 | 0.303 | 0.21 | 0.411616487 | 5 | 1.442857 |
| Ptpn1 | 4.22E-05 | 0.143951655 | 0.556 | 0.47 | 0.419724924 | 5 | 1.182979 |
| Bzw2 | 4.29E-05 | 0.167402032 | 0.527 | 0.418 | 0.42646761 | 5 | 1.260766 |

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|----------|-------------|-------------|-------|-------|-------------|---|----------|
| Nasp | 4.44E-05 | 0.165311045 | 0.323 | 0.222 | 0.441336191 | 5 | 1.454955 |
| Parl | 4.56E-05 | 0.050216883 | 0.294 | 0.239 | 0.453026376 | 5 | 1.230126 |
| Tbl1x | 4.58E-05 | 0.122079491 | 0.337 | 0.266 | 0.455119095 | 5 | 1.266917 |
| Prdx3 | 4.64E-05 | 0.140389457 | 0.447 | 0.357 | 0.460919796 | 5 | 1.252101 |
| Oser1 | 4.95E-05 | 0.090886328 | 0.334 | 0.285 | 0.491543237 | 5 | 1.17193 |
| Syngn2 | 4.97E-05 | 0.127440683 | 0.268 | 0.174 | 0.493580417 | 5 | 1.54023 |
| Mrpl21 | 4.98E-05 | 0.151353808 | 0.435 | 0.31 | 0.495268508 | 5 | 1.403226 |
| Tm9sf3 | 5.03E-05 | 0.159676447 | 0.493 | 0.387 | 0.499987872 | 5 | 1.273902 |
| Il6st | 5.14E-05 | 0.137527703 | 0.323 | 0.241 | 0.511261071 | 5 | 1.340249 |
| Cd2 | 5.19E-05 | 0.145833125 | 0.885 | 0.864 | 0.515873435 | 5 | 1.024306 |
| M6pr | 5.31E-05 | 0.142293689 | 0.458 | 0.357 | 0.527965682 | 5 | 1.282913 |
| Aimp1 | 5.47E-05 | 0.130793536 | 0.499 | 0.437 | 0.543784927 | 5 | 1.141876 |
| Ddx10 | 5.49E-05 | 0.166893315 | 0.357 | 0.249 | 0.546022502 | 5 | 1.433735 |
| Mrpl23 | 5.77E-05 | 0.135906826 | 0.628 | 0.568 | 0.573716417 | 5 | 1.105634 |
| Ubxn2a | 6.21E-05 | 0.140606597 | 0.262 | 0.171 | 0.616796836 | 5 | 1.532164 |
| Erdr1 | 6.48E-05 | 0.156756318 | 0.403 | 0.329 | 0.644468958 | 5 | 1.224924 |
| Cnbp | 6.77E-05 | 0.13701793 | 0.902 | 0.878 | 0.672677361 | 5 | 1.027335 |
| Cox7b | 7.30E-05 | 0.118319969 | 0.735 | 0.723 | 0.725479944 | 5 | 1.016598 |
| Prpf19 | 7.70E-05 | 0.159605187 | 0.32 | 0.218 | 0.764957068 | 5 | 1.46789 |
| Mrps10 | 7.70E-05 | 0.143898814 | 0.369 | 0.259 | 0.765071282 | 5 | 1.42471 |
| Ube2i | 8.00E-05 | 0.142442659 | 0.764 | 0.65 | 0.795182551 | 5 | 1.175385 |
| Xlr4b | 8.07E-05 | 0.111859711 | 0.375 | 0.306 | 0.80202551 | 5 | 1.22549 |
| H2-K1 | 8.18E-05 | 0.099036391 | 1 | 0.998 | 0.812921818 | 5 | 1.002004 |
| Tmed2 | 8.21E-05 | 0.132384372 | 0.813 | 0.721 | 0.815928729 | 5 | 1.127601 |
| Ptpn2 | 8.26E-05 | 0.049074757 | 0.277 | 0.265 | 0.821499391 | 5 | 1.045283 |
| Uchl3 | 8.80E-05 | 0.142561686 | 0.435 | 0.314 | 0.875122486 | 5 | 1.38535 |
| Usp1 | 8.85E-05 | 0.143894315 | 0.34 | 0.233 | 0.879904848 | 5 | 1.459227 |
| Sla | 8.88E-05 | 0.134832497 | 0.254 | 0.182 | 0.882985703 | 5 | 1.395604 |
| Taf7 | 9.04E-05 | 0.124943113 | 0.291 | 0.192 | 0.898658136 | 5 | 1.515625 |
| Pdrg1 | 9.08E-05 | 0.126017435 | 0.429 | 0.338 | 0.902551933 | 5 | 1.269231 |
| Slc25a3 | 9.38E-05 | 0.142866118 | 0.853 | 0.802 | 0.932435634 | 5 | 1.063591 |
| Psm6 | 9.42E-05 | 0.155125977 | 0.435 | 0.317 | 0.936167612 | 5 | 1.37224 |
| Stt3a | 9.43E-05 | 0.120070301 | 0.28 | 0.188 | 0.93712495 | 5 | 1.489362 |
| Ormdl2 | 9.79E-05 | 0.080268968 | 0.251 | 0.186 | 0.973006163 | 5 | 1.349462 |
| Mrps18b | 0.000105691 | 0.094182163 | 0.297 | 0.234 | 1 | 5 | 1.269231 |
| Tceb1 | 0.000106373 | 0.154703389 | 0.605 | 0.486 | 1 | 5 | 1.244856 |
| Tnfrsf25 | 0.000106629 | 0.144994905 | 0.268 | 0.179 | 1 | 5 | 1.497207 |
| Sarnp | 0.000107036 | 0.163638613 | 0.628 | 0.526 | 1 | 5 | 1.193916 |
| Chrac1 | 0.000107488 | 0.126195577 | 0.487 | 0.412 | 1 | 5 | 1.182039 |
| Rasa2 | 0.000113393 | 0.130324313 | 0.334 | 0.233 | 1 | 5 | 1.433476 |
| Bre | 0.000113484 | 0.08988562 | 0.294 | 0.239 | 1 | 5 | 1.230126 |
| Hdac2 | 0.00011613 | 0.133382549 | 0.363 | 0.268 | 1 | 5 | 1.354478 |
| Nr2c2ap | 0.000118722 | 0.121036391 | 0.262 | 0.172 | 1 | 5 | 1.523256 |
| Cd6 | 0.000125327 | 0.16416871 | 0.51 | 0.433 | 1 | 5 | 1.177829 |
| Filip1l | 0.000128956 | 0.14625263 | 0.331 | 0.285 | 1 | 5 | 1.161404 |
| Rpn1 | 0.000131655 | 0.142708752 | 0.277 | 0.19 | 1 | 5 | 1.457895 |
| Ndufb6 | 0.000134358 | 0.139737681 | 0.539 | 0.422 | 1 | 5 | 1.277251 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Hspbp1 | 0.000134397 | 0.119196703 | 0.277 | 0.186 | 1 | 5 | 1.489247 |
| Pak1ip1 | 0.000140324 | 0.121800159 | 0.432 | 0.335 | 1 | 5 | 1.289552 |
| Kcnq1ot1 | 0.000141828 | 0.151585042 | 0.556 | 0.453 | 1 | 5 | 1.227373 |
| Nubp2 | 0.000152677 | 0.091948341 | 0.274 | 0.195 | 1 | 5 | 1.405128 |
| Cltb | 0.000154771 | 0.10933148 | 0.271 | 0.19 | 1 | 5 | 1.426316 |
| Imp4 | 0.000154852 | 0.119224994 | 0.369 | 0.262 | 1 | 5 | 1.408397 |
| Ddx3x | 0.000156208 | 0.127557488 | 0.337 | 0.25 | 1 | 5 | 1.348 |
| Rrp1 | 0.000158414 | 0.155473371 | 0.637 | 0.524 | 1 | 5 | 1.215649 |
| Zwint | 0.00015927 | 0.112420198 | 0.305 | 0.247 | 1 | 5 | 1.234818 |
| Sf3b3 | 0.000166626 | 0.12132298 | 0.277 | 0.182 | 1 | 5 | 1.521978 |
| Thumpd1 | 0.000171708 | 0.153156146 | 0.375 | 0.268 | 1 | 5 | 1.399254 |
| Ruvbl1 | 0.000173927 | 0.122157153 | 0.277 | 0.186 | 1 | 5 | 1.489247 |
| Adss | 0.000176703 | 0.144592226 | 0.455 | 0.347 | 1 | 5 | 1.311239 |
| Snrpc | 0.000187507 | 0.080123048 | 0.447 | 0.401 | 1 | 5 | 1.114713 |
| Kti12 | 0.000190569 | 0.076652712 | 0.262 | 0.197 | 1 | 5 | 1.329949 |
| Agfg1 | 0.000194587 | 0.114218107 | 0.277 | 0.217 | 1 | 5 | 1.276498 |
| Smarca4 | 0.000195532 | 0.094679825 | 0.251 | 0.166 | 1 | 5 | 1.512048 |
| Eef1g | 0.0001966 | 0.110016071 | 0.986 | 0.991 | 1 | 5 | 0.994955 |
| Exosc5 | 0.000197953 | 0.122060395 | 0.415 | 0.322 | 1 | 5 | 1.28882 |
| Copb2 | 0.000198057 | 0.113560172 | 0.38 | 0.275 | 1 | 5 | 1.381818 |
| Lsg1 | 0.000198937 | 0.104248676 | 0.268 | 0.181 | 1 | 5 | 1.480663 |
| Cd3g | 0.000201238 | 0.111594487 | 0.988 | 0.99 | 1 | 5 | 0.99798 |
| Bud31 | 0.000207854 | 0.123489479 | 0.501 | 0.419 | 1 | 5 | 1.195704 |
| Lcp1 | 0.000220039 | 0.128488982 | 0.856 | 0.815 | 1 | 5 | 1.050307 |
| Tox4 | 0.000235044 | 0.080793602 | 0.282 | 0.229 | 1 | 5 | 1.231441 |
| Izumo1r | 0.000242206 | 0.215245513 | 0.34 | 0.233 | 1 | 5 | 1.459227 |
| Sec61a1 | 0.000242776 | 0.135832074 | 0.291 | 0.197 | 1 | 5 | 1.477157 |
| Timm17b | 0.00025801 | 0.14540061 | 0.337 | 0.231 | 1 | 5 | 1.458874 |
| Gtf2f2 | 0.000266626 | 0.1195136 | 0.254 | 0.167 | 1 | 5 | 1.520958 |
| Tpi1 | 0.000270111 | 0.11973439 | 0.271 | 0.203 | 1 | 5 | 1.334975 |
| Get4 | 0.000275898 | 0.143458536 | 0.274 | 0.177 | 1 | 5 | 1.548023 |
| Cstf3 | 0.000277583 | 0.124362957 | 0.291 | 0.202 | 1 | 5 | 1.440594 |
| Jagn1 | 0.000284276 | 0.095114157 | 0.277 | 0.204 | 1 | 5 | 1.357843 |
| Clec2d | 0.000288996 | 0.136038807 | 0.519 | 0.43 | 1 | 5 | 1.206977 |
| Hiat1 | 0.000303413 | 0.0982208 | 0.308 | 0.219 | 1 | 5 | 1.406393 |
| Zc3h18 | 0.000304536 | 0.090762118 | 0.251 | 0.193 | 1 | 5 | 1.300518 |
| 1810022K09Rik | 0.000306742 | 0.158468428 | 0.504 | 0.407 | 1 | 5 | 1.238329 |
| Diablo | 0.000337614 | 0.147241652 | 0.308 | 0.21 | 1 | 5 | 1.466667 |
| Pdap1 | 0.000341595 | 0.143896728 | 0.401 | 0.339 | 1 | 5 | 1.182891 |
| Hnrnp2 | 0.000344082 | 0.105747224 | 0.349 | 0.254 | 1 | 5 | 1.374016 |
| Wdr61 | 0.000347917 | 0.141509043 | 0.343 | 0.247 | 1 | 5 | 1.388664 |
| Ifi47 | 0.000354611 | 0.100920827 | 0.617 | 0.616 | 1 | 5 | 1.001623 |
| Snapc5 | 0.000362002 | 0.011889325 | 0.349 | 0.32 | 1 | 5 | 1.090625 |
| Kpna4 | 0.000369583 | 0.007231686 | 0.337 | 0.291 | 1 | 5 | 1.158076 |
| Rraga | 0.000370773 | 0.096667485 | 0.285 | 0.221 | 1 | 5 | 1.289593 |
| Matr3 | 0.000381732 | 0.117410532 | 0.536 | 0.498 | 1 | 5 | 1.076305 |
| Sf1 | 0.000385076 | 0.07910871 | 0.277 | 0.233 | 1 | 5 | 1.188841 |

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|---------|-------------|-------------|-------|-------|---|---|----------|
| Ghitm | 0.000409148 | 0.138043677 | 0.533 | 0.417 | 1 | 5 | 1.278177 |
| Glrx5 | 0.000421358 | 0.118651888 | 0.513 | 0.447 | 1 | 5 | 1.147651 |
| Nob1 | 0.000428591 | 0.141779593 | 0.291 | 0.201 | 1 | 5 | 1.447761 |
| Bag5 | 0.000430949 | 0.107784988 | 0.256 | 0.17 | 1 | 5 | 1.505882 |
| Ogfr | 0.000450615 | 0.030030185 | 0.277 | 0.234 | 1 | 5 | 1.183761 |
| Nubp1 | 0.000455177 | 0.127590315 | 0.432 | 0.323 | 1 | 5 | 1.337461 |
| Dcaf13 | 0.000470783 | 0.126509492 | 0.28 | 0.185 | 1 | 5 | 1.513514 |
| Cyc1 | 0.000486945 | 0.128769128 | 0.527 | 0.452 | 1 | 5 | 1.165929 |
| Psmc2 | 0.000494298 | 0.118559681 | 0.484 | 0.386 | 1 | 5 | 1.253886 |
| Azi2 | 0.000495123 | 0.048643358 | 0.314 | 0.277 | 1 | 5 | 1.133574 |
| Pin1 | 0.000516269 | 0.120819405 | 0.366 | 0.275 | 1 | 5 | 1.330909 |
| Sec13 | 0.000531409 | 0.077790958 | 0.337 | 0.252 | 1 | 5 | 1.337302 |
| Cd4 | 0.000535455 | 0.115323352 | 0.395 | 0.339 | 1 | 5 | 1.165192 |
| Psmg2 | 0.000538451 | 0.124656487 | 0.251 | 0.163 | 1 | 5 | 1.539877 |
| Vasp | 0.000544573 | 0.139922435 | 0.859 | 0.813 | 1 | 5 | 1.056581 |
| Zranb2 | 0.00054471 | 0.119478817 | 0.447 | 0.338 | 1 | 5 | 1.322485 |
| Ppp2r2a | 0.000560035 | 0.101414359 | 0.412 | 0.312 | 1 | 5 | 1.320513 |
| Cdc5l | 0.000562556 | 0.144946641 | 0.409 | 0.333 | 1 | 5 | 1.228228 |
| Eif3j1 | 0.000562602 | 0.11800721 | 0.455 | 0.352 | 1 | 5 | 1.292614 |
| Serp1 | 0.00057429 | 0.097606495 | 0.412 | 0.388 | 1 | 5 | 1.061856 |
| Wdr74 | 0.000582331 | 0.120302408 | 0.274 | 0.199 | 1 | 5 | 1.376884 |
| Fbxw2 | 0.00059888 | 0.031976192 | 0.409 | 0.383 | 1 | 5 | 1.067885 |
| Lsm7 | 0.000601744 | 0.123411737 | 0.386 | 0.327 | 1 | 5 | 1.180428 |
| Zcchc7 | 0.000612888 | 0.089431466 | 0.539 | 0.434 | 1 | 5 | 1.241935 |
| Dph3 | 0.000633311 | 0.118320001 | 0.357 | 0.26 | 1 | 5 | 1.373077 |
| Rae1 | 0.000636529 | 0.115026949 | 0.395 | 0.314 | 1 | 5 | 1.257962 |
| Cul5 | 0.000643245 | 0.047284132 | 0.265 | 0.211 | 1 | 5 | 1.255924 |
| Cd53 | 0.000654996 | 0.106827962 | 0.899 | 0.882 | 1 | 5 | 1.019274 |
| Mpc1 | 0.000671702 | 0.118098783 | 0.513 | 0.415 | 1 | 5 | 1.236145 |
| Derl2 | 0.00071823 | 0.030213677 | 0.268 | 0.223 | 1 | 5 | 1.201794 |
| Rexo2 | 0.000726865 | 0.130559612 | 0.674 | 0.576 | 1 | 5 | 1.170139 |
| Med29 | 0.000737095 | 0.087819344 | 0.268 | 0.201 | 1 | 5 | 1.333333 |
| Tra2b | 0.00074866 | 0.13527059 | 0.738 | 0.646 | 1 | 5 | 1.142415 |
| Alg5 | 0.000761257 | 0.057115415 | 0.329 | 0.255 | 1 | 5 | 1.290196 |
| Prdx6 | 0.00076549 | 0.120127237 | 0.72 | 0.674 | 1 | 5 | 1.068249 |
| Knop1 | 0.000789405 | 0.114927541 | 0.323 | 0.233 | 1 | 5 | 1.386266 |
| Pbdc1 | 0.000796718 | 0.107656836 | 0.32 | 0.232 | 1 | 5 | 1.37931 |
| Pdcd5 | 0.000813513 | 0.147514909 | 0.53 | 0.443 | 1 | 5 | 1.196388 |
| Zpr1 | 0.000821133 | 0.072511312 | 0.285 | 0.229 | 1 | 5 | 1.244541 |
| Exosc1 | 0.000830026 | 0.056871745 | 0.268 | 0.205 | 1 | 5 | 1.307317 |
| Lsm5 | 0.000835942 | 0.141194779 | 0.64 | 0.541 | 1 | 5 | 1.182994 |
| Ube2j2 | 0.00084302 | 0.135074183 | 0.427 | 0.327 | 1 | 5 | 1.30581 |
| Gemin7 | 0.000843339 | 0.093356773 | 0.403 | 0.307 | 1 | 5 | 1.312704 |
| Prkca | 0.000857804 | 0.080574926 | 0.274 | 0.239 | 1 | 5 | 1.146444 |
| Fkbp1a | 0.000882597 | 0.146223642 | 0.7 | 0.612 | 1 | 5 | 1.143791 |
| Gmps | 0.000935845 | 0.127365909 | 0.317 | 0.22 | 1 | 5 | 1.440909 |
| Tgs1 | 0.000960295 | 0.135619795 | 0.297 | 0.216 | 1 | 5 | 1.375 |

| | | | | | | | |
|---------|-------------|-------------|-------|-------|---|---|----------|
| Gbbp1 | 0.000965448 | 0.099670056 | 0.51 | 0.434 | 1 | 5 | 1.175115 |
| Tomm20 | 0.000969919 | 0.119031552 | 0.888 | 0.861 | 1 | 5 | 1.031359 |
| Canx | 0.000974561 | 0.144441485 | 0.516 | 0.426 | 1 | 5 | 1.211268 |
| Tcerg1 | 0.000985613 | 0.106553951 | 0.259 | 0.174 | 1 | 5 | 1.488506 |
| Csde1 | 0.000991386 | 0.076092149 | 0.476 | 0.45 | 1 | 5 | 1.057778 |
| Sumo3 | 0.000992942 | 0.053160923 | 0.308 | 0.243 | 1 | 5 | 1.26749 |
| Ikzf1 | 0.00099569 | 0.117601881 | 0.643 | 0.584 | 1 | 5 | 1.101027 |
| Hprt | 0.001000246 | 0.142197578 | 0.545 | 0.444 | 1 | 5 | 1.227477 |
| Dnajb11 | 0.001015218 | 0.091032444 | 0.424 | 0.331 | 1 | 5 | 1.280967 |
| Vars | 0.001030949 | 0.13202453 | 0.331 | 0.234 | 1 | 5 | 1.41453 |
| Laptm4a | 0.001093956 | 0.108832831 | 0.516 | 0.423 | 1 | 5 | 1.219858 |
| Mrpl41 | 0.001104625 | 0.126394712 | 0.395 | 0.299 | 1 | 5 | 1.32107 |
| Dnttip2 | 0.001106868 | 0.127744501 | 0.435 | 0.343 | 1 | 5 | 1.268222 |
| Prpf40a | 0.001107627 | 0.134340913 | 0.614 | 0.53 | 1 | 5 | 1.158491 |
| Adk | 0.001113077 | 0.127480859 | 0.262 | 0.19 | 1 | 5 | 1.378947 |
| Brd2 | 0.001133542 | 0.031852226 | 0.36 | 0.296 | 1 | 5 | 1.216216 |
| Nol8 | 0.001138833 | 0.114312869 | 0.251 | 0.191 | 1 | 5 | 1.314136 |
| Mrps12 | 0.001144268 | 0.049883345 | 0.285 | 0.226 | 1 | 5 | 1.261062 |
| Rpl36al | 0.001156438 | 0.089007093 | 0.997 | 0.988 | 1 | 5 | 1.009109 |
| Impa1 | 0.001167247 | 0.031335631 | 0.256 | 0.216 | 1 | 5 | 1.185185 |
| Cflar | 0.001226082 | 0.077972489 | 0.323 | 0.29 | 1 | 5 | 1.113793 |
| Nxt1 | 0.001250149 | 0.073433875 | 0.28 | 0.211 | 1 | 5 | 1.327014 |
| Ptbp1 | 0.001251919 | 0.102931588 | 0.314 | 0.25 | 1 | 5 | 1.256 |
| Pdia6 | 0.001271348 | 0.089374329 | 0.424 | 0.376 | 1 | 5 | 1.12766 |
| Srsf4 | 0.001279929 | 0.06793677 | 0.251 | 0.204 | 1 | 5 | 1.230392 |
| Dnajc2 | 0.00128576 | 0.118438489 | 0.458 | 0.374 | 1 | 5 | 1.224599 |
| Tmem123 | 0.001286733 | 0.080461466 | 0.412 | 0.355 | 1 | 5 | 1.160563 |
| Taf15 | 0.001305931 | 0.013158699 | 0.28 | 0.236 | 1 | 5 | 1.186441 |
| Mrps18a | 0.001324583 | 0.110400458 | 0.349 | 0.261 | 1 | 5 | 1.337165 |
| Cpsf3l | 0.001326903 | 0.102600356 | 0.28 | 0.196 | 1 | 5 | 1.428571 |
| Eri1 | 0.001344374 | 0.092505672 | 0.346 | 0.257 | 1 | 5 | 1.346304 |
| Rbm3 | 0.001359119 | 0.108966193 | 0.96 | 0.952 | 1 | 5 | 1.008403 |
| Gm12166 | 0.001372017 | 0.12034433 | 0.421 | 0.318 | 1 | 5 | 1.323899 |
| Isy1 | 0.001406657 | 0.095177635 | 0.268 | 0.188 | 1 | 5 | 1.425532 |
| Desi2 | 0.001418746 | 0.09601543 | 0.314 | 0.227 | 1 | 5 | 1.38326 |
| Acsf5 | 0.001453253 | 0.109459728 | 0.331 | 0.255 | 1 | 5 | 1.298039 |
| Nmt1 | 0.00146907 | 0.130217501 | 0.375 | 0.284 | 1 | 5 | 1.320423 |
| Mrfap1 | 0.001473564 | 0.136430295 | 0.599 | 0.516 | 1 | 5 | 1.160853 |
| Pfdn2 | 0.00148278 | 0.115167878 | 0.64 | 0.593 | 1 | 5 | 1.079258 |
| Ssrp1 | 0.001484731 | 0.136934679 | 0.539 | 0.437 | 1 | 5 | 1.23341 |
| Ciapin1 | 0.001508293 | 0.045965057 | 0.254 | 0.204 | 1 | 5 | 1.245098 |
| Ubap2l | 0.00160488 | 0.135441655 | 0.49 | 0.416 | 1 | 5 | 1.177885 |
| Tox | 0.001638812 | 0.143369393 | 0.285 | 0.208 | 1 | 5 | 1.370192 |
| Uqcr11 | 0.001639111 | 0.115040874 | 0.709 | 0.658 | 1 | 5 | 1.077508 |
| Las1l | 0.001706843 | 0.080645988 | 0.288 | 0.222 | 1 | 5 | 1.297297 |
| Denr | 0.001712216 | 0.112983495 | 0.49 | 0.388 | 1 | 5 | 1.262887 |
| Tra2a | 0.00174124 | 0.100818505 | 0.386 | 0.319 | 1 | 5 | 1.210031 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Mrpl32 | 0.001770637 | 0.097034351 | 0.38 | 0.294 | 1 | 5 | 1.292517 |
| Srsf9 | 0.0018001 | 0.12596557 | 0.256 | 0.173 | 1 | 5 | 1.479769 |
| Tesc | 0.001810748 | 0.119729484 | 0.28 | 0.194 | 1 | 5 | 1.443299 |
| Pfdn6 | 0.001824921 | 0.071565097 | 0.392 | 0.335 | 1 | 5 | 1.170149 |
| Tcof1 | 0.00185148 | 0.114554592 | 0.438 | 0.341 | 1 | 5 | 1.284457 |
| Ube2k | 0.001855864 | 0.123868908 | 0.476 | 0.375 | 1 | 5 | 1.269333 |
| Commd1 | 0.001869443 | 0.078720385 | 0.303 | 0.224 | 1 | 5 | 1.352679 |
| Ndufv1 | 0.001935304 | 0.039903865 | 0.317 | 0.259 | 1 | 5 | 1.223938 |
| Clptm1l | 0.002015273 | 0.106488924 | 0.329 | 0.248 | 1 | 5 | 1.326613 |
| Abcf1 | 0.002074577 | 0.112755844 | 0.444 | 0.371 | 1 | 5 | 1.196765 |
| Sumo1 | 0.002101482 | 0.119259745 | 0.764 | 0.679 | 1 | 5 | 1.125184 |
| Mob3a | 0.002201498 | 0.07403023 | 0.256 | 0.221 | 1 | 5 | 1.158371 |
| Stat3 | 0.002227399 | 0.108954775 | 0.401 | 0.328 | 1 | 5 | 1.222561 |
| Nufip2 | 0.002234664 | 0.054585384 | 0.256 | 0.214 | 1 | 5 | 1.196262 |
| Dnaja2 | 0.002276987 | 0.117699728 | 0.565 | 0.507 | 1 | 5 | 1.114398 |
| Mphosph8 | 0.002331012 | 0.076804815 | 0.329 | 0.25 | 1 | 5 | 1.316 |
| mt-Nd1 | 0.002345217 | 0.021411294 | 1 | 1 | 1 | 5 | 1 |
| Atp5o | 0.002345587 | 0.117122933 | 0.79 | 0.751 | 1 | 5 | 1.051931 |
| Nudt21 | 0.00235539 | 0.114470987 | 0.559 | 0.462 | 1 | 5 | 1.209957 |
| Utp11l | 0.00241822 | 0.085795423 | 0.36 | 0.31 | 1 | 5 | 1.16129 |
| Tespa1 | 0.002507756 | 0.126969757 | 0.285 | 0.203 | 1 | 5 | 1.403941 |
| Cops3 | 0.002538001 | 0.093839096 | 0.259 | 0.183 | 1 | 5 | 1.415301 |
| Clns1a | 0.002545555 | 0.113336288 | 0.421 | 0.327 | 1 | 5 | 1.287462 |
| Aldoa | 0.002553804 | 0.120147316 | 0.844 | 0.788 | 1 | 5 | 1.071066 |
| Eif4g2 | 0.002679839 | 0.12556423 | 0.787 | 0.72 | 1 | 5 | 1.093056 |
| Dars | 0.002681473 | 0.09279584 | 0.375 | 0.303 | 1 | 5 | 1.237624 |
| Ndufs7 | 0.002718208 | 0.115294902 | 0.594 | 0.526 | 1 | 5 | 1.129278 |
| Aggf1 | 0.002725814 | 0.098939312 | 0.305 | 0.221 | 1 | 5 | 1.38009 |
| Mrps34 | 0.002777376 | 0.082198678 | 0.427 | 0.353 | 1 | 5 | 1.209632 |
| Tsg101 | 0.00281286 | 0.034431274 | 0.28 | 0.235 | 1 | 5 | 1.191489 |
| Atp1a1 | 0.002812893 | 0.13416328 | 0.504 | 0.407 | 1 | 5 | 1.238329 |
| Actl6a | 0.002820742 | 0.075146522 | 0.357 | 0.293 | 1 | 5 | 1.21843 |
| Tmem243 | 0.002849478 | 0.110278892 | 0.308 | 0.245 | 1 | 5 | 1.257143 |
| Utp14a | 0.002860067 | 0.077859674 | 0.291 | 0.244 | 1 | 5 | 1.192623 |
| Tnik | 0.002898238 | 0.011011861 | 0.334 | 0.339 | 1 | 5 | 0.985251 |
| Alyref | 0.002904871 | 0.10009043 | 0.254 | 0.175 | 1 | 5 | 1.451429 |
| Ccdc107 | 0.002964493 | 0.040191592 | 0.308 | 0.26 | 1 | 5 | 1.184615 |
| Emd | 0.002985855 | 0.086960427 | 0.363 | 0.28 | 1 | 5 | 1.296429 |
| Nemf | 0.003046091 | 0.048383065 | 0.326 | 0.27 | 1 | 5 | 1.207407 |
| Zrsr2 | 0.003079986 | 0.116802183 | 0.346 | 0.259 | 1 | 5 | 1.335907 |
| BC005624 | 0.003123142 | 0.065585348 | 0.401 | 0.321 | 1 | 5 | 1.249221 |
| Huwe1 | 0.003163136 | 0.005459487 | 0.294 | 0.265 | 1 | 5 | 1.109434 |
| Cnot2 | 0.003193042 | 0.035492074 | 0.28 | 0.23 | 1 | 5 | 1.217391 |
| Polr2k | 0.003202231 | 0.090750972 | 0.461 | 0.386 | 1 | 5 | 1.194301 |
| Ergic3 | 0.00327337 | 0.005656178 | 0.265 | 0.252 | 1 | 5 | 1.051587 |
| Rpl22l1 | 0.0032841 | 0.087444366 | 1 | 0.996 | 1 | 5 | 1.004016 |
| Supt16 | 0.003342405 | 0.083326346 | 0.432 | 0.36 | 1 | 5 | 1.2 |

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|---------|-------------|-------------|-------|-------|---|---|----------|
| Ahcyl2 | 0.00336257 | 0.114174276 | 0.274 | 0.199 | 1 | 5 | 1.376884 |
| Prdx2 | 0.003375106 | 0.115142592 | 0.435 | 0.357 | 1 | 5 | 1.218487 |
| Prkar1a | 0.003484279 | 0.112110744 | 0.625 | 0.56 | 1 | 5 | 1.116071 |
| Asf1a | 0.003536406 | 0.024377577 | 0.265 | 0.219 | 1 | 5 | 1.210046 |
| Cisd2 | 0.003594503 | 0.108997412 | 0.49 | 0.401 | 1 | 5 | 1.221945 |
| Akirin1 | 0.003618719 | 0.060498834 | 0.331 | 0.298 | 1 | 5 | 1.110738 |
| Dapk3 | 0.003651375 | 0.027974129 | 0.251 | 0.208 | 1 | 5 | 1.206731 |
| Ccar1 | 0.003656276 | 0.013247203 | 0.259 | 0.22 | 1 | 5 | 1.177273 |
| Polr2f | 0.003741001 | 0.092382611 | 0.476 | 0.437 | 1 | 5 | 1.089245 |
| Mrpl52 | 0.003805155 | 0.123532233 | 0.72 | 0.67 | 1 | 5 | 1.074627 |
| Adrm1 | 0.003823308 | 0.116615125 | 0.398 | 0.304 | 1 | 5 | 1.309211 |
| Ddx39b | 0.00383671 | 0.114946778 | 0.634 | 0.575 | 1 | 5 | 1.102609 |
| Ndufa11 | 0.003909552 | 0.097243861 | 0.646 | 0.547 | 1 | 5 | 1.180987 |
| Ddx5 | 0.003980707 | 0.10154759 | 0.991 | 0.988 | 1 | 5 | 1.003036 |
| Ccdc124 | 0.003992659 | 0.113799381 | 0.383 | 0.31 | 1 | 5 | 1.235484 |
| Iws1 | 0.004018569 | 0.072194653 | 0.3 | 0.227 | 1 | 5 | 1.321586 |
| Ndufb2 | 0.004023264 | 0.13117002 | 0.539 | 0.455 | 1 | 5 | 1.184615 |
| B2m | 0.004043738 | 0.038074996 | 1 | 1 | 1 | 5 | 1 |
| Fcf1 | 0.004048766 | 0.110023442 | 0.375 | 0.293 | 1 | 5 | 1.279863 |
| Esco1 | 0.004068127 | 0.060216552 | 0.34 | 0.278 | 1 | 5 | 1.223022 |
| Nol12 | 0.004111552 | 0.093408198 | 0.378 | 0.298 | 1 | 5 | 1.268456 |
| Lrrfip1 | 0.004186383 | 0.016836973 | 0.576 | 0.565 | 1 | 5 | 1.019469 |
| Tbc1d15 | 0.004204749 | 0.036189926 | 0.285 | 0.233 | 1 | 5 | 1.223176 |
| Jtb | 0.004223173 | 0.085553304 | 0.473 | 0.396 | 1 | 5 | 1.194444 |
| Ythdf2 | 0.004240717 | 0.101273547 | 0.285 | 0.223 | 1 | 5 | 1.278027 |
| Ccdc115 | 0.004247252 | 0.087492519 | 0.32 | 0.283 | 1 | 5 | 1.130742 |
| Mrpl38 | 0.004322644 | 0.061003538 | 0.251 | 0.189 | 1 | 5 | 1.328042 |
| H13 | 0.00437356 | 0.092372891 | 0.49 | 0.44 | 1 | 5 | 1.113636 |
| Thumpd3 | 0.004502975 | 0.106600374 | 0.317 | 0.242 | 1 | 5 | 1.309917 |
| Pld3 | 0.004539088 | 0.112990179 | 0.305 | 0.257 | 1 | 5 | 1.18677 |
| Rbm28 | 0.004706144 | 0.024659093 | 0.265 | 0.216 | 1 | 5 | 1.226852 |
| Sf3a3 | 0.004716458 | 0.0824036 | 0.354 | 0.277 | 1 | 5 | 1.277978 |
| Sf3b6 | 0.004761369 | 0.074921806 | 0.643 | 0.636 | 1 | 5 | 1.011006 |
| Bax | 0.004770569 | 0.114687851 | 0.579 | 0.532 | 1 | 5 | 1.088346 |
| Ccnt1 | 0.004842033 | 0.082836457 | 0.28 | 0.205 | 1 | 5 | 1.365854 |
| Wbp11 | 0.004893096 | 0.100681597 | 0.461 | 0.37 | 1 | 5 | 1.245946 |
| Timm17a | 0.004952231 | 0.119848805 | 0.435 | 0.34 | 1 | 5 | 1.279412 |
| Usp34 | 0.004993175 | 0.119732054 | 0.438 | 0.36 | 1 | 5 | 1.216667 |
| Cbfb | 0.005069302 | 0.106516968 | 0.314 | 0.23 | 1 | 5 | 1.365217 |
| Sf3a2 | 0.005122487 | 0.112880891 | 0.291 | 0.21 | 1 | 5 | 1.385714 |
| Dut | 0.005144272 | 0.086714206 | 0.334 | 0.299 | 1 | 5 | 1.117057 |
| Ndufb4 | 0.005190748 | 0.073385361 | 0.68 | 0.59 | 1 | 5 | 1.152542 |
| Ndufs8 | 0.005263986 | 0.113307954 | 0.452 | 0.371 | 1 | 5 | 1.218329 |
| Arfrp1 | 0.005313317 | 0.098112152 | 0.372 | 0.286 | 1 | 5 | 1.300699 |
| Ube2s | 0.005347362 | 0.121545344 | 0.487 | 0.398 | 1 | 5 | 1.223618 |
| Max | 0.005438512 | 0.068647996 | 0.415 | 0.336 | 1 | 5 | 1.235119 |
| Dido1 | 0.005744411 | 0.058317143 | 0.282 | 0.218 | 1 | 5 | 1.293578 |

| | | | | | | | |
|-------------|-------------|-------------|-------|-------|---|---|----------|
| Smu1 | 0.005824183 | 0.061779893 | 0.352 | 0.303 | 1 | 5 | 1.161716 |
| Saysd1 | 0.005826555 | 0.096028649 | 0.28 | 0.224 | 1 | 5 | 1.25 |
| Mgat2 | 0.00598064 | 0.101399053 | 0.441 | 0.361 | 1 | 5 | 1.221607 |
| Ndufab1 | 0.006008937 | 0.103130077 | 0.522 | 0.447 | 1 | 5 | 1.167785 |
| Btf3l4 | 0.006012176 | 0.07692814 | 0.329 | 0.259 | 1 | 5 | 1.27027 |
| Sf3b5 | 0.006052003 | 0.106089237 | 0.622 | 0.577 | 1 | 5 | 1.07799 |
| Uqcrc2 | 0.006073362 | 0.042378437 | 0.478 | 0.457 | 1 | 5 | 1.045952 |
| Cops4 | 0.006088801 | 0.066628505 | 0.36 | 0.29 | 1 | 5 | 1.241379 |
| Pcnp | 0.006205397 | 0.080391264 | 0.372 | 0.293 | 1 | 5 | 1.269625 |
| Pcmt1 | 0.006267743 | 0.08228938 | 0.329 | 0.282 | 1 | 5 | 1.166667 |
| Slirp | 0.006375745 | 0.072148255 | 0.386 | 0.307 | 1 | 5 | 1.257329 |
| Ap2m1 | 0.00639809 | 0.093013777 | 0.53 | 0.437 | 1 | 5 | 1.212815 |
| Mydgf | 0.006398654 | 0.102438439 | 0.288 | 0.23 | 1 | 5 | 1.252174 |
| Erp29 | 0.006428913 | 0.098946917 | 0.418 | 0.329 | 1 | 5 | 1.270517 |
| Uqcrrs1 | 0.006458439 | 0.115578149 | 0.697 | 0.613 | 1 | 5 | 1.137031 |
| Vti1b | 0.00654224 | 0.03288559 | 0.346 | 0.31 | 1 | 5 | 1.116129 |
| Eed | 0.006683435 | 0.120178206 | 0.32 | 0.235 | 1 | 5 | 1.361702 |
| Ssbp1 | 0.006749656 | 0.109735526 | 0.458 | 0.375 | 1 | 5 | 1.221333 |
| Cox5b | 0.006764153 | 0.09217797 | 0.83 | 0.785 | 1 | 5 | 1.057325 |
| Snx3 | 0.006836116 | 0.112078825 | 0.533 | 0.481 | 1 | 5 | 1.108108 |
| Ywhae | 0.00710404 | 0.116798429 | 0.591 | 0.535 | 1 | 5 | 1.104673 |
| Prorsd1 | 0.00710504 | 0.046687922 | 0.277 | 0.231 | 1 | 5 | 1.199134 |
| Lsm3 | 0.007245313 | 0.075989096 | 0.458 | 0.396 | 1 | 5 | 1.156566 |
| Polr2c | 0.007266346 | 0.085101304 | 0.372 | 0.296 | 1 | 5 | 1.256757 |
| D8Erttd738e | 0.007358337 | 0.09474909 | 0.752 | 0.682 | 1 | 5 | 1.102639 |
| Nfx1 | 0.007426892 | 0.047867868 | 0.297 | 0.241 | 1 | 5 | 1.232365 |
| Prkch | 0.007444472 | 0.063780414 | 0.317 | 0.284 | 1 | 5 | 1.116197 |
| Gtf3c6 | 0.007522728 | 0.113347956 | 0.303 | 0.225 | 1 | 5 | 1.346667 |
| Mrpl11 | 0.007535815 | 0.000330617 | 0.265 | 0.248 | 1 | 5 | 1.068548 |
| Al662270 | 0.007664473 | 0.093700003 | 0.395 | 0.311 | 1 | 5 | 1.270096 |
| Rbm38 | 0.007711529 | 0.078051922 | 0.461 | 0.427 | 1 | 5 | 1.079625 |
| Mrps28 | 0.007843815 | 0.119372228 | 0.314 | 0.233 | 1 | 5 | 1.347639 |
| Atp5j | 0.008013992 | 0.051826394 | 0.818 | 0.834 | 1 | 5 | 0.980815 |
| Ptp4a2 | 0.008037011 | 0.091534309 | 0.781 | 0.704 | 1 | 5 | 1.109375 |
| Ctbp1 | 0.008113805 | 0.083891151 | 0.565 | 0.497 | 1 | 5 | 1.136821 |
| E2f4 | 0.008129251 | 0.064114964 | 0.274 | 0.223 | 1 | 5 | 1.2287 |
| Bola2 | 0.00824863 | 0.098436322 | 0.821 | 0.746 | 1 | 5 | 1.100536 |
| Hibadh | 0.00825255 | 0.033705907 | 0.268 | 0.235 | 1 | 5 | 1.140426 |
| Timm8b | 0.00830586 | 0.089522733 | 0.401 | 0.315 | 1 | 5 | 1.273016 |
| Fam96a | 0.008349949 | 0.090496797 | 0.49 | 0.417 | 1 | 5 | 1.17506 |
| Rab11b | 0.008379489 | 0.040826225 | 0.527 | 0.455 | 1 | 5 | 1.158242 |
| Ubtf | 0.008551464 | 0.121394813 | 0.432 | 0.341 | 1 | 5 | 1.266862 |
| Naca | 0.008551478 | 0.037962834 | 1 | 0.998 | 1 | 5 | 1.002004 |
| Eny2 | 0.008972272 | 0.094346666 | 0.467 | 0.402 | 1 | 5 | 1.161692 |
| Aco2 | 0.009042143 | 0.059726137 | 0.259 | 0.216 | 1 | 5 | 1.199074 |
| Znrd1 | 0.009181955 | 0.065689303 | 0.378 | 0.32 | 1 | 5 | 1.18125 |
| Ndufv2 | 0.009315017 | 0.107399531 | 0.565 | 0.513 | 1 | 5 | 1.101365 |

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|---------------|-------------|-------------|-------|-------|----------|---|----------|
| Edf1 | 0.009325942 | 0.106949538 | 0.795 | 0.747 | 1 | 5 | 1.064257 |
| Yy1 | 0.009384306 | 0.071249724 | 0.378 | 0.317 | 1 | 5 | 1.192429 |
| Exoc3 | 0.009433015 | 0.0542991 | 0.259 | 0.211 | 1 | 5 | 1.227488 |
| Dap3 | 0.009616479 | 0.043695003 | 0.331 | 0.271 | 1 | 5 | 1.221402 |
| Psmc7 | 0.00961891 | 0.120675534 | 0.444 | 0.357 | 1 | 5 | 1.243697 |
| Psmc3 | 0.009747035 | 0.086026604 | 0.331 | 0.262 | 1 | 5 | 1.263359 |
| Itgb1 | 1.12E-102 | 1.156895888 | 0.621 | 0.196 | 1.11E-98 | 6 | 3.168367 |
| Tbc1d4 | 2.75E-84 | 0.9278299 | 0.482 | 0.058 | 2.73E-80 | 6 | 8.310345 |
| Cd200 | 1.19E-83 | 0.936861998 | 0.442 | 0.052 | 1.18E-79 | 6 | 8.5 |
| Mxd4 | 1.75E-83 | 0.857072688 | 0.688 | 0.308 | 1.74E-79 | 6 | 2.233766 |
| Tnfrsf8 | 8.59E-83 | 0.652376328 | 0.397 | 0.261 | 8.53E-79 | 6 | 1.521073 |
| Prr13 | 5.83E-79 | 0.833711939 | 0.772 | 0.346 | 5.79E-75 | 6 | 2.231214 |
| S100a11 | 4.01E-68 | 0.777403138 | 0.759 | 0.491 | 3.99E-64 | 6 | 1.545825 |
| Slamf6 | 4.34E-67 | 0.833441709 | 0.786 | 0.369 | 4.32E-63 | 6 | 2.130081 |
| Bcl2a1b | 7.29E-66 | 0.891376043 | 0.531 | 0.125 | 7.25E-62 | 6 | 4.248 |
| Maf | 3.06E-63 | 0.766931181 | 0.384 | 0.028 | 3.04E-59 | 6 | 13.71429 |
| Izumo1r | 7.43E-62 | 1.062428585 | 0.723 | 0.22 | 7.38E-58 | 6 | 3.286364 |
| Tiam1 | 1.85E-60 | 0.560414206 | 0.379 | 0.029 | 1.84E-56 | 6 | 13.06897 |
| Bcl2a1d | 2.24E-60 | 0.737276258 | 0.357 | 0.042 | 2.23E-56 | 6 | 8.5 |
| Lgals1 | 1.44E-59 | 0.94080713 | 0.79 | 0.449 | 1.43E-55 | 6 | 1.759465 |
| Srgn | 9.35E-59 | 0.778601353 | 0.83 | 0.684 | 9.30E-55 | 6 | 1.21345 |
| Hmgb2 | 9.63E-59 | 0.744199655 | 0.812 | 0.528 | 9.57E-55 | 6 | 1.537879 |
| Cd28 | 8.59E-58 | 0.698951562 | 0.857 | 0.488 | 8.53E-54 | 6 | 1.756148 |
| Capg | 6.74E-57 | 0.914878166 | 0.647 | 0.274 | 6.70E-53 | 6 | 2.361314 |
| Sapcd1 | 4.07E-56 | 0.902322942 | 0.357 | 0.045 | 4.05E-52 | 6 | 7.933333 |
| Smco4 | 4.67E-55 | 0.655974135 | 0.522 | 0.163 | 4.64E-51 | 6 | 3.202454 |
| Arhgap31 | 4.95E-52 | 0.515271031 | 0.286 | 0.019 | 4.92E-48 | 6 | 15.05263 |
| Ifi27l2a | 1.23E-51 | 0.85963034 | 0.987 | 0.878 | 1.23E-47 | 6 | 1.124146 |
| Icos | 7.15E-51 | 0.781471601 | 0.429 | 0.065 | 7.11E-47 | 6 | 6.6 |
| Gapdh | 8.63E-51 | 0.589999158 | 0.955 | 0.801 | 8.58E-47 | 6 | 1.19226 |
| Pdcd1 | 3.24E-50 | 0.603027726 | 0.254 | 0.018 | 3.22E-46 | 6 | 14.11111 |
| Capn3 | 6.27E-50 | 0.513031182 | 0.312 | 0.024 | 6.23E-46 | 6 | 13 |
| 2310001H17Rik | 1.09E-49 | 0.647101903 | 0.621 | 0.27 | 1.08E-45 | 6 | 2.3 |
| H2afv | 1.97E-49 | 0.53892978 | 0.777 | 0.518 | 1.95E-45 | 6 | 1.5 |
| Clic1 | 4.01E-49 | 0.539654198 | 0.978 | 0.856 | 3.99E-45 | 6 | 1.142523 |
| Sh2d1a | 1.61E-47 | 0.606989653 | 0.656 | 0.395 | 1.60E-43 | 6 | 1.660759 |
| Asap1 | 7.38E-46 | 0.588475546 | 0.705 | 0.331 | 7.33E-42 | 6 | 2.129909 |
| Eea1 | 4.33E-45 | 0.584232885 | 0.272 | 0.034 | 4.31E-41 | 6 | 8 |
| Ctsb | 8.05E-45 | 0.578395664 | 0.661 | 0.299 | 8.00E-41 | 6 | 2.210702 |
| Calhm2 | 1.63E-44 | 0.480866069 | 0.308 | 0.035 | 1.62E-40 | 6 | 8.8 |
| Smpdl3a | 1.74E-43 | 0.536665562 | 0.634 | 0.335 | 1.73E-39 | 6 | 1.892537 |
| Ucp2 | 5.26E-43 | 0.54077186 | 0.942 | 0.764 | 5.23E-39 | 6 | 1.232984 |
| S100a10 | 3.67E-41 | 0.587531368 | 0.938 | 0.812 | 3.64E-37 | 6 | 1.155172 |
| Tesc | 5.08E-41 | 0.605569669 | 0.585 | 0.183 | 5.05E-37 | 6 | 3.196721 |
| Rgs10 | 1.38E-40 | 0.576767545 | 0.929 | 0.791 | 1.37E-36 | 6 | 1.174463 |
| Gng2 | 2.03E-39 | 0.496108923 | 0.438 | 0.112 | 2.02E-35 | 6 | 3.910714 |
| Tnfrsf8 | 6.79E-38 | 0.554843846 | 0.616 | 0.283 | 6.74E-34 | 6 | 2.176678 |

| | | | | | | | |
|----------|----------|-------------|-------|-------|----------|---|----------|
| Ptms | 1.27E-37 | 0.624674882 | 0.46 | 0.13 | 1.27E-33 | 6 | 3.538462 |
| Rgcc | 1.43E-37 | 0.615686925 | 0.504 | 0.255 | 1.42E-33 | 6 | 1.976471 |
| Fyb | 1.30E-36 | 0.491504752 | 0.969 | 0.877 | 1.29E-32 | 6 | 1.104903 |
| Tnfrsf4 | 1.32E-36 | 0.831166412 | 0.455 | 0.106 | 1.31E-32 | 6 | 4.292453 |
| Marcksl1 | 8.43E-35 | 0.834882873 | 0.304 | 0.072 | 8.38E-31 | 6 | 4.222222 |
| Hif1a | 1.83E-34 | 0.44375667 | 0.384 | 0.197 | 1.82E-30 | 6 | 1.949239 |
| Tmsb4x | 3.95E-34 | 0.185829418 | 1 | 1 | 3.93E-30 | 6 | 1 |
| Itm2c | 4.20E-34 | 0.511677076 | 0.705 | 0.337 | 4.18E-30 | 6 | 2.091988 |
| S100a6 | 1.73E-33 | 0.959935819 | 0.384 | 0.081 | 1.72E-29 | 6 | 4.740741 |
| Cxcr6 | 3.94E-33 | 0.653552087 | 0.299 | 0.074 | 3.91E-29 | 6 | 4.040541 |
| Actg1 | 3.19E-32 | 0.444130192 | 1 | 0.995 | 3.17E-28 | 6 | 1.005025 |
| Slc29a1 | 1.03E-31 | 0.433156621 | 0.277 | 0.105 | 1.02E-27 | 6 | 2.638095 |
| Cd44 | 3.70E-31 | 0.464655366 | 0.375 | 0.084 | 3.68E-27 | 6 | 4.464286 |
| BC021614 | 4.44E-31 | 0.526398527 | 0.629 | 0.357 | 4.42E-27 | 6 | 1.761905 |
| Malat1 | 1.19E-30 | 0.192081942 | 1 | 1 | 1.18E-26 | 6 | 1 |
| Rac2 | 1.49E-30 | 0.362419377 | 1 | 0.992 | 1.49E-26 | 6 | 1.008065 |
| Evi2a | 2.71E-29 | 0.420747607 | 0.33 | 0.077 | 2.69E-25 | 6 | 4.285714 |
| H1f0 | 3.56E-29 | 0.499510139 | 0.295 | 0.061 | 3.54E-25 | 6 | 4.836066 |
| Atpif1 | 1.11E-28 | 0.487861748 | 0.616 | 0.312 | 1.10E-24 | 6 | 1.974359 |
| Acot7 | 1.55E-28 | 0.333683091 | 0.281 | 0.045 | 1.54E-24 | 6 | 6.244444 |
| Cd52 | 1.00E-27 | 0.350789169 | 1 | 1 | 9.95E-24 | 6 | 1 |
| Znrf1 | 1.57E-27 | 0.464287605 | 0.576 | 0.29 | 1.56E-23 | 6 | 1.986207 |
| Cd82 | 1.59E-27 | 0.535438076 | 0.576 | 0.292 | 1.58E-23 | 6 | 1.972603 |
| Elk3 | 2.55E-27 | 0.403024099 | 0.406 | 0.128 | 2.54E-23 | 6 | 3.171875 |
| Ptpn22 | 4.28E-27 | 0.457442666 | 0.558 | 0.273 | 4.25E-23 | 6 | 2.043956 |
| Jund | 7.85E-27 | 0.460292889 | 0.799 | 0.571 | 7.80E-23 | 6 | 1.399299 |
| Rap1a | 1.09E-26 | 0.436133663 | 0.853 | 0.601 | 1.09E-22 | 6 | 1.419301 |
| Stk39 | 1.86E-26 | 0.345074793 | 0.286 | 0.054 | 1.85E-22 | 6 | 5.296296 |
| Ptpn7 | 2.23E-26 | 0.465705492 | 0.607 | 0.331 | 2.22E-22 | 6 | 1.833837 |
| Cd3g | 2.25E-26 | 0.366364463 | 1 | 0.989 | 2.23E-22 | 6 | 1.011122 |
| Smap1 | 1.85E-25 | 0.438349741 | 0.576 | 0.289 | 1.84E-21 | 6 | 1.99308 |
| Ptger4 | 2.54E-25 | 0.429046499 | 0.362 | 0.104 | 2.52E-21 | 6 | 3.480769 |
| Tecr | 2.89E-25 | 0.421367087 | 0.759 | 0.447 | 2.88E-21 | 6 | 1.697987 |
| Lpxn | 4.79E-25 | 0.401594956 | 0.496 | 0.186 | 4.76E-21 | 6 | 2.666667 |
| Pou2f2 | 5.35E-25 | 0.494000481 | 0.469 | 0.178 | 5.32E-21 | 6 | 2.634831 |
| Itgal | 8.85E-25 | 0.41397774 | 0.491 | 0.209 | 8.80E-21 | 6 | 2.349282 |
| Zfp36l1 | 2.66E-24 | 0.484246682 | 0.603 | 0.327 | 2.64E-20 | 6 | 1.844037 |
| Ikzf2 | 4.48E-24 | 0.579518139 | 0.344 | 0.087 | 4.45E-20 | 6 | 3.954023 |
| Prdx2 | 4.69E-24 | 0.408139994 | 0.589 | 0.353 | 4.66E-20 | 6 | 1.668555 |
| Ezh2 | 6.88E-24 | 0.417837305 | 0.348 | 0.095 | 6.84E-20 | 6 | 3.663158 |
| H3f3b | 7.04E-24 | 0.28304636 | 1 | 0.994 | 6.99E-20 | 6 | 1.006036 |
| Gdi2 | 1.16E-23 | 0.405573017 | 0.79 | 0.595 | 1.16E-19 | 6 | 1.327731 |
| Sdf4 | 1.40E-23 | 0.390329801 | 0.777 | 0.594 | 1.39E-19 | 6 | 1.308081 |
| Itgb2 | 1.81E-23 | 0.4213695 | 0.705 | 0.44 | 1.80E-19 | 6 | 1.602273 |
| Ankrd12 | 1.96E-23 | 0.434880773 | 0.75 | 0.462 | 1.95E-19 | 6 | 1.623377 |
| Stx6 | 2.36E-23 | 0.394248091 | 0.469 | 0.191 | 2.34E-19 | 6 | 2.455497 |
| Cd96 | 2.40E-23 | 0.388842082 | 0.54 | 0.321 | 2.38E-19 | 6 | 1.682243 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Plgrkt | 3.24E-23 | 0.412816908 | 0.629 | 0.375 | 3.22E-19 | 6 | 1.677333 |
| Pkm | 3.59E-23 | 0.400505856 | 0.915 | 0.792 | 3.57E-19 | 6 | 1.155303 |
| Sh3bgrl | 5.48E-23 | 0.359493543 | 0.33 | 0.083 | 5.44E-19 | 6 | 3.975904 |
| Arl6ip1 | 5.58E-23 | 0.38929821 | 0.92 | 0.717 | 5.55E-19 | 6 | 1.283124 |
| Itm2b | 6.24E-23 | 0.356201915 | 0.996 | 0.969 | 6.21E-19 | 6 | 1.027864 |
| Crif2 | 1.17E-22 | 0.360483793 | 0.393 | 0.131 | 1.17E-18 | 6 | 3 |
| Nxpe3 | 3.62E-22 | 0.333811677 | 0.504 | 0.223 | 3.60E-18 | 6 | 2.26009 |
| Tspan13 | 5.54E-22 | 0.35911905 | 0.723 | 0.482 | 5.50E-18 | 6 | 1.5 |
| Cd40lg | 6.58E-22 | 0.436507055 | 0.415 | 0.147 | 6.54E-18 | 6 | 2.823129 |
| Syt11 | 9.65E-22 | 0.33447846 | 0.29 | 0.068 | 9.59E-18 | 6 | 4.264706 |
| Calm3 | 1.21E-21 | 0.392824958 | 0.754 | 0.475 | 1.20E-17 | 6 | 1.587368 |
| Reep5 | 1.28E-21 | 0.431724276 | 0.665 | 0.408 | 1.27E-17 | 6 | 1.629902 |
| Gltf | 1.87E-21 | 0.386245858 | 0.737 | 0.484 | 1.86E-17 | 6 | 1.522727 |
| Tspan31 | 3.85E-21 | 0.328492303 | 0.362 | 0.114 | 3.83E-17 | 6 | 3.175439 |
| Mthfs | 1.54E-20 | 0.308872949 | 0.312 | 0.103 | 1.53E-16 | 6 | 3.029126 |
| Fkbp1a | 2.54E-20 | 0.385985965 | 0.817 | 0.609 | 2.53E-16 | 6 | 1.341544 |
| Arf5 | 8.10E-20 | 0.337351214 | 0.951 | 0.833 | 8.06E-16 | 6 | 1.141657 |
| Mthfsl | 1.24E-19 | 0.321875146 | 0.375 | 0.136 | 1.23E-15 | 6 | 2.757353 |
| Lrp10 | 1.33E-19 | 0.353515663 | 0.513 | 0.259 | 1.32E-15 | 6 | 1.980695 |
| Nek7 | 1.50E-19 | 0.381576576 | 0.509 | 0.231 | 1.49E-15 | 6 | 2.203463 |
| Vmp1 | 1.65E-19 | 0.395545601 | 0.469 | 0.206 | 1.64E-15 | 6 | 2.276699 |
| Dennd2d | 2.62E-19 | 0.293979012 | 0.402 | 0.284 | 2.61E-15 | 6 | 1.415493 |
| Cd4 | 3.49E-19 | 0.424774547 | 0.616 | 0.331 | 3.47E-15 | 6 | 1.861027 |
| Prkca | 4.71E-19 | 0.378163804 | 0.424 | 0.234 | 4.68E-15 | 6 | 1.811966 |
| Ubb | 6.86E-19 | 0.244216701 | 1 | 1 | 6.82E-15 | 6 | 1 |
| Tnfrsf18 | 6.87E-19 | 0.457043657 | 0.665 | 0.377 | 6.83E-15 | 6 | 1.763926 |
| Capns1 | 1.04E-18 | 0.384836491 | 0.701 | 0.465 | 1.03E-14 | 6 | 1.507527 |
| Ncf4 | 1.35E-18 | 0.353188036 | 0.5 | 0.237 | 1.35E-14 | 6 | 2.109705 |
| Snx20 | 1.55E-18 | 0.337719931 | 0.469 | 0.198 | 1.54E-14 | 6 | 2.368687 |
| Rnf149 | 3.40E-18 | 0.323500945 | 0.321 | 0.116 | 3.38E-14 | 6 | 2.767241 |
| Btg2 | 4.76E-18 | 0.378176934 | 0.866 | 0.671 | 4.73E-14 | 6 | 1.290611 |
| Map1lc3b | 4.89E-18 | 0.345796259 | 0.862 | 0.629 | 4.86E-14 | 6 | 1.370429 |
| Ccdc50 | 8.77E-18 | 0.299417695 | 0.277 | 0.076 | 8.71E-14 | 6 | 3.644737 |
| Pkp3 | 1.12E-17 | 0.392313388 | 0.536 | 0.279 | 1.11E-13 | 6 | 1.921147 |
| Arpc2 | 1.22E-17 | 0.298717901 | 0.973 | 0.974 | 1.21E-13 | 6 | 0.998973 |
| Ndfip1 | 1.42E-17 | 0.288040653 | 0.464 | 0.229 | 1.41E-13 | 6 | 2.026201 |
| Tspan32 | 2.38E-17 | 0.334350057 | 0.772 | 0.475 | 2.36E-13 | 6 | 1.625263 |
| Actb | 3.45E-17 | 0.385195981 | 1 | 1 | 3.43E-13 | 6 | 1 |
| Lbh | 3.85E-17 | 0.333457268 | 0.75 | 0.493 | 3.83E-13 | 6 | 1.521298 |
| Ap2s1 | 3.90E-17 | 0.357096909 | 0.75 | 0.511 | 3.88E-13 | 6 | 1.46771 |
| Ptprcap | 4.45E-17 | 0.316303668 | 0.991 | 0.966 | 4.42E-13 | 6 | 1.02588 |
| Celf2 | 8.37E-17 | 0.330501508 | 0.741 | 0.523 | 8.32E-13 | 6 | 1.416826 |
| Gabarap | 1.62E-16 | 0.328014392 | 0.884 | 0.686 | 1.61E-12 | 6 | 1.28863 |
| Vim | 2.45E-16 | 0.428039355 | 0.804 | 0.631 | 2.44E-12 | 6 | 1.274168 |
| Cldnd1 | 2.49E-16 | 0.317723688 | 0.379 | 0.144 | 2.48E-12 | 6 | 2.631944 |
| Psm4 | 3.19E-16 | 0.324296836 | 0.79 | 0.596 | 3.18E-12 | 6 | 1.325503 |
| Txn1 | 3.28E-16 | 0.347586732 | 0.795 | 0.626 | 3.26E-12 | 6 | 1.269968 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Coro1b | 3.41E-16 | 0.309605734 | 0.558 | 0.291 | 3.39E-12 | 6 | 1.917526 |
| Cmtm7 | 3.81E-16 | 0.236901706 | 0.357 | 0.141 | 3.79E-12 | 6 | 2.531915 |
| Snrnp25 | 4.75E-16 | 0.298370056 | 0.375 | 0.149 | 4.72E-12 | 6 | 2.516779 |
| HnrnpII | 4.93E-16 | 0.252799329 | 0.254 | 0.092 | 4.90E-12 | 6 | 2.76087 |
| Vcp | 5.19E-16 | 0.328178911 | 0.71 | 0.515 | 5.16E-12 | 6 | 1.378641 |
| Cnih4 | 5.79E-16 | 0.294046225 | 0.433 | 0.188 | 5.76E-12 | 6 | 2.303191 |
| Cd9 | 6.01E-16 | 0.275157595 | 0.487 | 0.311 | 5.98E-12 | 6 | 1.565916 |
| Rnaset2a | 6.64E-16 | 0.321978213 | 0.884 | 0.816 | 6.60E-12 | 6 | 1.083333 |
| Cox5b | 8.52E-16 | 0.315994649 | 0.893 | 0.783 | 8.47E-12 | 6 | 1.140485 |
| Mrps6 | 8.61E-16 | 0.312345979 | 0.259 | 0.094 | 8.55E-12 | 6 | 2.755319 |
| Faah | 9.70E-16 | 0.324261109 | 0.46 | 0.229 | 9.64E-12 | 6 | 2.008734 |
| Plp2 | 9.86E-16 | 0.293554959 | 0.299 | 0.113 | 9.80E-12 | 6 | 2.646018 |
| Clec2d | 1.19E-15 | 0.318104642 | 0.679 | 0.426 | 1.19E-11 | 6 | 1.593897 |
| Ptpn11 | 1.26E-15 | 0.273929966 | 0.304 | 0.146 | 1.25E-11 | 6 | 2.082192 |
| Ndufb9 | 1.28E-15 | 0.302850056 | 0.754 | 0.599 | 1.28E-11 | 6 | 1.258765 |
| Snx2 | 1.33E-15 | 0.267812667 | 0.464 | 0.261 | 1.32E-11 | 6 | 1.777778 |
| Ypel3 | 1.77E-15 | 0.301752895 | 0.871 | 0.659 | 1.76E-11 | 6 | 1.3217 |
| Zap70 | 1.78E-15 | 0.311828957 | 0.562 | 0.367 | 1.77E-11 | 6 | 1.531335 |
| Batf | 1.89E-15 | 0.336032796 | 0.357 | 0.186 | 1.88E-11 | 6 | 1.919355 |
| Sec11c | 2.45E-15 | 0.340837543 | 0.719 | 0.488 | 2.44E-11 | 6 | 1.473361 |
| Pbxip1 | 2.90E-15 | 0.265496148 | 0.5 | 0.284 | 2.88E-11 | 6 | 1.760563 |
| Ptpn1 | 3.07E-15 | 0.336244846 | 0.661 | 0.468 | 3.05E-11 | 6 | 1.412393 |
| Ctss | 3.12E-15 | 0.328445211 | 0.808 | 0.576 | 3.10E-11 | 6 | 1.402778 |
| Atp5c1 | 3.52E-15 | 0.309597065 | 0.902 | 0.792 | 3.50E-11 | 6 | 1.138889 |
| Bcl7c | 4.92E-15 | 0.245597726 | 0.281 | 0.095 | 4.89E-11 | 6 | 2.957895 |
| Rnh1 | 5.21E-15 | 0.280880063 | 0.402 | 0.195 | 5.18E-11 | 6 | 2.061538 |
| Nckap1l | 5.24E-15 | 0.189411057 | 0.321 | 0.151 | 5.20E-11 | 6 | 2.125828 |
| Id2 | 6.22E-15 | 0.507752941 | 0.589 | 0.367 | 6.18E-11 | 6 | 1.604905 |
| Scamp3 | 6.44E-15 | 0.325414152 | 0.589 | 0.374 | 6.40E-11 | 6 | 1.574866 |
| S100a13 | 6.86E-15 | 0.333502155 | 0.719 | 0.487 | 6.82E-11 | 6 | 1.476386 |
| Smc4 | 7.28E-15 | 0.426712166 | 0.795 | 0.637 | 7.24E-11 | 6 | 1.248038 |
| Csk | 7.73E-15 | 0.303338404 | 0.714 | 0.484 | 7.68E-11 | 6 | 1.475207 |
| Tnip1 | 1.20E-14 | 0.252085118 | 0.344 | 0.144 | 1.19E-10 | 6 | 2.388889 |
| Hcls1 | 1.40E-14 | 0.331725189 | 0.679 | 0.445 | 1.39E-10 | 6 | 1.525843 |
| Lrmp | 1.71E-14 | 0.228175731 | 0.411 | 0.246 | 1.69E-10 | 6 | 1.670732 |
| Rilpl2 | 2.00E-14 | 0.323982214 | 0.272 | 0.12 | 1.99E-10 | 6 | 2.266667 |
| Cap1 | 2.13E-14 | 0.310887956 | 0.929 | 0.776 | 2.12E-10 | 6 | 1.197165 |
| Stard3nl | 2.50E-14 | 0.159077833 | 0.259 | 0.105 | 2.48E-10 | 6 | 2.466667 |
| Tank | 2.62E-14 | 0.251741659 | 0.339 | 0.145 | 2.61E-10 | 6 | 2.337931 |
| Rbl2 | 2.77E-14 | 0.300234954 | 0.348 | 0.147 | 2.76E-10 | 6 | 2.367347 |
| Cotl1 | 2.77E-14 | 0.312561274 | 0.955 | 0.896 | 2.76E-10 | 6 | 1.065848 |
| Lck | 2.94E-14 | 0.273271485 | 0.982 | 0.953 | 2.92E-10 | 6 | 1.03043 |
| Msrp1 | 3.05E-14 | 0.189650538 | 0.362 | 0.216 | 3.03E-10 | 6 | 1.675926 |
| Lrwd1 | 3.06E-14 | 0.107690631 | 0.259 | 0.129 | 3.04E-10 | 6 | 2.007752 |
| Efhd2 | 3.47E-14 | 0.24577153 | 0.42 | 0.213 | 3.45E-10 | 6 | 1.971831 |
| Cd3d | 3.59E-14 | 0.247532586 | 1 | 0.991 | 3.57E-10 | 6 | 1.009082 |
| Ebp | 3.72E-14 | 0.245697729 | 0.478 | 0.258 | 3.69E-10 | 6 | 1.852713 |

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|-----------|----------|-------------|-------|-------|----------|---|----------|
| Chmp5 | 3.90E-14 | 0.231860065 | 0.487 | 0.267 | 3.88E-10 | 6 | 1.82397 |
| Dgkz | 4.36E-14 | 0.300464204 | 0.411 | 0.22 | 4.33E-10 | 6 | 1.868182 |
| Timp2 | 4.93E-14 | 0.284603598 | 0.366 | 0.178 | 4.90E-10 | 6 | 2.05618 |
| Cd81 | 5.43E-14 | 0.305952767 | 0.339 | 0.172 | 5.40E-10 | 6 | 1.97093 |
| Lcp2 | 6.31E-14 | 0.328054891 | 0.545 | 0.309 | 6.27E-10 | 6 | 1.763754 |
| Tnfrsf13b | 6.34E-14 | 0.203818354 | 0.339 | 0.15 | 6.30E-10 | 6 | 2.26 |
| Glrx | 7.31E-14 | 0.319095928 | 0.379 | 0.176 | 7.26E-10 | 6 | 2.153409 |
| Lrpap1 | 7.90E-14 | 0.21975403 | 0.29 | 0.124 | 7.85E-10 | 6 | 2.33871 |
| Tmem126a | 7.92E-14 | 0.279020386 | 0.357 | 0.174 | 7.87E-10 | 6 | 2.051724 |
| Lat | 9.88E-14 | 0.301416899 | 0.96 | 0.925 | 9.82E-10 | 6 | 1.037838 |
| Ppp1r12a | 1.07E-13 | 0.283477407 | 0.607 | 0.372 | 1.06E-09 | 6 | 1.63172 |
| Ech1 | 1.10E-13 | 0.286015875 | 0.567 | 0.318 | 1.09E-09 | 6 | 1.783019 |
| Sys1 | 1.37E-13 | 0.166217397 | 0.647 | 0.413 | 1.37E-09 | 6 | 1.566586 |
| Dap | 1.52E-13 | 0.290927517 | 0.397 | 0.237 | 1.51E-09 | 6 | 1.675105 |
| Rtn3 | 1.54E-13 | 0.266965963 | 0.487 | 0.262 | 1.53E-09 | 6 | 1.858779 |
| Ddt | 2.57E-13 | 0.165005118 | 0.406 | 0.222 | 2.55E-09 | 6 | 1.828829 |
| Rab11a | 3.07E-13 | 0.262309754 | 0.491 | 0.259 | 3.05E-09 | 6 | 1.895753 |
| Nfatc1 | 3.16E-13 | 0.227836289 | 0.268 | 0.108 | 3.14E-09 | 6 | 2.481481 |
| Ccng1 | 3.51E-13 | 0.2528213 | 0.478 | 0.28 | 3.49E-09 | 6 | 1.707143 |
| Blmh | 3.64E-13 | 0.224955319 | 0.415 | 0.209 | 3.62E-09 | 6 | 1.985646 |
| St8sia4 | 3.89E-13 | 0.280497961 | 0.393 | 0.18 | 3.86E-09 | 6 | 2.183333 |
| Agfg1 | 4.12E-13 | 0.271611675 | 0.388 | 0.214 | 4.09E-09 | 6 | 1.813084 |
| Tmbim4 | 4.39E-13 | 0.242708075 | 0.344 | 0.151 | 4.36E-09 | 6 | 2.278146 |
| Sfn2 | 4.67E-13 | 0.314374272 | 0.96 | 0.819 | 4.64E-09 | 6 | 1.172161 |
| Dynll1 | 5.33E-13 | 0.307125988 | 0.897 | 0.826 | 5.29E-09 | 6 | 1.085956 |
| Rab37 | 6.02E-13 | 0.274040909 | 0.362 | 0.188 | 5.98E-09 | 6 | 1.925532 |
| Pold4 | 6.38E-13 | 0.265055733 | 0.496 | 0.288 | 6.34E-09 | 6 | 1.722222 |
| Cfap36 | 6.78E-13 | 0.225188945 | 0.29 | 0.134 | 6.74E-09 | 6 | 2.164179 |
| Msi2 | 7.30E-13 | 0.239368119 | 0.33 | 0.147 | 7.26E-09 | 6 | 2.244898 |
| Cnpy2 | 7.73E-13 | 0.186294496 | 0.397 | 0.205 | 7.68E-09 | 6 | 1.936585 |
| Comt | 9.78E-13 | 0.242556817 | 0.263 | 0.09 | 9.72E-09 | 6 | 2.922222 |
| Sat1 | 1.10E-12 | 0.292709795 | 0.696 | 0.488 | 1.09E-08 | 6 | 1.42623 |
| Gm2a | 1.19E-12 | 0.283191399 | 0.478 | 0.284 | 1.18E-08 | 6 | 1.683099 |
| H2-K1 | 1.27E-12 | 0.236885769 | 1 | 0.998 | 1.26E-08 | 6 | 1.002004 |
| Anxa5 | 1.65E-12 | 0.236976644 | 0.518 | 0.29 | 1.64E-08 | 6 | 1.786207 |
| Crnk1l1 | 2.07E-12 | 0.143512328 | 0.344 | 0.183 | 2.06E-08 | 6 | 1.879781 |
| Hspa5 | 2.29E-12 | 0.316165698 | 0.786 | 0.667 | 2.28E-08 | 6 | 1.178411 |
| Abhd8 | 2.35E-12 | 0.280112436 | 0.616 | 0.39 | 2.33E-08 | 6 | 1.579487 |
| Bloc1s2 | 2.45E-12 | 0.224154076 | 0.388 | 0.223 | 2.44E-08 | 6 | 1.73991 |
| Copb1 | 3.40E-12 | 0.227123889 | 0.545 | 0.327 | 3.38E-08 | 6 | 1.666667 |
| Ufc1 | 3.46E-12 | 0.245086506 | 0.531 | 0.311 | 3.44E-08 | 6 | 1.707395 |
| Trappc3 | 3.95E-12 | 0.136158304 | 0.384 | 0.238 | 3.93E-08 | 6 | 1.613445 |
| Scd2 | 4.47E-12 | 0.227845532 | 0.254 | 0.088 | 4.44E-08 | 6 | 2.886364 |
| Psmd8 | 4.65E-12 | 0.271367886 | 0.714 | 0.467 | 4.63E-08 | 6 | 1.528908 |
| Htatip2 | 5.23E-12 | 0.220023813 | 0.308 | 0.138 | 5.19E-08 | 6 | 2.231884 |
| Lsp1 | 5.38E-12 | 0.25651651 | 0.955 | 0.85 | 5.34E-08 | 6 | 1.123529 |
| Bag6 | 5.95E-12 | 0.206718421 | 0.304 | 0.132 | 5.91E-08 | 6 | 2.30303 |

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|---------------|----------|-------------|-------------|-------|----------|----------|----------|----------|
| Dynlrb1 | 6.79E-12 | 0.26849212 | 0.679 | 0.442 | 6.75E-08 | 6 | 1.536199 | |
| mt-Co1 | 7.35E-12 | 0.180456262 | 1 | 1 | 7.30E-08 | 6 | 1 | |
| Golga7 | 7.40E-12 | 0.174503395 | 0.402 | 0.232 | 7.36E-08 | 6 | 1.732759 | |
| Itpr2 | 8.15E-12 | 0.271144069 | 0.571 | 0.373 | 8.10E-08 | 6 | 1.530831 | |
| Lax1 | 8.79E-12 | 0.218209889 | 0.272 | 0.116 | 8.74E-08 | 6 | 2.344828 | |
| H2-D1 | 9.27E-12 | 0.150645249 | 1 | 1 | 9.21E-08 | 6 | 1 | |
| Samhd1 | 9.30E-12 | 0.344993105 | 0.741 | 0.557 | 9.24E-08 | 6 | 1.330341 | |
| Xlr4c | 1.00E-11 | 0.220814118 | 0.371 | 0.199 | 9.98E-08 | 6 | 1.864322 | |
| Etfb | 1.01E-11 | 0.232238396 | 0.42 | 0.295 | 1.01E-07 | 6 | 1.423729 | |
| Rabgap1l | 1.03E-11 | 0.195707563 | 0.429 | 0.234 | 1.03E-07 | 6 | 1.833333 | |
| Cox6b1 | 1.06E-11 | 0.252290717 | 0.924 | 0.873 | 1.05E-07 | 6 | 1.058419 | |
| Ybx1 | 1.08E-11 | 0.263977942 | 0.964 | 0.915 | 1.08E-07 | 6 | 1.053552 | |
| Ahnak | 1.34E-11 | 0.318063477 | 0.375 | 0.212 | 1.34E-07 | 6 | 1.768868 | |
| Sar1b | 1.43E-11 | 0.20633189 | 0.433 | 0.253 | 1.42E-07 | 6 | 1.711462 | |
| Derl2 | 1.50E-11 | 0.174363023 | 0.362 | 0.22 | 1.49E-07 | 6 | 1.645455 | |
| Mapk1 | 1.62E-11 | 0.18160031 | 0.46 | 0.308 | 1.61E-07 | 6 | 1.493506 | |
| Uqcrh | 1.70E-11 | 0.215634001 | 1 | 0.967 | 1.69E-07 | 6 | 1.034126 | |
| Upf3a | 1.77E-11 | 0.15116767 | 0.281 | 0.129 | 1.76E-07 | 6 | 2.178295 | |
| Actr10 | 1.90E-11 | 0.209662155 | 0.469 | 0.291 | 1.89E-07 | 6 | 1.611684 | |
| Copz1 | 1.96E-11 | 0.081635008 | 0.433 | 0.291 | 1.95E-07 | 6 | 1.487973 | |
| Mrpl40 | 2.03E-11 | 0.075577951 | 0.379 | 0.253 | 2.02E-07 | 6 | 1.498024 | |
| Pfn1 | 2.11E-11 | 0.167750856 | 1 | 1 | 2.09E-07 | 6 | 1 | |
| Ppt1 | 2.13E-11 | 0.233697434 | 0.353 | 0.164 | 2.11E-07 | 6 | 2.152439 | |
| Chic2 | 2.26E-11 | 0.248105159 | 0.585 | 0.403 | 2.24E-07 | 6 | 1.451613 | |
| Fnta | 2.43E-11 | 0.220190606 | 0.46 | 0.26 | 2.42E-07 | 6 | 1.769231 | |
| Ube2b | 2.50E-11 | 0.226085266 | 0.786 | 0.598 | 2.48E-07 | 6 | 1.314381 | |
| Prelid1 | 2.69E-11 | 0.289989676 | 0.754 | 0.559 | 2.68E-07 | 6 | 1.348837 | |
| Cd6 | 2.88E-11 | 0.301948943 | 0.638 | 0.43 | 2.86E-07 | 6 | 1.483721 | |
| Smdt1 | 2.92E-11 | 0.285510256 | 0.786 | 0.594 | 2.90E-07 | 6 | 1.323232 | |
| Trappc1 | 2.94E-11 | 0.212249293 | 0.406 | 0.244 | 2.92E-07 | 6 | 1.663934 | |
| Esd | 2.96E-11 | 0.293868473 | 0.656 | 0.444 | 2.94E-07 | 6 | 1.477477 | |
| Ntan1 | 3.65E-11 | 0.165930196 | 0.482 | 0.299 | 3.63E-07 | 6 | 1.61204 | |
| Ramp1 | 3.85E-11 | 0.23550597 | 0.674 | 0.6 | 3.83E-07 | 6 | 1.123333 | |
| | Sep-07 | 4.23E-11 | 0.280945504 | 0.862 | 0.713 | 4.21E-07 | 6 | 1.208976 |
| Tbcb | 4.35E-11 | 0.193797537 | 0.326 | 0.156 | 4.32E-07 | 6 | 2.089744 | |
| Fuca1 | 4.55E-11 | 0.239664328 | 0.424 | 0.223 | 4.52E-07 | 6 | 1.901345 | |
| Med8 | 4.58E-11 | 0.210886135 | 0.429 | 0.241 | 4.56E-07 | 6 | 1.780083 | |
| Mospd3 | 4.90E-11 | 0.16671458 | 0.366 | 0.193 | 4.87E-07 | 6 | 1.896373 | |
| Psm6 | 4.91E-11 | 0.196203976 | 0.491 | 0.317 | 4.88E-07 | 6 | 1.548896 | |
| Clta | 4.96E-11 | 0.251518135 | 0.897 | 0.748 | 4.94E-07 | 6 | 1.199198 | |
| Ddx50 | 5.03E-11 | 0.01589059 | 0.281 | 0.213 | 5.00E-07 | 6 | 1.319249 | |
| Akna | 5.26E-11 | 0.123425443 | 0.339 | 0.189 | 5.23E-07 | 6 | 1.793651 | |
| Atp6v0d1 | 5.40E-11 | 0.142868284 | 0.304 | 0.165 | 5.36E-07 | 6 | 1.842424 | |
| Arpc1b | 6.12E-11 | 0.24366132 | 0.982 | 0.957 | 6.08E-07 | 6 | 1.026123 | |
| Myl6 | 6.36E-11 | 0.229684512 | 0.996 | 0.991 | 6.32E-07 | 6 | 1.005045 | |
| 2700060E02Rik | 7.73E-11 | 0.245988937 | 0.884 | 0.702 | 7.68E-07 | 6 | 1.259259 | |
| Gabarapl2 | 8.69E-11 | 0.248254641 | 0.786 | 0.615 | 8.64E-07 | 6 | 1.278049 | |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Fis1 | 9.15E-11 | 0.269707632 | 0.853 | 0.707 | 9.09E-07 | 6 | 1.206506 |
| Qsox1 | 9.52E-11 | 0.19898694 | 0.254 | 0.102 | 9.46E-07 | 6 | 2.490196 |
| Ldb1 | 9.77E-11 | 0.144774202 | 0.362 | 0.206 | 9.72E-07 | 6 | 1.757282 |
| Hmgn2 | 1.00E-10 | 0.246335737 | 0.509 | 0.396 | 9.95E-07 | 6 | 1.285354 |
| Fam162a | 1.03E-10 | 0.174076757 | 0.446 | 0.331 | 1.02E-06 | 6 | 1.347432 |
| Mad2l1bp | 1.05E-10 | 0.072990432 | 0.259 | 0.151 | 1.05E-06 | 6 | 1.715232 |
| Elof1 | 1.10E-10 | 0.171207469 | 0.357 | 0.212 | 1.09E-06 | 6 | 1.683962 |
| Gna13 | 1.10E-10 | 0.174186306 | 0.353 | 0.201 | 1.09E-06 | 6 | 1.756219 |
| Uri1 | 1.10E-10 | 0.157695234 | 0.487 | 0.3 | 1.10E-06 | 6 | 1.623333 |
| Sesn3 | 1.20E-10 | 0.255220982 | 0.536 | 0.34 | 1.19E-06 | 6 | 1.576471 |
| Apool | 1.20E-10 | 0.160450697 | 0.254 | 0.118 | 1.20E-06 | 6 | 2.152542 |
| Zfp36l2 | 1.25E-10 | 0.21319952 | 0.549 | 0.404 | 1.25E-06 | 6 | 1.358911 |
| Abrac1 | 1.34E-10 | 0.256861417 | 0.911 | 0.787 | 1.33E-06 | 6 | 1.15756 |
| Top1 | 1.49E-10 | 0.27707377 | 0.665 | 0.435 | 1.48E-06 | 6 | 1.528736 |
| Ppp1r16b | 1.65E-10 | 0.253476277 | 0.348 | 0.169 | 1.64E-06 | 6 | 2.059172 |
| Ccdc47 | 1.66E-10 | 0.224569724 | 0.496 | 0.295 | 1.65E-06 | 6 | 1.681356 |
| Dnajc14 | 1.67E-10 | 0.160847948 | 0.304 | 0.153 | 1.66E-06 | 6 | 1.986928 |
| Vamp8 | 1.68E-10 | 0.255620323 | 0.701 | 0.481 | 1.67E-06 | 6 | 1.45738 |
| Apoa1bp | 1.82E-10 | 0.181829774 | 0.304 | 0.161 | 1.81E-06 | 6 | 1.888199 |
| Galk2 | 1.83E-10 | 0.132111416 | 0.286 | 0.144 | 1.81E-06 | 6 | 1.986111 |
| Clptm1 | 2.06E-10 | 0.085399627 | 0.268 | 0.156 | 2.05E-06 | 6 | 1.717949 |
| Lsm10 | 2.17E-10 | 0.094991788 | 0.295 | 0.167 | 2.16E-06 | 6 | 1.766467 |
| Oaz2 | 2.60E-10 | 0.200470598 | 0.272 | 0.12 | 2.59E-06 | 6 | 2.266667 |
| Mrps21 | 2.72E-10 | 0.241068023 | 0.696 | 0.54 | 2.70E-06 | 6 | 1.288889 |
| Adprh | 2.73E-10 | 0.156024 | 0.371 | 0.201 | 2.72E-06 | 6 | 1.845771 |
| Snx3 | 2.73E-10 | 0.211215781 | 0.696 | 0.476 | 2.72E-06 | 6 | 1.462185 |
| Isyna1 | 2.85E-10 | 0.113917291 | 0.254 | 0.182 | 2.83E-06 | 6 | 1.395604 |
| Gpi1 | 2.89E-10 | 0.269884198 | 0.799 | 0.622 | 2.87E-06 | 6 | 1.284566 |
| Yipf1 | 2.92E-10 | 0.151504621 | 0.326 | 0.179 | 2.91E-06 | 6 | 1.821229 |
| Rab8b | 3.10E-10 | 0.246959429 | 0.308 | 0.144 | 3.08E-06 | 6 | 2.138889 |
| Zfp207 | 3.12E-10 | 0.232168826 | 0.58 | 0.376 | 3.10E-06 | 6 | 1.542553 |
| Ostc | 3.21E-10 | 0.246275331 | 0.701 | 0.541 | 3.19E-06 | 6 | 1.295749 |
| Acadvl | 3.30E-10 | 0.143043153 | 0.362 | 0.207 | 3.28E-06 | 6 | 1.748792 |
| Gm8369 | 3.32E-10 | 0.283669334 | 0.688 | 0.56 | 3.30E-06 | 6 | 1.228571 |
| Cib1 | 3.35E-10 | 0.181040764 | 0.509 | 0.335 | 3.33E-06 | 6 | 1.519403 |
| Mea1 | 3.36E-10 | 0.194515548 | 0.415 | 0.226 | 3.34E-06 | 6 | 1.836283 |
| Ptprc | 3.47E-10 | 0.248573968 | 0.987 | 0.969 | 3.45E-06 | 6 | 1.018576 |
| Traf1 | 3.51E-10 | 0.267855921 | 0.513 | 0.293 | 3.48E-06 | 6 | 1.750853 |
| Cstb | 3.51E-10 | 0.281659638 | 0.527 | 0.341 | 3.49E-06 | 6 | 1.545455 |
| Csnk2b | 3.59E-10 | 0.206953344 | 0.621 | 0.401 | 3.57E-06 | 6 | 1.548628 |
| Arpc1a | 3.63E-10 | 0.197155186 | 0.411 | 0.229 | 3.61E-06 | 6 | 1.79476 |
| Txndc9 | 3.75E-10 | 0.190023747 | 0.589 | 0.387 | 3.72E-06 | 6 | 1.521964 |
| Ndufs8 | 3.82E-10 | 0.243780552 | 0.585 | 0.368 | 3.80E-06 | 6 | 1.589674 |
| Cox4i1 | 4.00E-10 | 0.194248488 | 0.991 | 0.981 | 3.98E-06 | 6 | 1.010194 |
| Arhgap25 | 4.05E-10 | 0.224247179 | 0.379 | 0.22 | 4.02E-06 | 6 | 1.722727 |
| Selk | 4.18E-10 | 0.261961819 | 0.754 | 0.58 | 4.15E-06 | 6 | 1.3 |
| Pdia4 | 4.19E-10 | 0.168651473 | 0.451 | 0.293 | 4.17E-06 | 6 | 1.539249 |

| | | | | | | | |
|---------------|----------|-------------|-------|-------|----------|---|----------|
| Blvra | 4.67E-10 | 0.102049412 | 0.286 | 0.162 | 4.64E-06 | 6 | 1.765432 |
| Hmgbl1 | 4.81E-10 | 0.246663662 | 0.955 | 0.907 | 4.78E-06 | 6 | 1.052922 |
| Dazap2 | 5.27E-10 | 0.085093072 | 0.562 | 0.397 | 5.24E-06 | 6 | 1.415617 |
| Araf | 5.33E-10 | 0.127855211 | 0.357 | 0.228 | 5.30E-06 | 6 | 1.565789 |
| Atxn10 | 5.50E-10 | 0.115317817 | 0.397 | 0.248 | 5.47E-06 | 6 | 1.600806 |
| Dync1i2 | 5.56E-10 | 0.151639803 | 0.473 | 0.312 | 5.53E-06 | 6 | 1.516026 |
| Rsu1 | 5.98E-10 | 0.277850384 | 0.518 | 0.305 | 5.95E-06 | 6 | 1.698361 |
| Pla2g16 | 6.01E-10 | 0.219742635 | 0.652 | 0.435 | 5.97E-06 | 6 | 1.498851 |
| Pfdn1 | 6.19E-10 | 0.15182174 | 0.478 | 0.309 | 6.15E-06 | 6 | 1.546926 |
| Cox6c | 6.71E-10 | 0.228664997 | 0.969 | 0.926 | 6.67E-06 | 6 | 1.046436 |
| Tgfb1 | 6.80E-10 | 0.257469878 | 0.554 | 0.399 | 6.76E-06 | 6 | 1.388471 |
| Rnpep | 6.84E-10 | 0.233926941 | 0.272 | 0.119 | 6.80E-06 | 6 | 2.285714 |
| Pdia3 | 7.09E-10 | 0.237679123 | 0.893 | 0.731 | 7.05E-06 | 6 | 1.221614 |
| Cep250 | 7.38E-10 | 0.195441971 | 0.263 | 0.117 | 7.33E-06 | 6 | 2.247863 |
| Phyh | 7.59E-10 | 0.205436893 | 0.455 | 0.26 | 7.54E-06 | 6 | 1.75 |
| Diaph1 | 7.62E-10 | 0.16388138 | 0.536 | 0.388 | 7.57E-06 | 6 | 1.381443 |
| Ap2m1 | 8.00E-10 | 0.256772987 | 0.643 | 0.434 | 7.95E-06 | 6 | 1.481567 |
| Coro1a | 9.19E-10 | 0.196442022 | 1 | 0.998 | 9.13E-06 | 6 | 1.002004 |
| Mkrn1 | 9.33E-10 | 0.196663488 | 0.594 | 0.409 | 9.27E-06 | 6 | 1.452323 |
| Capzb | 9.59E-10 | 0.252928267 | 0.853 | 0.726 | 9.53E-06 | 6 | 1.174931 |
| Adam10 | 1.00E-09 | 0.181670054 | 0.281 | 0.171 | 9.96E-06 | 6 | 1.643275 |
| Surf4 | 1.01E-09 | 0.132944005 | 0.304 | 0.163 | 1.00E-05 | 6 | 1.865031 |
| Lipa | 1.03E-09 | 0.18114182 | 0.353 | 0.21 | 1.02E-05 | 6 | 1.680952 |
| Arhgef3 | 1.12E-09 | 0.199489058 | 0.321 | 0.175 | 1.12E-05 | 6 | 1.834286 |
| Tmem256 | 1.16E-09 | 0.228988062 | 0.558 | 0.392 | 1.15E-05 | 6 | 1.423469 |
| Cd2 | 1.27E-09 | 0.257028958 | 0.924 | 0.863 | 1.27E-05 | 6 | 1.070684 |
| Fam134c | 1.43E-09 | 0.119574015 | 0.286 | 0.186 | 1.42E-05 | 6 | 1.537634 |
| Asnsd1 | 1.45E-09 | 0.111572045 | 0.335 | 0.209 | 1.44E-05 | 6 | 1.602871 |
| Bcl10 | 1.46E-09 | 0.176148239 | 0.518 | 0.32 | 1.45E-05 | 6 | 1.61875 |
| Hars | 1.46E-09 | 0.13395151 | 0.308 | 0.166 | 1.45E-05 | 6 | 1.855422 |
| Timm17b | 1.50E-09 | 0.194300187 | 0.397 | 0.231 | 1.49E-05 | 6 | 1.718615 |
| Cd2bp2 | 1.59E-09 | 0.076780494 | 0.272 | 0.164 | 1.58E-05 | 6 | 1.658537 |
| 1600014C10Rik | 1.63E-09 | 0.233816994 | 0.371 | 0.195 | 1.62E-05 | 6 | 1.902564 |
| Pstpip1 | 1.69E-09 | 0.16552603 | 0.446 | 0.267 | 1.68E-05 | 6 | 1.670412 |
| Wipf1 | 1.70E-09 | 0.083814345 | 0.402 | 0.264 | 1.69E-05 | 6 | 1.522727 |
| Gtf2h5 | 1.72E-09 | 0.154621061 | 0.558 | 0.384 | 1.71E-05 | 6 | 1.453125 |
| Eci2 | 1.77E-09 | 0.228906568 | 0.371 | 0.193 | 1.76E-05 | 6 | 1.92228 |
| Slc35b3 | 1.86E-09 | 0.102099352 | 0.272 | 0.152 | 1.85E-05 | 6 | 1.789474 |
| Cops2 | 1.99E-09 | 0.174271007 | 0.299 | 0.143 | 1.98E-05 | 6 | 2.090909 |
| Rab1a | 2.01E-09 | 0.121937409 | 0.304 | 0.19 | 2.00E-05 | 6 | 1.6 |
| Dpf2 | 2.04E-09 | 0.165121442 | 0.304 | 0.173 | 2.03E-05 | 6 | 1.757225 |
| Sdf2l1 | 2.09E-09 | 0.187905543 | 0.317 | 0.167 | 2.08E-05 | 6 | 1.898204 |
| GImp | 2.12E-09 | 0.206868679 | 0.487 | 0.286 | 2.10E-05 | 6 | 1.702797 |
| Prpf38a | 2.43E-09 | 0.087833737 | 0.312 | 0.195 | 2.42E-05 | 6 | 1.6 |
| Ssr1 | 2.48E-09 | 0.195009918 | 0.366 | 0.232 | 2.47E-05 | 6 | 1.577586 |
| Oxr1 | 2.51E-09 | 0.049322018 | 0.272 | 0.175 | 2.50E-05 | 6 | 1.554286 |
| Cdk17 | 2.58E-09 | 0.183154415 | 0.268 | 0.121 | 2.56E-05 | 6 | 2.214876 |

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|---------|----------|-------------|-------|-------|-------------|---|----------|
| Cd5 | 2.75E-09 | 0.302417806 | 0.567 | 0.398 | 2.73E-05 | 6 | 1.424623 |
| Smim20 | 2.85E-09 | 0.185411281 | 0.415 | 0.257 | 2.83E-05 | 6 | 1.614786 |
| Asna1 | 3.02E-09 | 0.123559483 | 0.312 | 0.197 | 3.00E-05 | 6 | 1.583756 |
| Gnai2 | 3.27E-09 | 0.257898056 | 0.839 | 0.698 | 3.25E-05 | 6 | 1.202006 |
| Dnajc3 | 3.52E-09 | 0.185264973 | 0.558 | 0.397 | 3.50E-05 | 6 | 1.405542 |
| Shkbp1 | 3.79E-09 | 0.179218892 | 0.281 | 0.129 | 3.77E-05 | 6 | 2.178295 |
| Rhog | 3.94E-09 | 0.182899627 | 0.451 | 0.294 | 3.91E-05 | 6 | 1.534014 |
| Gm10093 | 3.96E-09 | 0.244278521 | 0.504 | 0.318 | 3.94E-05 | 6 | 1.584906 |
| Bzw2 | 3.97E-09 | 0.18563434 | 0.558 | 0.419 | 3.94E-05 | 6 | 1.331742 |
| Tox4 | 3.97E-09 | 0.039220442 | 0.33 | 0.228 | 3.95E-05 | 6 | 1.447368 |
| Brd8 | 4.01E-09 | 0.105762809 | 0.348 | 0.238 | 3.98E-05 | 6 | 1.462185 |
| Pomp | 4.01E-09 | 0.239737698 | 0.839 | 0.698 | 3.99E-05 | 6 | 1.202006 |
| Ubl7 | 4.16E-09 | 0.148918936 | 0.326 | 0.213 | 4.14E-05 | 6 | 1.530516 |
| Il16 | 4.26E-09 | 0.2596414 | 0.741 | 0.566 | 4.23E-05 | 6 | 1.309187 |
| Dera | 4.84E-09 | 0.238439367 | 0.357 | 0.189 | 4.81E-05 | 6 | 1.888889 |
| Ei24 | 4.85E-09 | 0.159434988 | 0.277 | 0.14 | 4.82E-05 | 6 | 1.978571 |
| Ubr2 | 4.89E-09 | 0.046526155 | 0.254 | 0.161 | 4.86E-05 | 6 | 1.57764 |
| Lypla1 | 5.03E-09 | 0.11457455 | 0.339 | 0.213 | 5.00E-05 | 6 | 1.591549 |
| Ccng2 | 5.11E-09 | 0.22427477 | 0.268 | 0.121 | 5.08E-05 | 6 | 2.214876 |
| Tpgs1 | 5.16E-09 | 0.07824937 | 0.304 | 0.19 | 5.13E-05 | 6 | 1.6 |
| Sh2d2a | 5.23E-09 | 0.238054924 | 0.433 | 0.251 | 5.20E-05 | 6 | 1.7251 |
| Pts | 5.48E-09 | 0.129763247 | 0.312 | 0.175 | 5.45E-05 | 6 | 1.782857 |
| Sigirr | 5.48E-09 | 0.121619144 | 0.33 | 0.204 | 5.45E-05 | 6 | 1.617647 |
| Vps36 | 5.90E-09 | 0.177630961 | 0.393 | 0.265 | 5.87E-05 | 6 | 1.483019 |
| Chd3 | 6.16E-09 | 0.254964123 | 0.848 | 0.71 | 6.12E-05 | 6 | 1.194366 |
| Rassf2 | 6.17E-09 | 0.180548146 | 0.415 | 0.262 | 6.13E-05 | 6 | 1.583969 |
| Ndufb6 | 6.37E-09 | 0.138109113 | 0.594 | 0.422 | 6.33E-05 | 6 | 1.407583 |
| Lamtor4 | 6.98E-09 | 0.231380588 | 0.513 | 0.328 | 6.94E-05 | 6 | 1.564024 |
| Baz2a | 7.26E-09 | 0.179288857 | 0.348 | 0.249 | 7.22E-05 | 6 | 1.39759 |
| Adss | 7.62E-09 | 0.180720606 | 0.509 | 0.347 | 7.57E-05 | 6 | 1.466859 |
| Hdac1 | 7.69E-09 | 0.252784661 | 0.612 | 0.419 | 7.65E-05 | 6 | 1.460621 |
| Ube2n | 8.06E-09 | 0.219634746 | 0.67 | 0.465 | 8.01E-05 | 6 | 1.44086 |
| Gskip | 8.16E-09 | 0.104748043 | 0.272 | 0.151 | 8.11E-05 | 6 | 1.801325 |
| Ube2j1 | 8.29E-09 | 0.122950967 | 0.29 | 0.17 | 8.24E-05 | 6 | 1.705882 |
| Acbd6 | 8.37E-09 | 0.095885834 | 0.433 | 0.303 | 8.32E-05 | 6 | 1.429043 |
| Rab14 | 8.55E-09 | 0.086949044 | 0.621 | 0.46 | 8.50E-05 | 6 | 1.35 |
| Arhgef6 | 9.01E-09 | 0.206578576 | 0.451 | 0.277 | 8.96E-05 | 6 | 1.628159 |
| Adk | 9.14E-09 | 0.178354118 | 0.295 | 0.191 | 9.09E-05 | 6 | 1.544503 |
| Faim | 9.43E-09 | 0.048351423 | 0.393 | 0.289 | 9.37E-05 | 6 | 1.359862 |
| Chmp2a | 9.57E-09 | 0.230991711 | 0.759 | 0.557 | 9.51E-05 | 6 | 1.362657 |
| Psm14 | 9.57E-09 | 0.180405206 | 0.522 | 0.343 | 9.51E-05 | 6 | 1.521866 |
| Cst7 | 9.59E-09 | 0.241949763 | 0.321 | 0.181 | 9.54E-05 | 6 | 1.773481 |
| Ccni | 1.00E-08 | 0.21007495 | 0.42 | 0.248 | 9.98E-05 | 6 | 1.693548 |
| Scand1 | 1.02E-08 | 0.243107973 | 0.875 | 0.768 | 0.00010162 | 6 | 1.139323 |
| Aebp2 | 1.06E-08 | 0.143009383 | 0.304 | 0.162 | 0.000104945 | 6 | 1.876543 |
| Psm13 | 1.06E-08 | 0.203832241 | 0.518 | 0.329 | 0.000105044 | 6 | 1.574468 |
| Thoc7 | 1.09E-08 | 0.135673812 | 0.54 | 0.377 | 0.000108665 | 6 | 1.432361 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Il2rb | 1.13E-08 | 0.236334739 | 0.312 | 0.146 | 0.000112205 | 6 | 2.136986 |
| Dbi | 1.13E-08 | 0.227451629 | 0.585 | 0.391 | 0.000112232 | 6 | 1.496164 |
| Ass1 | 1.15E-08 | 0.297933295 | 0.513 | 0.385 | 0.000114798 | 6 | 1.332468 |
| Pdlim2 | 1.16E-08 | 0.114234063 | 0.415 | 0.271 | 0.000114952 | 6 | 1.531365 |
| Eif2a | 1.16E-08 | 0.0855767 | 0.299 | 0.195 | 0.000115111 | 6 | 1.533333 |
| Lyp1a2 | 1.18E-08 | 0.121821494 | 0.379 | 0.235 | 0.000117036 | 6 | 1.612766 |
| Ing4 | 1.24E-08 | 0.165031287 | 0.317 | 0.169 | 0.000123334 | 6 | 1.87574 |
| 1110008P14Rik | 1.24E-08 | 0.193923742 | 0.397 | 0.225 | 0.000123445 | 6 | 1.764444 |
| Traf2 | 1.26E-08 | 0.203549451 | 0.272 | 0.123 | 0.000125284 | 6 | 2.211382 |
| Thy1 | 1.29E-08 | 0.261365109 | 0.884 | 0.74 | 0.000128282 | 6 | 1.194595 |
| Mpc1 | 1.33E-08 | 0.208534762 | 0.594 | 0.414 | 0.000131902 | 6 | 1.434783 |
| Eif3f | 1.33E-08 | 0.180958923 | 0.987 | 0.977 | 0.000132057 | 6 | 1.010235 |
| Pcbd2 | 1.33E-08 | 0.04858108 | 0.366 | 0.26 | 0.000132612 | 6 | 1.407692 |
| Ola1 | 1.34E-08 | 0.148301581 | 0.433 | 0.266 | 0.000132923 | 6 | 1.62782 |
| Atp5l | 1.37E-08 | 0.182880458 | 0.991 | 0.956 | 0.000136118 | 6 | 1.036611 |
| Leprot | 1.42E-08 | 0.183031715 | 0.335 | 0.179 | 0.000141144 | 6 | 1.871508 |
| Ccndbp1 | 1.48E-08 | 0.127732866 | 0.451 | 0.315 | 0.000147002 | 6 | 1.431746 |
| Psmb9 | 1.50E-08 | 0.252535598 | 0.897 | 0.794 | 0.000148664 | 6 | 1.129723 |
| Inpp4b | 1.51E-08 | 0.271056135 | 0.625 | 0.457 | 0.000149851 | 6 | 1.367615 |
| Tsc22d4 | 1.51E-08 | 0.208566687 | 0.79 | 0.621 | 0.000149999 | 6 | 1.272142 |
| Ndufa13 | 1.61E-08 | 0.229576369 | 0.879 | 0.779 | 0.000160389 | 6 | 1.12837 |
| Brd3 | 1.64E-08 | 0.119035422 | 0.277 | 0.152 | 0.000163197 | 6 | 1.822368 |
| Mrpl27 | 1.66E-08 | 0.072849564 | 0.317 | 0.203 | 0.000165163 | 6 | 1.561576 |
| Aprt | 1.79E-08 | 0.196341463 | 0.643 | 0.506 | 0.000177657 | 6 | 1.270751 |
| Dennd1c | 1.89E-08 | 0.14678214 | 0.353 | 0.212 | 0.000188214 | 6 | 1.665094 |
| Rtfdc1 | 1.95E-08 | 0.171684248 | 0.487 | 0.311 | 0.000193543 | 6 | 1.565916 |
| Slc38a1 | 2.02E-08 | 0.160888512 | 0.335 | 0.205 | 0.000201258 | 6 | 1.634146 |
| Mrpl14 | 2.04E-08 | 0.155796172 | 0.473 | 0.321 | 0.000202337 | 6 | 1.47352 |
| Atp2b1 | 2.06E-08 | 0.218707756 | 0.406 | 0.284 | 0.000205003 | 6 | 1.429577 |
| Snrk | 2.09E-08 | 0.094580497 | 0.295 | 0.19 | 0.000207482 | 6 | 1.552632 |
| Atp6v0b | 2.16E-08 | 0.104302896 | 0.509 | 0.351 | 0.000214569 | 6 | 1.450142 |
| Alkbh5 | 2.21E-08 | 0.187653195 | 0.362 | 0.201 | 0.000220025 | 6 | 1.800995 |
| Laptm5 | 2.21E-08 | 0.22364808 | 0.969 | 0.9 | 0.000220117 | 6 | 1.076667 |
| Bckdk | 2.23E-08 | 0.125788506 | 0.286 | 0.164 | 0.000221307 | 6 | 1.743902 |
| Ten1 | 2.24E-08 | 0.112601868 | 0.424 | 0.281 | 0.000222527 | 6 | 1.508897 |
| Alg5 | 2.30E-08 | 0.096870043 | 0.375 | 0.255 | 0.000228916 | 6 | 1.470588 |
| Acads | 2.33E-08 | 0.137846548 | 0.263 | 0.136 | 0.000231194 | 6 | 1.933824 |
| Ldhb | 2.33E-08 | 0.124836655 | 0.263 | 0.165 | 0.000231799 | 6 | 1.593939 |
| Chtop | 2.35E-08 | 0.054747006 | 0.371 | 0.259 | 0.000233906 | 6 | 1.432432 |
| Thap7 | 2.40E-08 | 0.033425441 | 0.268 | 0.185 | 0.000238957 | 6 | 1.448649 |
| Micu2 | 2.51E-08 | 0.165439288 | 0.272 | 0.135 | 0.000249846 | 6 | 2.014815 |
| Fam134b | 2.53E-08 | 0.217475802 | 0.438 | 0.27 | 0.000251288 | 6 | 1.622222 |
| Kdm5a | 2.56E-08 | 0.087595643 | 0.464 | 0.349 | 0.00025443 | 6 | 1.329513 |
| St6gal1 | 2.58E-08 | 0.20992342 | 0.263 | 0.133 | 0.00025609 | 6 | 1.977444 |
| Vps72 | 2.76E-08 | 0.158801529 | 0.308 | 0.177 | 0.000274811 | 6 | 1.740113 |
| Cox20 | 2.83E-08 | 0.188116221 | 0.554 | 0.372 | 0.000281793 | 6 | 1.489247 |
| Becn1 | 2.87E-08 | 0.05059401 | 0.344 | 0.239 | 0.000285155 | 6 | 1.439331 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| 0610007P14Rik | 2.88E-08 | 0.080386747 | 0.406 | 0.278 | 0.000286352 | 6 | 1.460432 |
| Nrip1 | 2.92E-08 | 0.193774548 | 0.379 | 0.25 | 0.000290686 | 6 | 1.516 |
| Lamtor1 | 2.96E-08 | 0.118143103 | 0.527 | 0.369 | 0.000294319 | 6 | 1.428184 |
| Ngfrap1 | 3.02E-08 | 0.199632399 | 0.424 | 0.247 | 0.000299776 | 6 | 1.716599 |
| Dynll2 | 3.03E-08 | 0.178730981 | 0.348 | 0.207 | 0.000301443 | 6 | 1.681159 |
| Elavl1 | 3.04E-08 | 0.147686894 | 0.509 | 0.352 | 0.000302009 | 6 | 1.446023 |
| Arpc4 | 3.04E-08 | 0.246885217 | 0.79 | 0.649 | 0.000302519 | 6 | 1.217257 |
| Ssr2 | 3.15E-08 | 0.119389886 | 0.504 | 0.372 | 0.000312813 | 6 | 1.354839 |
| Hmox2 | 3.26E-08 | 0.07830851 | 0.397 | 0.283 | 0.00032454 | 6 | 1.402827 |
| Tmem192 | 3.35E-08 | 0.117900221 | 0.344 | 0.21 | 0.000332674 | 6 | 1.638095 |
| Faf2 | 3.39E-08 | 0.097973939 | 0.272 | 0.161 | 0.000336589 | 6 | 1.689441 |
| Itpkb | 3.48E-08 | 0.16017304 | 0.429 | 0.315 | 0.000345996 | 6 | 1.361905 |
| Ppp2r1a | 3.53E-08 | 0.21552524 | 0.353 | 0.199 | 0.000350702 | 6 | 1.773869 |
| Snrnp70 | 3.62E-08 | 0.130070277 | 0.451 | 0.337 | 0.00035979 | 6 | 1.338279 |
| Tox | 3.62E-08 | 0.249816811 | 0.388 | 0.206 | 0.000359814 | 6 | 1.883495 |
| Psph | 3.62E-08 | 0.047472736 | 0.312 | 0.225 | 0.000360009 | 6 | 1.386667 |
| Mcur1 | 3.76E-08 | 0.19125375 | 0.317 | 0.174 | 0.000374078 | 6 | 1.821839 |
| Atox1 | 3.78E-08 | 0.222545076 | 0.759 | 0.581 | 0.000376086 | 6 | 1.306368 |
| Spcs2 | 3.82E-08 | 0.217024821 | 0.884 | 0.754 | 0.000379698 | 6 | 1.172414 |
| Hmg20b | 3.87E-08 | 0.203269869 | 0.357 | 0.187 | 0.0003847 | 6 | 1.909091 |
| Ppm1m | 3.96E-08 | 0.100031467 | 0.312 | 0.189 | 0.000393718 | 6 | 1.650794 |
| Oaz1 | 3.97E-08 | 0.169989749 | 1 | 0.997 | 0.000394206 | 6 | 1.003009 |
| Atp5f1 | 4.18E-08 | 0.224052495 | 0.893 | 0.81 | 0.000415256 | 6 | 1.102469 |
| Eva1b | 4.20E-08 | 0.258181992 | 0.406 | 0.222 | 0.000417956 | 6 | 1.828829 |
| Sumo1 | 4.37E-08 | 0.216376864 | 0.83 | 0.678 | 0.000433949 | 6 | 1.224189 |
| Hectd1 | 4.40E-08 | 0.196857959 | 0.504 | 0.359 | 0.000437478 | 6 | 1.4039 |
| Hsd17b10 | 4.51E-08 | 0.11216047 | 0.527 | 0.39 | 0.000448697 | 6 | 1.351282 |
| Prkch | 4.71E-08 | 0.030458767 | 0.371 | 0.282 | 0.000468333 | 6 | 1.315603 |
| Tes | 4.92E-08 | 0.216343807 | 0.487 | 0.306 | 0.000488737 | 6 | 1.591503 |
| Tial1 | 4.92E-08 | 0.134558627 | 0.317 | 0.184 | 0.000489536 | 6 | 1.722826 |
| Hes6 | 5.06E-08 | 0.125225949 | 0.308 | 0.199 | 0.000502895 | 6 | 1.547739 |
| Hbp1 | 5.06E-08 | 0.16975971 | 0.312 | 0.183 | 0.000503002 | 6 | 1.704918 |
| R3hdm4 | 5.12E-08 | 0.113556756 | 0.424 | 0.291 | 0.000508835 | 6 | 1.457045 |
| Sri | 5.13E-08 | 0.231182786 | 0.893 | 0.789 | 0.000509676 | 6 | 1.131812 |
| Gtf2f1 | 5.14E-08 | 0.061603125 | 0.268 | 0.172 | 0.000511392 | 6 | 1.55814 |
| Uqcrc1 | 5.23E-08 | 0.186567131 | 0.638 | 0.489 | 0.000519611 | 6 | 1.304703 |
| Ube2k | 5.29E-08 | 0.188497296 | 0.54 | 0.375 | 0.000526204 | 6 | 1.44 |
| Bsg | 5.35E-08 | 0.152921493 | 0.67 | 0.494 | 0.000531428 | 6 | 1.356275 |
| PISD | 5.44E-08 | 0.182217708 | 0.304 | 0.15 | 0.000540248 | 6 | 2.026667 |
| Desi2 | 5.74E-08 | 0.203801651 | 0.384 | 0.226 | 0.000570727 | 6 | 1.699115 |
| Xiap | 5.97E-08 | 0.097065933 | 0.272 | 0.174 | 0.000593778 | 6 | 1.563218 |
| Ndufv2 | 5.98E-08 | 0.223985829 | 0.683 | 0.51 | 0.000594359 | 6 | 1.339216 |
| H2-Oa | 6.02E-08 | 0.206263045 | 0.281 | 0.139 | 0.000598317 | 6 | 2.021583 |
| Commd3 | 6.07E-08 | 0.16826148 | 0.509 | 0.358 | 0.000602977 | 6 | 1.421788 |
| Mrpl19 | 6.08E-08 | 0.022910716 | 0.339 | 0.25 | 0.000604128 | 6 | 1.356 |
| Serp1 | 6.23E-08 | 0.174628646 | 0.562 | 0.383 | 0.000618983 | 6 | 1.467363 |
| Rest | 6.49E-08 | 0.220279348 | 0.402 | 0.224 | 0.000645101 | 6 | 1.794643 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Cyth2 | 6.78E-08 | 0.112371186 | 0.268 | 0.157 | 0.000673686 | 6 | 1.707006 |
| Cdk5rap3 | 6.85E-08 | 0.116893167 | 0.366 | 0.229 | 0.000680567 | 6 | 1.598253 |
| Bzw1 | 6.94E-08 | 0.094198906 | 0.781 | 0.619 | 0.000689681 | 6 | 1.261712 |
| Mif4gd | 6.94E-08 | 0.186196494 | 0.335 | 0.207 | 0.000690233 | 6 | 1.618357 |
| Ftl1 | 7.00E-08 | 0.197921827 | 0.991 | 0.992 | 0.000695452 | 6 | 0.998992 |
| Mff | 7.01E-08 | 0.169163114 | 0.567 | 0.384 | 0.000697234 | 6 | 1.476563 |
| Pcnp | 7.08E-08 | 0.186232109 | 0.469 | 0.291 | 0.000703895 | 6 | 1.611684 |
| Mtch2 | 7.10E-08 | 0.043412003 | 0.415 | 0.306 | 0.00070602 | 6 | 1.356209 |
| Bin3 | 7.12E-08 | 0.09961645 | 0.29 | 0.177 | 0.000707382 | 6 | 1.638418 |
| Commd4 | 7.25E-08 | 0.18156249 | 0.491 | 0.318 | 0.000720397 | 6 | 1.544025 |
| Ubtf | 7.35E-08 | 0.168255829 | 0.482 | 0.341 | 0.000730735 | 6 | 1.41349 |
| Appbp2 | 7.42E-08 | 0.119618746 | 0.268 | 0.146 | 0.000737476 | 6 | 1.835616 |
| Gnb2 | 7.47E-08 | 0.235088823 | 0.799 | 0.635 | 0.000742085 | 6 | 1.258268 |
| Spg21 | 7.62E-08 | 0.17021736 | 0.415 | 0.281 | 0.000757631 | 6 | 1.476868 |
| Ebpl | 7.78E-08 | 0.155118528 | 0.371 | 0.231 | 0.000773301 | 6 | 1.606061 |
| Upf2 | 7.83E-08 | 0.063169238 | 0.397 | 0.275 | 0.000778505 | 6 | 1.443636 |
| Cdkn1b | 8.09E-08 | 0.219248827 | 0.518 | 0.363 | 0.000803998 | 6 | 1.426997 |
| Uba1 | 8.13E-08 | 0.19551246 | 0.397 | 0.244 | 0.000807714 | 6 | 1.627049 |
| Stx5a | 8.18E-08 | 0.115231008 | 0.344 | 0.233 | 0.000813538 | 6 | 1.476395 |
| Glrx2 | 8.25E-08 | 0.040761436 | 0.379 | 0.282 | 0.000820521 | 6 | 1.343972 |
| Zfr | 8.41E-08 | 0.16093567 | 0.379 | 0.244 | 0.000835841 | 6 | 1.553279 |
| Arpc3 | 8.62E-08 | 0.217916329 | 0.893 | 0.813 | 0.000857077 | 6 | 1.098401 |
| B2m | 8.77E-08 | 0.11799896 | 1 | 1 | 0.000871769 | 6 | 1 |
| Pnrc2 | 9.17E-08 | 0.222818847 | 0.527 | 0.357 | 0.000911116 | 6 | 1.47619 |
| Gipc1 | 9.27E-08 | 0.154017553 | 0.272 | 0.139 | 0.000921472 | 6 | 1.956835 |
| Kmt2e | 9.30E-08 | 0.174060584 | 0.696 | 0.522 | 0.000924365 | 6 | 1.333333 |
| Tlk1 | 9.52E-08 | 0.157980415 | 0.326 | 0.219 | 0.000945933 | 6 | 1.488584 |
| Etfa | 9.85E-08 | 0.158367395 | 0.424 | 0.269 | 0.000979434 | 6 | 1.576208 |
| Ndufb8 | 9.94E-08 | 0.210211948 | 0.728 | 0.554 | 0.000987834 | 6 | 1.314079 |
| Tmed3 | 9.97E-08 | 0.057698225 | 0.272 | 0.181 | 0.000991386 | 6 | 1.502762 |
| Mrpl4 | 1.01E-07 | 0.118202498 | 0.402 | 0.261 | 0.001004989 | 6 | 1.54023 |
| Fam104a | 1.01E-07 | 0.171387015 | 0.589 | 0.429 | 0.001006595 | 6 | 1.37296 |
| Crbn | 1.03E-07 | 0.053041578 | 0.482 | 0.359 | 0.001025508 | 6 | 1.342618 |
| Sdhc | 1.09E-07 | 0.055228398 | 0.379 | 0.279 | 0.001080644 | 6 | 1.358423 |
| Asf1a | 1.11E-07 | 0.06269827 | 0.299 | 0.218 | 0.001100975 | 6 | 1.37156 |
| Wash1 | 1.11E-07 | 0.121297974 | 0.326 | 0.193 | 0.001104467 | 6 | 1.689119 |
| Smim8 | 1.11E-07 | 0.104468228 | 0.335 | 0.212 | 0.001104723 | 6 | 1.580189 |
| Ube2j2 | 1.12E-07 | 0.060002337 | 0.451 | 0.328 | 0.001115904 | 6 | 1.375 |
| Cbr1 | 1.18E-07 | 0.087410466 | 0.317 | 0.214 | 0.001171257 | 6 | 1.481308 |
| Pfdn6 | 1.18E-07 | 0.045560683 | 0.429 | 0.334 | 0.001176234 | 6 | 1.284431 |
| Ndufs2 | 1.20E-07 | 0.186851863 | 0.625 | 0.475 | 0.001196178 | 6 | 1.315789 |
| Lsm1 | 1.24E-07 | 0.089172632 | 0.442 | 0.333 | 0.001235762 | 6 | 1.327327 |
| Commd1 | 1.26E-07 | 0.110204953 | 0.357 | 0.224 | 0.00125457 | 6 | 1.59375 |
| Mlec | 1.32E-07 | 0.210180339 | 0.366 | 0.207 | 0.00131035 | 6 | 1.768116 |
| Ttc1 | 1.32E-07 | 0.086385425 | 0.353 | 0.235 | 0.00131406 | 6 | 1.502128 |
| Lcp1 | 1.33E-07 | 0.217758688 | 0.911 | 0.814 | 0.001324602 | 6 | 1.119165 |
| Rock1 | 1.34E-07 | 0.13963102 | 0.612 | 0.446 | 0.001332134 | 6 | 1.372197 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| 9130401M01Rik | 1.37E-07 | 0.081866324 | 0.259 | 0.159 | 0.001357909 | 6 | 1.628931 |
| Xlr4a | 1.37E-07 | 0.210275309 | 0.272 | 0.13 | 0.001358341 | 6 | 2.092308 |
| Lamtor5 | 1.38E-07 | 0.183980809 | 0.589 | 0.437 | 0.001370975 | 6 | 1.347826 |
| Eif2b2 | 1.39E-07 | 0.094948493 | 0.286 | 0.18 | 0.001376903 | 6 | 1.588889 |
| Mettl23 | 1.40E-07 | 0.094258049 | 0.464 | 0.327 | 0.001393579 | 6 | 1.41896 |
| Med30 | 1.46E-07 | 0.004174383 | 0.344 | 0.274 | 0.001448615 | 6 | 1.255474 |
| Psm12 | 1.51E-07 | 0.148139387 | 0.518 | 0.351 | 0.001503475 | 6 | 1.475783 |
| Rnf34 | 1.55E-07 | 0.16945068 | 0.304 | 0.171 | 0.001541203 | 6 | 1.777778 |
| Map2k2 | 1.63E-07 | 0.138126045 | 0.621 | 0.458 | 0.001617359 | 6 | 1.355895 |
| Sin3b | 1.65E-07 | 0.176570248 | 0.629 | 0.453 | 0.001644848 | 6 | 1.388521 |
| Pet100 | 1.69E-07 | 0.135855906 | 0.571 | 0.403 | 0.001677974 | 6 | 1.416873 |
| Ppp1r10 | 1.72E-07 | 0.141022477 | 0.33 | 0.231 | 0.001707033 | 6 | 1.428571 |
| Ifi27 | 1.76E-07 | 0.17096827 | 0.647 | 0.557 | 0.001750475 | 6 | 1.16158 |
| Zc3h14 | 1.80E-07 | 0.155949032 | 0.286 | 0.171 | 0.00179277 | 6 | 1.672515 |
| Trappc6a | 1.81E-07 | 0.057671194 | 0.433 | 0.315 | 0.001795506 | 6 | 1.374603 |
| Serinc1 | 1.81E-07 | 0.026374846 | 0.317 | 0.238 | 0.001799828 | 6 | 1.331933 |
| Arf6 | 1.82E-07 | 0.184523736 | 0.634 | 0.518 | 0.001804515 | 6 | 1.223938 |
| Srp9 | 1.84E-07 | 0.215200218 | 0.857 | 0.718 | 0.001826389 | 6 | 1.193593 |
| Nfkbib | 1.86E-07 | 0.085312673 | 0.29 | 0.181 | 0.001844434 | 6 | 1.60221 |
| Atp6v1d | 1.87E-07 | 0.207721661 | 0.42 | 0.264 | 0.001859335 | 6 | 1.590909 |
| 2310036O22Rik | 1.89E-07 | 0.174435183 | 0.772 | 0.629 | 0.001878364 | 6 | 1.227345 |
| Tceb3 | 1.90E-07 | 0.085917263 | 0.259 | 0.156 | 0.001884833 | 6 | 1.660256 |
| Bloc1s1 | 1.93E-07 | 0.07989112 | 0.344 | 0.247 | 0.001917324 | 6 | 1.392713 |
| Clptm1l | 1.94E-07 | 0.047437517 | 0.348 | 0.249 | 0.001929306 | 6 | 1.39759 |
| Cd37 | 2.02E-07 | 0.180336023 | 0.772 | 0.62 | 0.002004334 | 6 | 1.245161 |
| Rpl7l1 | 2.03E-07 | 0.0776194 | 0.451 | 0.32 | 0.002020681 | 6 | 1.409375 |
| Nit1 | 2.04E-07 | 0.135957289 | 0.263 | 0.136 | 0.002031451 | 6 | 1.933824 |
| Cs | 2.07E-07 | 0.05577537 | 0.295 | 0.197 | 0.002059852 | 6 | 1.497462 |
| Gnas | 2.11E-07 | 0.209155858 | 0.946 | 0.862 | 0.002101713 | 6 | 1.097448 |
| Fkbp8 | 2.14E-07 | 0.118670179 | 0.67 | 0.523 | 0.002122668 | 6 | 1.281071 |
| Tram1 | 2.14E-07 | 0.189030919 | 0.629 | 0.463 | 0.002129397 | 6 | 1.358531 |
| Eif1ax | 2.16E-07 | 0.175618679 | 0.5 | 0.339 | 0.002145354 | 6 | 1.474926 |
| Cisd1 | 2.19E-07 | 0.182228152 | 0.335 | 0.196 | 0.002177698 | 6 | 1.709184 |
| Elmo1 | 2.20E-07 | 0.097609313 | 0.424 | 0.344 | 0.002182935 | 6 | 1.232558 |
| Ccdc59 | 2.30E-07 | 0.004323987 | 0.411 | 0.322 | 0.00228345 | 6 | 1.276398 |
| Cyb5a | 2.37E-07 | 0.209717061 | 0.786 | 0.634 | 0.002356421 | 6 | 1.239748 |
| Smarcd1 | 2.43E-07 | 0.092411329 | 0.263 | 0.155 | 0.00241101 | 6 | 1.696774 |
| Stx8 | 2.43E-07 | 0.151136713 | 0.321 | 0.186 | 0.002415249 | 6 | 1.725806 |
| Zbtb8os | 2.50E-07 | 0.188525352 | 0.433 | 0.264 | 0.002483641 | 6 | 1.640152 |
| Cwc15 | 2.63E-07 | 0.161447148 | 0.656 | 0.48 | 0.002616635 | 6 | 1.366667 |
| Sart1 | 2.64E-07 | 0.119781599 | 0.344 | 0.234 | 0.002626239 | 6 | 1.470085 |
| Tceb2 | 2.67E-07 | 0.203451092 | 0.92 | 0.834 | 0.002655073 | 6 | 1.103118 |
| Prkacb | 2.68E-07 | 0.187729975 | 0.487 | 0.309 | 0.002659 | 6 | 1.576052 |
| Abi1 | 2.68E-07 | 0.132439057 | 0.388 | 0.242 | 0.002664378 | 6 | 1.603306 |
| Acat1 | 2.68E-07 | 0.169030005 | 0.482 | 0.309 | 0.002664417 | 6 | 1.559871 |
| Mvb12a | 2.72E-07 | 0.159497798 | 0.272 | 0.149 | 0.002702204 | 6 | 1.825503 |
| Rad21 | 2.72E-07 | 0.123154729 | 0.29 | 0.19 | 0.002703956 | 6 | 1.526316 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Psmb7 | 2.75E-07 | 0.206521715 | 0.594 | 0.409 | 0.002734087 | 6 | 1.452323 |
| Atrx | 2.83E-07 | 0.24373359 | 0.768 | 0.612 | 0.002815465 | 6 | 1.254902 |
| Rnf166 | 2.87E-07 | 0.086931979 | 0.29 | 0.186 | 0.002854796 | 6 | 1.55914 |
| Max | 2.91E-07 | 0.1033312 | 0.473 | 0.335 | 0.00289518 | 6 | 1.41194 |
| Nxt1 | 2.93E-07 | 0.094091663 | 0.321 | 0.211 | 0.002908236 | 6 | 1.521327 |
| Traf5 | 2.95E-07 | 0.094808773 | 0.272 | 0.171 | 0.002933229 | 6 | 1.590643 |
| Dguok | 2.96E-07 | 0.186311005 | 0.518 | 0.354 | 0.002941254 | 6 | 1.463277 |
| Zfand2b | 2.97E-07 | 0.126426221 | 0.272 | 0.148 | 0.002947923 | 6 | 1.837838 |
| Derl1 | 2.99E-07 | 0.123297165 | 0.433 | 0.288 | 0.002971095 | 6 | 1.503472 |
| Xlr4b | 2.99E-07 | 0.178845717 | 0.478 | 0.304 | 0.002974601 | 6 | 1.572368 |
| Ywhah | 3.03E-07 | 0.193418188 | 0.665 | 0.475 | 0.003016361 | 6 | 1.4 |
| Upf3b | 3.04E-07 | 0.113245903 | 0.353 | 0.227 | 0.003016802 | 6 | 1.555066 |
| Rnf10 | 3.14E-07 | 0.161066342 | 0.487 | 0.326 | 0.00311758 | 6 | 1.493865 |
| Letm1 | 3.17E-07 | 0.066586026 | 0.263 | 0.191 | 0.003151896 | 6 | 1.376963 |
| Supt20 | 3.17E-07 | 0.185669544 | 0.362 | 0.245 | 0.003152848 | 6 | 1.477551 |
| 3830406C13Rik | 3.18E-07 | 0.128115136 | 0.259 | 0.148 | 0.003164991 | 6 | 1.75 |
| Kdelr1 | 3.22E-07 | 0.119793119 | 0.384 | 0.249 | 0.003198894 | 6 | 1.542169 |
| Rfc2 | 3.23E-07 | 0.11603582 | 0.366 | 0.24 | 0.003214277 | 6 | 1.525 |
| Rbm22 | 3.25E-07 | 0.036478861 | 0.379 | 0.29 | 0.003233072 | 6 | 1.306897 |
| Fam3c | 3.30E-07 | 0.176723523 | 0.46 | 0.319 | 0.003275411 | 6 | 1.442006 |
| Cbfb | 3.37E-07 | 0.155980781 | 0.353 | 0.231 | 0.003350772 | 6 | 1.528139 |
| Pacsin1 | 3.41E-07 | 0.170722444 | 0.308 | 0.208 | 0.003385529 | 6 | 1.480769 |
| Borcs8 | 3.47E-07 | 0.194284269 | 0.513 | 0.339 | 0.003446216 | 6 | 1.513274 |
| Gm6483 | 3.48E-07 | 0.133901807 | 0.371 | 0.266 | 0.003455132 | 6 | 1.394737 |
| Mob4 | 3.51E-07 | 0.095136391 | 0.379 | 0.274 | 0.00349019 | 6 | 1.383212 |
| Hadha | 3.54E-07 | 0.174666435 | 0.433 | 0.295 | 0.003514091 | 6 | 1.467797 |
| Gm8797 | 3.59E-07 | 0.145199473 | 0.348 | 0.248 | 0.003568984 | 6 | 1.403226 |
| Gpbp1l1 | 3.65E-07 | 0.129913268 | 0.371 | 0.248 | 0.003627801 | 6 | 1.495968 |
| Rwdd4a | 3.72E-07 | 0.047233014 | 0.277 | 0.189 | 0.003693328 | 6 | 1.465608 |
| Bcl11b | 3.74E-07 | 0.220007465 | 0.897 | 0.772 | 0.003715785 | 6 | 1.161917 |
| Ndufa10 | 3.74E-07 | 0.01148804 | 0.607 | 0.494 | 0.003718474 | 6 | 1.228745 |
| Smarcd2 | 3.78E-07 | 0.151793738 | 0.393 | 0.248 | 0.00376126 | 6 | 1.584677 |
| Rpp25l | 3.84E-07 | 0.087956155 | 0.272 | 0.167 | 0.003821245 | 6 | 1.628743 |
| Smarcb1 | 3.89E-07 | 0.197072257 | 0.366 | 0.203 | 0.003869092 | 6 | 1.802956 |
| 2610001J05Rik | 3.92E-07 | 0.038547594 | 0.366 | 0.27 | 0.003893257 | 6 | 1.355556 |
| Bptf | 3.93E-07 | 0.03952924 | 0.527 | 0.404 | 0.003905283 | 6 | 1.304455 |
| Sirt2 | 3.94E-07 | 0.081256605 | 0.268 | 0.174 | 0.003917824 | 6 | 1.54023 |
| Rnf145 | 3.97E-07 | 0.11237862 | 0.286 | 0.188 | 0.003948265 | 6 | 1.521277 |
| Zbtb1 | 3.99E-07 | 0.149865201 | 0.357 | 0.212 | 0.003966543 | 6 | 1.683962 |
| Scg5 | 3.99E-07 | 0.207687939 | 0.504 | 0.358 | 0.003968295 | 6 | 1.407821 |
| Mbp | 4.00E-07 | 0.180663481 | 0.312 | 0.173 | 0.003974052 | 6 | 1.803468 |
| Ccdc12 | 4.12E-07 | 0.181730917 | 0.786 | 0.617 | 0.004099476 | 6 | 1.273906 |
| Mrpl46 | 4.18E-07 | 0.065872706 | 0.33 | 0.227 | 0.004155639 | 6 | 1.453744 |
| Ddx24 | 4.23E-07 | 0.21127579 | 0.705 | 0.594 | 0.004202403 | 6 | 1.186869 |
| H2afx | 4.24E-07 | 0.155103223 | 0.344 | 0.198 | 0.004216175 | 6 | 1.737374 |
| Dcun1d5 | 4.27E-07 | 0.161280625 | 0.522 | 0.385 | 0.004241994 | 6 | 1.355844 |
| Ap3s1 | 4.38E-07 | 0.145022766 | 0.281 | 0.16 | 0.004353326 | 6 | 1.75625 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Ube2l3 | 4.41E-07 | 0.213790523 | 0.67 | 0.499 | 0.004383209 | 6 | 1.342685 |
| Echs1 | 4.46E-07 | 0.063101341 | 0.286 | 0.193 | 0.004428947 | 6 | 1.481865 |
| 1700020i14Rik | 4.49E-07 | 0.161688655 | 0.371 | 0.236 | 0.004461843 | 6 | 1.572034 |
| Foxn3 | 4.59E-07 | 0.09477347 | 0.29 | 0.177 | 0.0045642 | 6 | 1.638418 |
| Taf6l | 4.60E-07 | 0.054195336 | 0.518 | 0.4 | 0.004576163 | 6 | 1.295 |
| Yeats4 | 4.61E-07 | 0.057767778 | 0.46 | 0.34 | 0.004587105 | 6 | 1.352941 |
| Nsfl1c | 4.73E-07 | 0.125877683 | 0.411 | 0.279 | 0.004697673 | 6 | 1.473118 |
| Riok3 | 4.90E-07 | 0.150492047 | 0.344 | 0.199 | 0.004866596 | 6 | 1.728643 |
| Cetn2 | 4.95E-07 | 0.153640314 | 0.513 | 0.348 | 0.004917803 | 6 | 1.474138 |
| Hspa14 | 4.97E-07 | 0.008773544 | 0.335 | 0.266 | 0.004942868 | 6 | 1.259398 |
| Ddb1 | 5.00E-07 | 0.117883417 | 0.286 | 0.167 | 0.004971406 | 6 | 1.712575 |
| Trappc5 | 5.03E-07 | 0.083761631 | 0.312 | 0.205 | 0.005000435 | 6 | 1.521951 |
| Psenen | 5.24E-07 | 0.206389521 | 0.83 | 0.729 | 0.005206834 | 6 | 1.138546 |
| Prorsd1 | 5.29E-07 | 0.096856157 | 0.321 | 0.231 | 0.005258054 | 6 | 1.38961 |
| Cdc42se2 | 5.36E-07 | 0.181350057 | 0.571 | 0.415 | 0.005330652 | 6 | 1.375904 |
| Sec13 | 5.38E-07 | 0.087498258 | 0.371 | 0.253 | 0.005349162 | 6 | 1.466403 |
| Polr1d | 5.46E-07 | 0.22031952 | 0.79 | 0.671 | 0.005426109 | 6 | 1.177347 |
| Tmed7 | 5.47E-07 | 0.068591507 | 0.299 | 0.2 | 0.005438888 | 6 | 1.495 |
| Dnajc7 | 5.49E-07 | 0.117006619 | 0.549 | 0.438 | 0.005457007 | 6 | 1.253425 |
| Zcchc6 | 5.49E-07 | 0.03925602 | 0.326 | 0.239 | 0.005461883 | 6 | 1.364017 |
| Atp5a1 | 5.50E-07 | 0.213036172 | 0.884 | 0.799 | 0.005467807 | 6 | 1.106383 |
| Chmp1a | 5.51E-07 | 0.153251295 | 0.339 | 0.22 | 0.005480147 | 6 | 1.540909 |
| Taok3 | 5.54E-07 | 0.116536222 | 0.388 | 0.279 | 0.005503714 | 6 | 1.390681 |
| Cyld | 5.54E-07 | 0.179800691 | 0.433 | 0.278 | 0.00551035 | 6 | 1.557554 |
| Otub1 | 5.58E-07 | 0.066675214 | 0.335 | 0.236 | 0.005541664 | 6 | 1.419492 |
| Spop | 5.68E-07 | 0.132068923 | 0.451 | 0.341 | 0.005648283 | 6 | 1.322581 |
| Ctsc | 5.73E-07 | 0.048127418 | 0.335 | 0.241 | 0.005691153 | 6 | 1.390041 |
| Gnb1 | 5.74E-07 | 0.118030077 | 0.42 | 0.288 | 0.005706882 | 6 | 1.458333 |
| Tmpo | 5.89E-07 | 0.128472998 | 0.402 | 0.271 | 0.00585072 | 6 | 1.483395 |
| Cab39 | 6.02E-07 | 0.17497675 | 0.397 | 0.25 | 0.005983558 | 6 | 1.588 |
| Yy1 | 6.05E-07 | 0.083510075 | 0.415 | 0.317 | 0.006012842 | 6 | 1.309148 |
| Gmps | 6.06E-07 | 0.098253647 | 0.339 | 0.221 | 0.006027383 | 6 | 1.533937 |
| Ppp2ca | 6.10E-07 | 0.116498246 | 0.442 | 0.296 | 0.006064194 | 6 | 1.493243 |
| Fyn | 6.16E-07 | 0.224565626 | 0.487 | 0.356 | 0.006121109 | 6 | 1.367978 |
| Aip | 6.25E-07 | 0.065712462 | 0.482 | 0.354 | 0.006211102 | 6 | 1.361582 |
| Cd48 | 6.26E-07 | 0.20199703 | 0.692 | 0.538 | 0.006225327 | 6 | 1.286245 |
| Sh3glb2 | 6.33E-07 | 0.137411328 | 0.286 | 0.158 | 0.006296697 | 6 | 1.810127 |
| Pip4k2a | 6.34E-07 | 0.164664339 | 0.299 | 0.174 | 0.00630039 | 6 | 1.718391 |
| Cast | 6.34E-07 | 0.089094177 | 0.406 | 0.279 | 0.00630476 | 6 | 1.455197 |
| Ppp1ca | 6.44E-07 | 0.202619762 | 0.955 | 0.895 | 0.006396945 | 6 | 1.067039 |
| Hnrnp2 | 6.47E-07 | 0.087921633 | 0.379 | 0.255 | 0.006435059 | 6 | 1.486275 |
| Psmc4 | 6.48E-07 | 0.052980857 | 0.522 | 0.411 | 0.006440118 | 6 | 1.270073 |
| Zfc3h1 | 6.49E-07 | 0.094845379 | 0.254 | 0.147 | 0.006446542 | 6 | 1.727891 |
| Cnppd1 | 6.60E-07 | 0.062285386 | 0.335 | 0.234 | 0.00656486 | 6 | 1.431624 |
| Cfdp1 | 6.63E-07 | 0.096228203 | 0.438 | 0.317 | 0.006590709 | 6 | 1.381703 |
| Tmem70 | 6.64E-07 | 0.03392485 | 0.254 | 0.179 | 0.006596807 | 6 | 1.418994 |
| Unc13d | 6.71E-07 | 0.098111085 | 0.272 | 0.162 | 0.006671644 | 6 | 1.679012 |

| | | | | | | | | |
|----------|--------|----------|-------------|-------|-------|-------------|---|----------|
| Hn1 | | 6.72E-07 | 0.199748545 | 0.879 | 0.757 | 0.006678567 | 6 | 1.161162 |
| | Sep-09 | 6.75E-07 | 0.185578335 | 0.58 | 0.416 | 0.006705958 | 6 | 1.394231 |
| | Mar-02 | 6.78E-07 | 0.125335724 | 0.554 | 0.402 | 0.006736727 | 6 | 1.378109 |
| Ing2 | | 6.94E-07 | 0.149091071 | 0.268 | 0.142 | 0.006899362 | 6 | 1.887324 |
| Surf1 | | 6.98E-07 | 0.137417159 | 0.353 | 0.212 | 0.00693416 | 6 | 1.665094 |
| Ube2q1 | | 6.99E-07 | 0.095163543 | 0.268 | 0.175 | 0.006944977 | 6 | 1.531429 |
| Polr2m | | 6.99E-07 | 0.150486138 | 0.571 | 0.439 | 0.006949662 | 6 | 1.300683 |
| Srrt | | 7.15E-07 | 0.099104536 | 0.393 | 0.263 | 0.007104149 | 6 | 1.494297 |
| Dcps | | 7.21E-07 | 0.110910835 | 0.406 | 0.269 | 0.007165933 | 6 | 1.509294 |
| Ddit4 | | 7.22E-07 | 0.187310195 | 0.527 | 0.355 | 0.007180353 | 6 | 1.484507 |
| Trim8 | | 7.28E-07 | 0.1862543 | 0.326 | 0.175 | 0.007238046 | 6 | 1.862857 |
| Nabp2 | | 7.29E-07 | 0.164886734 | 0.344 | 0.197 | 0.007245639 | 6 | 1.746193 |
| Mrpl13 | | 7.34E-07 | 0.098037802 | 0.335 | 0.221 | 0.007298927 | 6 | 1.515837 |
| Coa3 | | 7.49E-07 | 0.027270618 | 0.491 | 0.409 | 0.007440274 | 6 | 1.200489 |
| Xaf1 | | 7.54E-07 | 0.02309117 | 0.33 | 0.239 | 0.007493389 | 6 | 1.380753 |
| Ubl3 | | 7.55E-07 | 0.203048206 | 0.312 | 0.163 | 0.007509302 | 6 | 1.91411 |
| Ppp2r5c | | 7.56E-07 | 0.146956519 | 0.299 | 0.182 | 0.007517295 | 6 | 1.642857 |
| Ciapi1 | | 7.58E-07 | 0.021125741 | 0.263 | 0.204 | 0.007533503 | 6 | 1.289216 |
| Hexb | | 7.72E-07 | 0.044028655 | 0.263 | 0.186 | 0.007670369 | 6 | 1.413978 |
| Adrbk1 | | 7.90E-07 | 0.105783892 | 0.397 | 0.3 | 0.007853821 | 6 | 1.323333 |
| Anxa11 | | 8.00E-07 | 0.075188647 | 0.335 | 0.232 | 0.007954403 | 6 | 1.443966 |
| Ndufv1 | | 8.03E-07 | 0.001174862 | 0.33 | 0.26 | 0.007986585 | 6 | 1.269231 |
| Snx17 | | 8.06E-07 | 0.109495187 | 0.406 | 0.291 | 0.008007262 | 6 | 1.395189 |
| Rnft1 | | 8.10E-07 | 0.16083001 | 0.254 | 0.126 | 0.008052954 | 6 | 2.015873 |
| Tspo | | 8.30E-07 | 0.218031713 | 0.893 | 0.792 | 0.008251224 | 6 | 1.127525 |
| Camk4 | | 8.35E-07 | 0.132787138 | 0.362 | 0.243 | 0.008298281 | 6 | 1.489712 |
| Psma6 | | 8.39E-07 | 0.202724001 | 0.661 | 0.541 | 0.008344308 | 6 | 1.221811 |
| Glod4 | | 8.41E-07 | 0.11302183 | 0.263 | 0.151 | 0.008356184 | 6 | 1.741722 |
| Bscl2 | | 8.49E-07 | 0.175946953 | 0.357 | 0.217 | 0.008443153 | 6 | 1.645161 |
| Slirp | | 8.53E-07 | 0.044641324 | 0.415 | 0.308 | 0.008476382 | 6 | 1.347403 |
| Ccar1 | | 8.58E-07 | 0.108047925 | 0.33 | 0.218 | 0.008524192 | 6 | 1.513761 |
| Psma1 | | 8.62E-07 | 0.192605242 | 0.71 | 0.568 | 0.008568074 | 6 | 1.25 |
| Larp7 | | 8.71E-07 | 0.00688834 | 0.308 | 0.244 | 0.008657136 | 6 | 1.262295 |
| Lyrn2 | | 8.76E-07 | 0.154831841 | 0.304 | 0.197 | 0.008712334 | 6 | 1.543147 |
| Nrd1 | | 8.77E-07 | 0.148866464 | 0.438 | 0.287 | 0.008720855 | 6 | 1.526132 |
| Tbcc | | 8.78E-07 | 0.132282395 | 0.272 | 0.154 | 0.00873105 | 6 | 1.766234 |
| Cyfp2 | | 8.80E-07 | 0.076341285 | 0.308 | 0.223 | 0.008743081 | 6 | 1.381166 |
| Nck1 | | 8.92E-07 | 0.064924438 | 0.321 | 0.241 | 0.008866429 | 6 | 1.33195 |
| Polr2c | | 9.01E-07 | 0.095154848 | 0.406 | 0.296 | 0.008956691 | 6 | 1.371622 |
| H2afy | | 9.15E-07 | 0.140526052 | 0.723 | 0.568 | 0.009090688 | 6 | 1.272887 |
| | 15-Sep | 9.22E-07 | 0.206578926 | 0.839 | 0.704 | 0.00916041 | 6 | 1.191761 |
| Rap1gds1 | | 9.46E-07 | 0.13574844 | 0.317 | 0.187 | 0.009404413 | 6 | 1.695187 |
| St13 | | 9.51E-07 | 0.235009725 | 0.567 | 0.417 | 0.009456219 | 6 | 1.359712 |
| H3f3a | | 9.74E-07 | 0.177757801 | 0.982 | 0.966 | 0.009676843 | 6 | 1.016563 |
| Usp1 | | 9.77E-07 | 0.092750615 | 0.357 | 0.234 | 0.00971437 | 6 | 1.525641 |
| Pdap1 | | 9.89E-07 | 0.174016096 | 0.5 | 0.336 | 0.009829673 | 6 | 1.488095 |
| Smek2 | | 1.01E-06 | 0.172922689 | 0.554 | 0.412 | 0.010057406 | 6 | 1.34466 |

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|----------------|----------|-------------|-------|-------|-------------|---|----------|
| Pigt | 1.02E-06 | 0.13698593 | 0.326 | 0.196 | 0.010169672 | 6 | 1.663265 |
| Usp4 | 1.03E-06 | 0.108097351 | 0.29 | 0.172 | 0.010247512 | 6 | 1.686047 |
| Gpbp1 | 1.04E-06 | 0.079000517 | 0.576 | 0.433 | 0.010350187 | 6 | 1.330254 |
| 9930111J21Rik2 | 1.06E-06 | 0.056651713 | 0.522 | 0.481 | 0.010514408 | 6 | 1.085239 |
| Nfyb | 1.10E-06 | 0.103122018 | 0.272 | 0.176 | 0.010894103 | 6 | 1.545455 |
| Fam207a | 1.10E-06 | 0.094954488 | 0.268 | 0.163 | 0.010906836 | 6 | 1.644172 |
| Acot9 | 1.10E-06 | 0.090404952 | 0.254 | 0.157 | 0.010941161 | 6 | 1.617834 |
| Slc9a3r1 | 1.10E-06 | 0.212022745 | 0.719 | 0.582 | 0.010947067 | 6 | 1.235395 |
| Eif3h | 1.11E-06 | 0.182225418 | 0.978 | 0.959 | 0.011043833 | 6 | 1.019812 |
| Man2b1 | 1.11E-06 | 0.126722524 | 0.268 | 0.175 | 0.011045339 | 6 | 1.531429 |
| Dnajc1 | 1.12E-06 | 0.109210892 | 0.411 | 0.277 | 0.011126135 | 6 | 1.483755 |
| Map4k4 | 1.12E-06 | 0.11614686 | 0.335 | 0.231 | 0.011171243 | 6 | 1.450216 |
| Hdac3 | 1.16E-06 | 0.108706947 | 0.272 | 0.161 | 0.011488184 | 6 | 1.689441 |
| Malsu1 | 1.16E-06 | 0.060903371 | 0.272 | 0.182 | 0.011492276 | 6 | 1.494505 |
| Eif4a3 | 1.18E-06 | 0.010979699 | 0.46 | 0.395 | 0.011753978 | 6 | 1.164557 |
| Mrpl48 | 1.20E-06 | 0.02935668 | 0.344 | 0.259 | 0.01191368 | 6 | 1.328185 |
| Sucla2 | 1.21E-06 | 0.092135601 | 0.299 | 0.195 | 0.011999151 | 6 | 1.533333 |
| Samsn1 | 1.21E-06 | 0.235368537 | 0.312 | 0.166 | 0.012005912 | 6 | 1.879518 |
| Nadk | 1.21E-06 | 0.168056546 | 0.304 | 0.162 | 0.01206753 | 6 | 1.876543 |
| Grb2 | 1.25E-06 | 0.142762054 | 0.411 | 0.28 | 0.012467599 | 6 | 1.467857 |
| Safb2 | 1.26E-06 | 0.047220977 | 0.393 | 0.289 | 0.012534705 | 6 | 1.359862 |
| Gnai3 | 1.28E-06 | 0.080431266 | 0.393 | 0.29 | 0.012708474 | 6 | 1.355172 |
| Gdi1 | 1.31E-06 | 0.133088158 | 0.299 | 0.18 | 0.013033687 | 6 | 1.661111 |
| Necap2 | 1.34E-06 | 0.096649461 | 0.326 | 0.217 | 0.013344902 | 6 | 1.502304 |
| Rnf114 | 1.34E-06 | 0.081222452 | 0.433 | 0.314 | 0.013350236 | 6 | 1.378981 |
| Ensa | 1.34E-06 | 0.114704154 | 0.29 | 0.178 | 0.013357988 | 6 | 1.629213 |
| Npepps | 1.35E-06 | 0.12572953 | 0.29 | 0.173 | 0.01339851 | 6 | 1.676301 |
| Med1 | 1.42E-06 | 0.033538614 | 0.277 | 0.199 | 0.014164223 | 6 | 1.39196 |
| Pum2 | 1.43E-06 | 0.045063473 | 0.429 | 0.32 | 0.014205427 | 6 | 1.340625 |
| Parvg | 1.44E-06 | 0.069874441 | 0.263 | 0.174 | 0.014308295 | 6 | 1.511494 |
| Drg1 | 1.48E-06 | 0.071733649 | 0.362 | 0.26 | 0.014665589 | 6 | 1.392308 |
| Txndc17 | 1.48E-06 | 0.172008001 | 0.549 | 0.423 | 0.014721859 | 6 | 1.297872 |
| Aggf1 | 1.49E-06 | 0.07678266 | 0.326 | 0.222 | 0.014763488 | 6 | 1.468468 |
| Cox7c | 1.49E-06 | 0.170280168 | 0.969 | 0.911 | 0.014842009 | 6 | 1.063666 |
| Btbd1 | 1.52E-06 | 0.049171339 | 0.362 | 0.274 | 0.015069489 | 6 | 1.321168 |
| Dnajc10 | 1.63E-06 | 0.173995881 | 0.321 | 0.18 | 0.016152924 | 6 | 1.783333 |
| Exosc3 | 1.63E-06 | 0.145100485 | 0.42 | 0.275 | 0.016182427 | 6 | 1.527273 |
| Arl1 | 1.63E-06 | 0.034455302 | 0.308 | 0.229 | 0.016192634 | 6 | 1.344978 |
| Urod | 1.68E-06 | 0.057019676 | 0.259 | 0.182 | 0.016708779 | 6 | 1.423077 |
| Shfm1 | 1.69E-06 | 0.183086402 | 0.924 | 0.848 | 0.016801545 | 6 | 1.089623 |
| Rsrc2 | 1.72E-06 | 0.146227512 | 0.629 | 0.466 | 0.017097115 | 6 | 1.349785 |
| Dcaf13 | 1.75E-06 | 0.030685671 | 0.263 | 0.187 | 0.017371865 | 6 | 1.406417 |
| Glud1 | 1.75E-06 | 0.141141251 | 0.478 | 0.33 | 0.01741358 | 6 | 1.448485 |
| Son | 1.75E-06 | 0.161894095 | 0.969 | 0.881 | 0.017436285 | 6 | 1.099886 |
| Dctn3 | 1.77E-06 | 0.158808707 | 0.571 | 0.414 | 0.017590274 | 6 | 1.379227 |
| 1810058I24Rik | 1.81E-06 | 0.086583427 | 0.545 | 0.452 | 0.018027532 | 6 | 1.205752 |
| Akr1a1 | 1.83E-06 | 0.193517184 | 0.683 | 0.524 | 0.018151 | 6 | 1.303435 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Sf3b4 | 1.88E-06 | 0.056559035 | 0.42 | 0.313 | 0.01869876 | 6 | 1.341853 |
| Lsm12 | 1.90E-06 | 0.005097753 | 0.388 | 0.313 | 0.01887262 | 6 | 1.239617 |
| H2afz | 1.91E-06 | 0.228135137 | 0.902 | 0.865 | 0.019001384 | 6 | 1.042775 |
| Setd3 | 1.94E-06 | 0.125112508 | 0.29 | 0.179 | 0.019242211 | 6 | 1.620112 |
| Ormdl2 | 2.03E-06 | 0.091349283 | 0.286 | 0.186 | 0.020162378 | 6 | 1.537634 |
| Cept1 | 2.04E-06 | 0.108064688 | 0.295 | 0.189 | 0.020235562 | 6 | 1.560847 |
| Srsf9 | 2.07E-06 | 0.103194002 | 0.277 | 0.174 | 0.020604048 | 6 | 1.591954 |
| Wdr1 | 2.10E-06 | 0.185867126 | 0.638 | 0.484 | 0.020828044 | 6 | 1.318182 |
| Spcs3 | 2.10E-06 | 0.11201793 | 0.295 | 0.178 | 0.020846737 | 6 | 1.657303 |
| Vrk1 | 2.10E-06 | 0.119962597 | 0.411 | 0.296 | 0.020878367 | 6 | 1.388514 |
| Cbx1 | 2.11E-06 | 0.098365639 | 0.518 | 0.399 | 0.021006654 | 6 | 1.298246 |
| Vimp | 2.15E-06 | 0.036144666 | 0.504 | 0.396 | 0.021419105 | 6 | 1.272727 |
| Prkar1a | 2.16E-06 | 0.163915739 | 0.723 | 0.558 | 0.021436743 | 6 | 1.295699 |
| Nfkbia | 2.17E-06 | 0.274690011 | 0.723 | 0.575 | 0.021605874 | 6 | 1.257391 |
| Acp1 | 2.18E-06 | 0.077493472 | 0.348 | 0.248 | 0.02164181 | 6 | 1.403226 |
| Eif2s3y | 2.24E-06 | 0.070570165 | 0.433 | 0.319 | 0.022248451 | 6 | 1.357367 |
| Trmt1l | 2.25E-06 | 0.030508653 | 0.326 | 0.243 | 0.022409349 | 6 | 1.341564 |
| Ilk | 2.26E-06 | 0.114133029 | 0.397 | 0.263 | 0.022420622 | 6 | 1.509506 |
| Vdac1 | 2.26E-06 | 0.153923039 | 0.411 | 0.261 | 0.022434876 | 6 | 1.574713 |
| Ptbp3 | 2.26E-06 | 0.113048282 | 0.638 | 0.482 | 0.022445039 | 6 | 1.323651 |
| Hnrnpul1 | 2.27E-06 | 0.090521706 | 0.42 | 0.31 | 0.022554347 | 6 | 1.354839 |
| Junb | 2.27E-06 | 0.251991765 | 0.594 | 0.446 | 0.022580123 | 6 | 1.331839 |
| Snapc5 | 2.27E-06 | 0.165174815 | 0.46 | 0.316 | 0.022597632 | 6 | 1.455696 |
| Snx6 | 2.28E-06 | 0.159088051 | 0.388 | 0.262 | 0.022618801 | 6 | 1.480916 |
| Dnajb11 | 2.28E-06 | 0.096152397 | 0.451 | 0.332 | 0.022656901 | 6 | 1.358434 |
| Lims1 | 2.28E-06 | 0.195714182 | 0.438 | 0.278 | 0.022658882 | 6 | 1.57554 |
| Cops4 | 2.28E-06 | 0.142872496 | 0.429 | 0.288 | 0.022711365 | 6 | 1.489583 |
| Cd3e | 2.30E-06 | 0.164613141 | 0.946 | 0.842 | 0.022839177 | 6 | 1.123515 |
| Ppp6c | 2.31E-06 | 0.018451298 | 0.281 | 0.217 | 0.022936397 | 6 | 1.294931 |
| Aak1 | 2.35E-06 | 0.156908414 | 0.317 | 0.183 | 0.023372778 | 6 | 1.73224 |
| Sdha | 2.40E-06 | 0.117208267 | 0.625 | 0.469 | 0.023829697 | 6 | 1.332623 |
| 02-Mar | 2.41E-06 | 0.140271794 | 0.478 | 0.335 | 0.023986908 | 6 | 1.426866 |
| Zwint | 2.46E-06 | 0.087939955 | 0.357 | 0.246 | 0.024477466 | 6 | 1.45122 |
| Hpcal1 | 2.48E-06 | 0.20048945 | 0.487 | 0.333 | 0.024631657 | 6 | 1.462462 |
| Tm9sf3 | 2.48E-06 | 0.106501164 | 0.531 | 0.388 | 0.024685363 | 6 | 1.368557 |
| AB124611 | 2.49E-06 | 0.020199442 | 0.326 | 0.3 | 0.024771144 | 6 | 1.086667 |
| Ppp1r7 | 2.52E-06 | 0.038826457 | 0.259 | 0.192 | 0.025043027 | 6 | 1.348958 |
| Brd4 | 2.52E-06 | 0.114065439 | 0.388 | 0.257 | 0.025048904 | 6 | 1.509728 |
| Clip1 | 2.53E-06 | 0.18852741 | 0.451 | 0.31 | 0.025103454 | 6 | 1.454839 |
| Pmm2 | 2.54E-06 | 0.121101984 | 0.357 | 0.242 | 0.025206073 | 6 | 1.475207 |
| Tmem165 | 2.57E-06 | 0.076657861 | 0.272 | 0.177 | 0.025543823 | 6 | 1.536723 |
| Nt5c3b | 2.76E-06 | 0.15200603 | 0.344 | 0.206 | 0.027398639 | 6 | 1.669903 |
| Rgs3 | 2.76E-06 | 0.170480686 | 0.268 | 0.144 | 0.027465032 | 6 | 1.861111 |
| 2810428I15Rik | 2.79E-06 | 0.091109607 | 0.522 | 0.407 | 0.027772751 | 6 | 1.282555 |
| Srp54b | 2.81E-06 | 0.146748414 | 0.424 | 0.288 | 0.027977998 | 6 | 1.472222 |
| Slc39a7 | 2.84E-06 | 0.048619285 | 0.277 | 0.199 | 0.028208258 | 6 | 1.39196 |
| Ik | 2.86E-06 | 0.139016355 | 0.46 | 0.326 | 0.028389602 | 6 | 1.411043 |

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|-----------|----------|-------------|-------|-------|-------------|---|----------|
| Glrx3 | 2.91E-06 | 0.152409309 | 0.562 | 0.428 | 0.028959593 | 6 | 1.313084 |
| Jtb | 2.92E-06 | 0.130292395 | 0.54 | 0.395 | 0.029027425 | 6 | 1.367089 |
| Fam53b | 2.95E-06 | 0.149394753 | 0.504 | 0.393 | 0.029324665 | 6 | 1.282443 |
| Tmem258 | 2.96E-06 | 0.180392078 | 0.844 | 0.709 | 0.029394405 | 6 | 1.190409 |
| Dctn2 | 2.97E-06 | 0.099457288 | 0.295 | 0.194 | 0.029537668 | 6 | 1.520619 |
| Ubl4a | 3.00E-06 | 0.06201934 | 0.353 | 0.249 | 0.029852308 | 6 | 1.417671 |
| Prdx5 | 3.00E-06 | 0.128531131 | 0.621 | 0.467 | 0.029858031 | 6 | 1.329764 |
| Smim15 | 3.02E-06 | 0.033225925 | 0.375 | 0.287 | 0.030038473 | 6 | 1.30662 |
| Larp4b | 3.04E-06 | 0.081926038 | 0.317 | 0.225 | 0.030258214 | 6 | 1.408889 |
| Jarid2 | 3.05E-06 | 0.11098867 | 0.254 | 0.167 | 0.03031654 | 6 | 1.520958 |
| Birc6 | 3.05E-06 | 0.108600437 | 0.469 | 0.367 | 0.030361489 | 6 | 1.277929 |
| Cst3 | 3.08E-06 | 0.116905623 | 0.598 | 0.468 | 0.030568088 | 6 | 1.277778 |
| Rab35 | 3.15E-06 | 0.052060337 | 0.317 | 0.253 | 0.031304965 | 6 | 1.252964 |
| Tor2a | 3.16E-06 | 0.079475608 | 0.259 | 0.166 | 0.03141475 | 6 | 1.560241 |
| Akap13 | 3.19E-06 | 0.158963698 | 0.804 | 0.676 | 0.031757112 | 6 | 1.189349 |
| Pdcl3 | 3.23E-06 | 0.098318483 | 0.362 | 0.241 | 0.032098948 | 6 | 1.502075 |
| Gramd1a | 3.25E-06 | 0.106717019 | 0.554 | 0.415 | 0.032346403 | 6 | 1.33494 |
| Dut | 3.25E-06 | 0.092376058 | 0.397 | 0.298 | 0.032350013 | 6 | 1.332215 |
| Vps4b | 3.27E-06 | 0.111131386 | 0.442 | 0.307 | 0.032473152 | 6 | 1.439739 |
| Srpr | 3.28E-06 | 0.065655224 | 0.339 | 0.235 | 0.032590747 | 6 | 1.442553 |
| Paip2 | 3.34E-06 | 0.215418781 | 0.763 | 0.64 | 0.03320355 | 6 | 1.192188 |
| Ndfip2 | 3.42E-06 | 0.060236473 | 0.366 | 0.262 | 0.034005631 | 6 | 1.396947 |
| Zmat5 | 3.44E-06 | 0.105961327 | 0.388 | 0.261 | 0.034238109 | 6 | 1.48659 |
| Setd5 | 3.46E-06 | 0.143990924 | 0.353 | 0.262 | 0.034434797 | 6 | 1.347328 |
| Dda1 | 3.55E-06 | 0.000411701 | 0.339 | 0.271 | 0.035292382 | 6 | 1.250923 |
| Pgp | 3.57E-06 | 0.072022299 | 0.277 | 0.19 | 0.035528352 | 6 | 1.457895 |
| D10Jhu81e | 3.58E-06 | 0.117294572 | 0.335 | 0.21 | 0.035553323 | 6 | 1.595238 |
| Commd7 | 3.60E-06 | 0.131292728 | 0.446 | 0.307 | 0.035738677 | 6 | 1.452769 |
| Vta1 | 3.63E-06 | 0.093596829 | 0.286 | 0.177 | 0.03609026 | 6 | 1.615819 |
| Tmem167 | 3.66E-06 | 0.158666307 | 0.612 | 0.486 | 0.036416661 | 6 | 1.259259 |
| Rexo1 | 3.73E-06 | 0.01945307 | 0.335 | 0.278 | 0.037026735 | 6 | 1.205036 |
| Pqbp1 | 3.75E-06 | 0.071675609 | 0.348 | 0.244 | 0.037280352 | 6 | 1.42623 |
| Tmc6 | 3.77E-06 | 0.102408385 | 0.263 | 0.166 | 0.037450617 | 6 | 1.584337 |
| Trnt1 | 3.79E-06 | 0.036288148 | 0.286 | 0.204 | 0.037633879 | 6 | 1.401961 |
| Fxr1 | 3.81E-06 | 0.130053277 | 0.339 | 0.221 | 0.037869054 | 6 | 1.533937 |
| Erlec1 | 3.89E-06 | 0.157124938 | 0.286 | 0.173 | 0.038707245 | 6 | 1.653179 |
| Gabpb2 | 3.93E-06 | 0.084659495 | 0.388 | 0.274 | 0.039061441 | 6 | 1.416058 |
| Mum1 | 4.00E-06 | 0.054506931 | 0.268 | 0.182 | 0.039763071 | 6 | 1.472527 |
| Snrpc | 4.01E-06 | 0.068186549 | 0.5 | 0.4 | 0.039819129 | 6 | 1.25 |
| Fnbp1 | 4.09E-06 | 0.143913476 | 0.438 | 0.298 | 0.040612555 | 6 | 1.469799 |
| Stk17b | 4.18E-06 | 0.169624812 | 0.83 | 0.705 | 0.04156579 | 6 | 1.177305 |
| Mgea5 | 4.19E-06 | 0.127497258 | 0.312 | 0.216 | 0.041599172 | 6 | 1.444444 |
| Nfkb1 | 4.19E-06 | 0.126856007 | 0.353 | 0.236 | 0.041609679 | 6 | 1.495763 |
| Erbb2ip | 4.20E-06 | 0.173751859 | 0.379 | 0.231 | 0.041702335 | 6 | 1.640693 |
| BC017643 | 4.24E-06 | 0.13424712 | 0.357 | 0.221 | 0.042157489 | 6 | 1.615385 |
| Rab10 | 4.26E-06 | 0.180335344 | 0.567 | 0.4 | 0.042379422 | 6 | 1.4175 |
| Eapp | 4.28E-06 | 0.077778727 | 0.415 | 0.306 | 0.042554303 | 6 | 1.356209 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Tmbim6 | 4.40E-06 | 0.160288471 | 0.929 | 0.841 | 0.043761225 | 6 | 1.104637 |
| Sae1 | 4.44E-06 | 0.040493361 | 0.33 | 0.248 | 0.044083941 | 6 | 1.330645 |
| Gpr183 | 4.46E-06 | 0.114270266 | 0.246 | 0.253 | 0.044329377 | 6 | 0.972332 |
| Gm26699 | 4.47E-06 | 0.065436377 | 0.29 | 0.197 | 0.044429106 | 6 | 1.472081 |
| Gclm | 4.51E-06 | 0.129175833 | 0.268 | 0.157 | 0.044787032 | 6 | 1.707006 |
| Tcf7 | 4.52E-06 | 0.219736436 | 0.772 | 0.646 | 0.044902381 | 6 | 1.195046 |
| Ccz1 | 4.57E-06 | 0.070825523 | 0.299 | 0.207 | 0.04537675 | 6 | 1.444444 |
| Inpp5k | 4.65E-06 | 0.138589204 | 0.29 | 0.187 | 0.046189187 | 6 | 1.550802 |
| Ier5 | 4.65E-06 | 0.14422348 | 0.67 | 0.515 | 0.046229142 | 6 | 1.300971 |
| Al662270 | 4.74E-06 | 0.181733145 | 0.464 | 0.31 | 0.047073295 | 6 | 1.496774 |
| Hnrnpul2 | 4.74E-06 | 0.01856657 | 0.424 | 0.335 | 0.0471217 | 6 | 1.265672 |
| Sptssa | 4.74E-06 | 0.165253351 | 0.536 | 0.409 | 0.047131645 | 6 | 1.310513 |
| Dpp4 | 4.87E-06 | 0.116872055 | 0.353 | 0.229 | 0.048364229 | 6 | 1.541485 |
| mt-Nd5 | 4.96E-06 | 0.156209095 | 0.705 | 0.605 | 0.049331681 | 6 | 1.165289 |
| Glipr1 | 5.02E-06 | 0.0828925 | 0.335 | 0.237 | 0.049940525 | 6 | 1.413502 |
| Mrpl54 | 5.19E-06 | 0.091574442 | 0.554 | 0.465 | 0.051606644 | 6 | 1.191398 |
| Zmym5 | 5.36E-06 | 0.078117148 | 0.272 | 0.173 | 0.05329759 | 6 | 1.572254 |
| Ccm2 | 5.38E-06 | 0.041542081 | 0.513 | 0.415 | 0.053498107 | 6 | 1.236145 |
| Tmem208 | 5.40E-06 | 0.149167934 | 0.482 | 0.339 | 0.053680207 | 6 | 1.421829 |
| Mthfd2 | 5.50E-06 | 0.124654619 | 0.348 | 0.225 | 0.05464343 | 6 | 1.546667 |
| Csnk1d | 5.50E-06 | 0.023750125 | 0.268 | 0.199 | 0.054682764 | 6 | 1.346734 |
| Tmem128 | 5.52E-06 | 0.074480897 | 0.344 | 0.242 | 0.054887706 | 6 | 1.421488 |
| Prkcsh | 5.57E-06 | 0.055718085 | 0.308 | 0.218 | 0.055380667 | 6 | 1.412844 |
| Uqcrc2 | 5.60E-06 | 0.149121703 | 0.616 | 0.452 | 0.055617916 | 6 | 1.362832 |
| Rbm27 | 5.68E-06 | 0.004231314 | 0.335 | 0.265 | 0.056489209 | 6 | 1.264151 |
| Dcun1d1 | 5.71E-06 | 0.11510999 | 0.317 | 0.204 | 0.056721552 | 6 | 1.553922 |
| Plekha2 | 5.80E-06 | 0.028450344 | 0.308 | 0.231 | 0.057649097 | 6 | 1.333333 |
| Eif4e2 | 5.83E-06 | 0.143351337 | 0.433 | 0.307 | 0.057932617 | 6 | 1.410423 |
| Ssbp4 | 5.95E-06 | 0.175555492 | 0.433 | 0.306 | 0.059165034 | 6 | 1.415033 |
| Rbm6 | 6.04E-06 | 0.01256598 | 0.402 | 0.319 | 0.060061053 | 6 | 1.260188 |
| Josd2 | 6.05E-06 | 0.062977537 | 0.259 | 0.171 | 0.060164883 | 6 | 1.51462 |
| Usf1 | 6.34E-06 | 0.103394925 | 0.272 | 0.165 | 0.062975949 | 6 | 1.648485 |
| Ccdc115 | 6.42E-06 | 0.083381701 | 0.384 | 0.281 | 0.063785343 | 6 | 1.366548 |
| Cd164 | 6.43E-06 | 0.03308817 | 0.348 | 0.263 | 0.063895796 | 6 | 1.323194 |
| Denr | 6.52E-06 | 0.066293985 | 0.5 | 0.389 | 0.064830245 | 6 | 1.285347 |
| Actn4 | 6.56E-06 | 0.108357339 | 0.272 | 0.187 | 0.065218562 | 6 | 1.454545 |
| Ubc | 6.58E-06 | 0.14203731 | 0.464 | 0.336 | 0.06537821 | 6 | 1.380952 |
| Ly6e | 6.72E-06 | 0.051791351 | 0.371 | 0.365 | 0.06676978 | 6 | 1.016438 |
| Tor1aip1 | 6.77E-06 | 0.125783206 | 0.388 | 0.28 | 0.067269003 | 6 | 1.385714 |
| Ghitm | 6.77E-06 | 0.17123529 | 0.554 | 0.419 | 0.067330163 | 6 | 1.322196 |
| Sec61a1 | 6.83E-06 | 0.011540739 | 0.263 | 0.2 | 0.067883933 | 6 | 1.315 |
| Vdac2 | 6.89E-06 | 0.028110783 | 0.683 | 0.565 | 0.068470765 | 6 | 1.20885 |
| Cops8 | 7.08E-06 | 0.014264634 | 0.326 | 0.257 | 0.070387825 | 6 | 1.268482 |
| Mier1 | 7.10E-06 | 0.003049832 | 0.554 | 0.463 | 0.070578217 | 6 | 1.196544 |
| Ubn2 | 7.12E-06 | 0.075801212 | 0.29 | 0.204 | 0.070774811 | 6 | 1.421569 |
| Capza1 | 7.20E-06 | 0.079057336 | 0.518 | 0.401 | 0.071519695 | 6 | 1.291771 |
| Traf3ip3 | 7.20E-06 | 0.199562043 | 0.643 | 0.514 | 0.071525926 | 6 | 1.250973 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Ly9 | 7.28E-06 | 0.127425872 | 0.496 | 0.353 | 0.072373115 | 6 | 1.405099 |
| Ier3ip1 | 7.29E-06 | 0.072770404 | 0.679 | 0.544 | 0.072500076 | 6 | 1.248162 |
| Rnf115 | 7.30E-06 | 0.150527309 | 0.362 | 0.229 | 0.0725333 | 6 | 1.580786 |
| U2surp | 7.36E-06 | 0.069121251 | 0.54 | 0.418 | 0.073192519 | 6 | 1.291866 |
| Tmem59 | 7.38E-06 | 0.158841592 | 0.732 | 0.595 | 0.07334177 | 6 | 1.230252 |
| Sdhaf2 | 7.38E-06 | 0.081626409 | 0.312 | 0.211 | 0.073385355 | 6 | 1.478673 |
| Glyr1 | 7.46E-06 | 0.049396021 | 0.286 | 0.204 | 0.074121501 | 6 | 1.401961 |
| Sh3bgrl3 | 7.52E-06 | 0.182800639 | 0.982 | 0.969 | 0.074718058 | 6 | 1.013416 |
| Rmnd5b | 7.56E-06 | 0.093887887 | 0.29 | 0.197 | 0.075148697 | 6 | 1.472081 |
| Khdrbs1 | 7.58E-06 | 0.154231434 | 0.696 | 0.56 | 0.075308607 | 6 | 1.242857 |
| Tkt | 7.59E-06 | 0.051676847 | 0.5 | 0.394 | 0.07544203 | 6 | 1.269036 |
| Ndufa8 | 7.60E-06 | 0.093550588 | 0.674 | 0.551 | 0.075497808 | 6 | 1.22323 |
| Dph3 | 7.72E-06 | 0.063680977 | 0.366 | 0.262 | 0.076744011 | 6 | 1.396947 |
| Atf1 | 7.76E-06 | 0.108888457 | 0.263 | 0.158 | 0.077175278 | 6 | 1.664557 |
| Mpdu1 | 7.80E-06 | 0.122278467 | 0.259 | 0.146 | 0.07756606 | 6 | 1.773973 |
| Snrnp27 | 7.81E-06 | 0.151873873 | 0.482 | 0.358 | 0.077583251 | 6 | 1.346369 |
| Aco2 | 8.03E-06 | 0.071413702 | 0.308 | 0.215 | 0.079810909 | 6 | 1.432558 |
| Vps35 | 8.21E-06 | 0.088317358 | 0.353 | 0.242 | 0.081628198 | 6 | 1.458678 |
| Fundc2 | 8.27E-06 | 0.149440994 | 0.473 | 0.365 | 0.082227095 | 6 | 1.29589 |
| Vgll4 | 8.38E-06 | 0.027639171 | 0.469 | 0.389 | 0.083333615 | 6 | 1.205656 |
| Zfp148 | 8.51E-06 | 0.025435276 | 0.317 | 0.24 | 0.084568765 | 6 | 1.320833 |
| Eif4e | 8.74E-06 | 0.01152974 | 0.362 | 0.291 | 0.08689161 | 6 | 1.243986 |
| Uso1 | 9.35E-06 | 0.128915904 | 0.299 | 0.18 | 0.092983601 | 6 | 1.661111 |
| Senp7 | 9.39E-06 | 0.018531433 | 0.277 | 0.209 | 0.093323853 | 6 | 1.325359 |
| Ppm1b | 9.43E-06 | 0.131673448 | 0.304 | 0.195 | 0.093770827 | 6 | 1.558974 |
| Cript | 9.49E-06 | 0.009833895 | 0.424 | 0.365 | 0.094312218 | 6 | 1.161644 |
| Acin1 | 9.61E-06 | 0.157484269 | 0.612 | 0.449 | 0.095559248 | 6 | 1.363029 |
| 0610030E20Rik | 9.65E-06 | 0.082496553 | 0.344 | 0.263 | 0.095878903 | 6 | 1.307985 |
| Keap1 | 9.78E-06 | 0.128201567 | 0.33 | 0.243 | 0.097252331 | 6 | 1.358025 |
| Dap3 | 9.80E-06 | 0.121369348 | 0.379 | 0.271 | 0.0974548 | 6 | 1.398524 |
| Pdia6 | 9.86E-06 | 0.185812688 | 0.54 | 0.372 | 0.098042494 | 6 | 1.451613 |
| Phf20l1 | 9.90E-06 | 0.163753154 | 0.482 | 0.4 | 0.098448107 | 6 | 1.205 |
| 05-Mar | 9.93E-06 | 0.075994213 | 0.312 | 0.217 | 0.09865719 | 6 | 1.437788 |
| Btf3l4 | 9.95E-06 | 0.033384181 | 0.335 | 0.26 | 0.098929275 | 6 | 1.288462 |
| Mrpl41 | 1.01E-05 | 0.068015609 | 0.411 | 0.3 | 0.099957969 | 6 | 1.37 |
| Flna | 1.02E-05 | 0.071375259 | 0.424 | 0.324 | 0.10141943 | 6 | 1.308642 |
| Ube2s | 1.04E-05 | 0.050355122 | 0.487 | 0.4 | 0.103169493 | 6 | 1.2175 |
| Crip1 | 1.04E-05 | 0.224086661 | 0.571 | 0.562 | 0.103602548 | 6 | 1.016014 |
| Il27ra | 1.05E-05 | 0.08250946 | 0.438 | 0.321 | 0.104493921 | 6 | 1.364486 |
| Ino80e | 1.06E-05 | 0.011855451 | 0.272 | 0.217 | 0.105138114 | 6 | 1.253456 |
| Aamp | 1.07E-05 | 0.062492397 | 0.536 | 0.42 | 0.106732928 | 6 | 1.27619 |
| Dhx15 | 1.07E-05 | 0.010403214 | 0.321 | 0.25 | 0.106828188 | 6 | 1.284 |
| Fip1l1 | 1.10E-05 | 0.119855872 | 0.478 | 0.334 | 0.109306439 | 6 | 1.431138 |
| Mrpl52 | 1.11E-05 | 0.193633144 | 0.768 | 0.669 | 0.110514105 | 6 | 1.147982 |
| Nrbf2 | 1.12E-05 | 0.058795467 | 0.268 | 0.181 | 0.111395537 | 6 | 1.480663 |
| Mien1 | 1.13E-05 | 0.091075225 | 0.616 | 0.477 | 0.112662343 | 6 | 1.291405 |
| Agpat3 | 1.14E-05 | 0.132941234 | 0.321 | 0.212 | 0.113566215 | 6 | 1.514151 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Mia3 | 1.15E-05 | 0.145295926 | 0.357 | 0.244 | 0.113948042 | 6 | 1.463115 |
| Copa | 1.15E-05 | 0.118736658 | 0.304 | 0.218 | 0.114563869 | 6 | 1.394495 |
| Bud31 | 1.17E-05 | 0.129953325 | 0.531 | 0.42 | 0.116238388 | 6 | 1.264286 |
| Commd2 | 1.19E-05 | 0.051242639 | 0.317 | 0.241 | 0.118748436 | 6 | 1.315353 |
| Orai2 | 1.20E-05 | 0.09230222 | 0.295 | 0.209 | 0.119041366 | 6 | 1.411483 |
| Fam103a1 | 1.21E-05 | 0.122078525 | 0.487 | 0.341 | 0.120451048 | 6 | 1.428152 |
| Pigyl | 1.21E-05 | 0.107183777 | 0.29 | 0.188 | 0.120567563 | 6 | 1.542553 |
| Trim28 | 1.22E-05 | 0.044470746 | 0.317 | 0.24 | 0.120922739 | 6 | 1.320833 |
| Wdr26 | 1.23E-05 | 0.167973411 | 0.295 | 0.172 | 0.121879202 | 6 | 1.715116 |
| Mbnl1 | 1.23E-05 | 0.190488297 | 0.938 | 0.875 | 0.122038057 | 6 | 1.072 |
| Pdcd4 | 1.23E-05 | 0.162407924 | 0.884 | 0.786 | 0.122301136 | 6 | 1.124682 |
| Mrfap1 | 1.24E-05 | 0.162463479 | 0.643 | 0.516 | 0.122816611 | 6 | 1.246124 |
| Uba2 | 1.26E-05 | 0.092352949 | 0.388 | 0.302 | 0.124794797 | 6 | 1.284768 |
| Tmem30a | 1.29E-05 | 0.089223538 | 0.304 | 0.201 | 0.127845695 | 6 | 1.512438 |
| Flii | 1.30E-05 | 0.093637989 | 0.259 | 0.172 | 0.129473248 | 6 | 1.505814 |
| Ralbp1 | 1.30E-05 | 0.157221012 | 0.545 | 0.389 | 0.129511598 | 6 | 1.401028 |
| Stoml2 | 1.35E-05 | 0.0315703 | 0.304 | 0.23 | 0.134052973 | 6 | 1.321739 |
| Prpf40a | 1.36E-05 | 0.169599056 | 0.688 | 0.529 | 0.135288186 | 6 | 1.300567 |
| Ndufa1 | 1.36E-05 | 0.194368033 | 0.75 | 0.646 | 0.135350864 | 6 | 1.160991 |
| Cops5 | 1.36E-05 | 0.056794667 | 0.348 | 0.254 | 0.135569034 | 6 | 1.370079 |
| Spcs1 | 1.37E-05 | 0.159839133 | 0.812 | 0.667 | 0.136202514 | 6 | 1.217391 |
| Ddx52 | 1.37E-05 | 0.126066437 | 0.33 | 0.212 | 0.136223551 | 6 | 1.556604 |
| Ogfr | 1.38E-05 | 0.061149316 | 0.33 | 0.233 | 0.137128292 | 6 | 1.416309 |
| Ngdn | 1.38E-05 | 0.008865154 | 0.415 | 0.339 | 0.137503332 | 6 | 1.224189 |
| Oxa1l | 1.38E-05 | 0.075312524 | 0.277 | 0.199 | 0.137535458 | 6 | 1.39196 |
| Actl6a | 1.40E-05 | 0.100744424 | 0.415 | 0.292 | 0.138739039 | 6 | 1.421233 |
| Ergic2 | 1.40E-05 | 0.090520646 | 0.286 | 0.2 | 0.13962547 | 6 | 1.43 |
| Eif4g1 | 1.41E-05 | 0.005798903 | 0.455 | 0.373 | 0.140011647 | 6 | 1.219839 |
| Pycard | 1.42E-05 | 0.202692659 | 0.777 | 0.636 | 0.141609126 | 6 | 1.221698 |
| Ubxn4 | 1.44E-05 | 0.150703686 | 0.567 | 0.43 | 0.142892157 | 6 | 1.318605 |
| Prpf31 | 1.45E-05 | 0.011199772 | 0.304 | 0.244 | 0.144489159 | 6 | 1.245902 |
| Ccdc124 | 1.47E-05 | 0.037596077 | 0.402 | 0.311 | 0.146418988 | 6 | 1.292605 |
| Ppil2 | 1.47E-05 | 0.043949175 | 0.393 | 0.296 | 0.146472471 | 6 | 1.327703 |
| Mrps18a | 1.48E-05 | 0.019972078 | 0.326 | 0.263 | 0.14676023 | 6 | 1.239544 |
| Suclg1 | 1.49E-05 | 0.103156974 | 0.576 | 0.467 | 0.148417218 | 6 | 1.233405 |
| Bre | 1.50E-05 | 0.029611205 | 0.277 | 0.241 | 0.149175065 | 6 | 1.149378 |
| Rbm42 | 1.51E-05 | 0.086650578 | 0.397 | 0.287 | 0.14962581 | 6 | 1.383275 |
| Tespa1 | 1.51E-05 | 0.127163616 | 0.308 | 0.204 | 0.150189448 | 6 | 1.509804 |
| Zfp706 | 1.52E-05 | 0.077666525 | 0.812 | 0.685 | 0.1513913 | 6 | 1.185401 |
| Ppp1cb | 1.53E-05 | 0.082589183 | 0.366 | 0.287 | 0.152263599 | 6 | 1.275261 |
| Il6st | 1.57E-05 | 0.136125673 | 0.371 | 0.241 | 0.15638189 | 6 | 1.539419 |
| Cyba | 1.57E-05 | 0.197653398 | 0.915 | 0.861 | 0.156415659 | 6 | 1.062718 |
| Gngt2 | 1.58E-05 | 0.123473341 | 0.254 | 0.155 | 0.156572821 | 6 | 1.63871 |
| Nrbp1 | 1.60E-05 | 0.079004754 | 0.339 | 0.254 | 0.159179733 | 6 | 1.334646 |
| U2af2 | 1.64E-05 | 0.036160851 | 0.406 | 0.329 | 0.162872329 | 6 | 1.234043 |
| Timm8b | 1.65E-05 | 0.121601543 | 0.455 | 0.315 | 0.164439936 | 6 | 1.444444 |
| Dnm2 | 1.67E-05 | 0.016852812 | 0.371 | 0.302 | 0.165772153 | 6 | 1.228477 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Gatad2a | 1.68E-05 | 0.071855071 | 0.295 | 0.243 | 0.167137306 | 6 | 1.213992 |
| Pigx | 1.68E-05 | 0.120951233 | 0.446 | 0.322 | 0.167455251 | 6 | 1.385093 |
| Mpp1 | 1.69E-05 | 0.164792392 | 0.29 | 0.173 | 0.168113494 | 6 | 1.676301 |
| Tmem173 | 1.69E-05 | 0.151408487 | 0.348 | 0.223 | 0.168246176 | 6 | 1.560538 |
| Pam16 | 1.70E-05 | 0.057823005 | 0.326 | 0.253 | 0.168503281 | 6 | 1.288538 |
| Emc7 | 1.70E-05 | 0.10598718 | 0.42 | 0.309 | 0.168922924 | 6 | 1.359223 |
| Phf3 | 1.72E-05 | 0.126580556 | 0.504 | 0.396 | 0.171333355 | 6 | 1.272727 |
| Lrrfip1 | 1.75E-05 | 0.136593735 | 0.688 | 0.561 | 0.173855024 | 6 | 1.226381 |
| Wapl | 1.75E-05 | 0.109348758 | 0.482 | 0.359 | 0.174209901 | 6 | 1.342618 |
| Syng2 | 1.77E-05 | 0.121466396 | 0.286 | 0.175 | 0.17636173 | 6 | 1.634286 |
| Fam53a | 1.77E-05 | 0.028073898 | 0.295 | 0.222 | 0.17638825 | 6 | 1.328829 |
| Psm10 | 1.78E-05 | 0.090747495 | 0.29 | 0.209 | 0.176525692 | 6 | 1.38756 |
| Atp5j2 | 1.78E-05 | 0.175109997 | 0.938 | 0.871 | 0.17741442 | 6 | 1.076923 |
| Ndufs5 | 1.81E-05 | 0.083783507 | 0.652 | 0.527 | 0.180072214 | 6 | 1.237192 |
| Trabd | 1.86E-05 | 0.1368401 | 0.299 | 0.183 | 0.184619911 | 6 | 1.63388 |
| Ndufv3 | 1.86E-05 | 0.187477413 | 0.812 | 0.681 | 0.18508673 | 6 | 1.192364 |
| Edem2 | 1.87E-05 | 0.10534755 | 0.281 | 0.171 | 0.186254087 | 6 | 1.643275 |
| Timm22 | 1.91E-05 | 0.057519724 | 0.263 | 0.18 | 0.190067155 | 6 | 1.461111 |
| Pdcd5 | 1.96E-05 | 0.089917146 | 0.571 | 0.443 | 0.194765881 | 6 | 1.288939 |
| Mrpl15 | 1.97E-05 | 0.102212411 | 0.429 | 0.316 | 0.196194719 | 6 | 1.357595 |
| Tm2d1 | 2.02E-05 | 0.0756322 | 0.304 | 0.236 | 0.20099519 | 6 | 1.288136 |
| Idh2 | 2.04E-05 | 0.009992923 | 0.277 | 0.214 | 0.202868544 | 6 | 1.294393 |
| Ddost | 2.04E-05 | 0.075220363 | 0.451 | 0.356 | 0.202892652 | 6 | 1.266854 |
| Nmi | 2.06E-05 | 0.015490335 | 0.478 | 0.385 | 0.20446465 | 6 | 1.241558 |
| Acot13 | 2.06E-05 | 0.079958243 | 0.33 | 0.23 | 0.204484623 | 6 | 1.434783 |
| Rpa1 | 2.06E-05 | 0.161887657 | 0.429 | 0.298 | 0.204511677 | 6 | 1.439597 |
| Uqcrrf1 | 2.08E-05 | 0.004075697 | 0.714 | 0.614 | 0.206516978 | 6 | 1.162866 |
| Pgam1 | 2.11E-05 | 0.146467297 | 0.531 | 0.427 | 0.209641141 | 6 | 1.24356 |
| Sbds | 2.14E-05 | 0.05300827 | 0.393 | 0.296 | 0.212758461 | 6 | 1.327703 |
| Ankrd44 | 2.14E-05 | 0.042517487 | 0.527 | 0.457 | 0.213085783 | 6 | 1.153173 |
| Calm2 | 2.16E-05 | 0.115418061 | 0.866 | 0.77 | 0.215020947 | 6 | 1.124675 |
| Thumpd3 | 2.19E-05 | 0.140164035 | 0.353 | 0.242 | 0.217756215 | 6 | 1.458678 |
| Dazap1 | 2.23E-05 | 0.114953978 | 0.487 | 0.37 | 0.221504556 | 6 | 1.316216 |
| Slc1a5 | 2.24E-05 | 0.093507171 | 0.29 | 0.19 | 0.223063226 | 6 | 1.526316 |
| Yipf4 | 2.25E-05 | 0.036233414 | 0.357 | 0.276 | 0.223808775 | 6 | 1.293478 |
| Ywhab | 2.27E-05 | 0.163676629 | 0.679 | 0.524 | 0.22585253 | 6 | 1.295802 |
| Tcea1 | 2.28E-05 | 0.015051597 | 0.406 | 0.327 | 0.226344256 | 6 | 1.24159 |
| Psm11 | 2.30E-05 | 0.1192056 | 0.594 | 0.457 | 0.228569689 | 6 | 1.299781 |
| Fam101b | 2.30E-05 | 0.067884166 | 0.362 | 0.388 | 0.228595252 | 6 | 0.93299 |
| Cdk12 | 2.33E-05 | 0.018287019 | 0.482 | 0.423 | 0.23174009 | 6 | 1.13948 |
| Erp44 | 2.33E-05 | 0.147608695 | 0.415 | 0.272 | 0.231982888 | 6 | 1.525735 |
| Tax1bp1 | 2.35E-05 | 0.151234513 | 0.786 | 0.645 | 0.233704097 | 6 | 1.218605 |
| Relb | 2.36E-05 | 0.15405702 | 0.272 | 0.151 | 0.234614794 | 6 | 1.801325 |
| Arhgef2 | 2.37E-05 | 0.086721039 | 0.272 | 0.183 | 0.235554201 | 6 | 1.486339 |
| mt-Nd3 | 2.40E-05 | 0.13772314 | 0.728 | 0.573 | 0.238352918 | 6 | 1.270506 |
| Hsd1l | 2.44E-05 | 0.152681501 | 0.299 | 0.18 | 0.242095519 | 6 | 1.661111 |
| Aurkaip1 | 2.44E-05 | 0.174456585 | 0.705 | 0.56 | 0.242697753 | 6 | 1.258929 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Psmid1 | 2.45E-05 | 0.098923287 | 0.259 | 0.161 | 0.243351313 | 6 | 1.608696 |
| Ngly1 | 2.45E-05 | 0.033858357 | 0.295 | 0.23 | 0.243946348 | 6 | 1.282609 |
| Lman2 | 2.49E-05 | 0.123868295 | 0.562 | 0.431 | 0.247059606 | 6 | 1.303944 |
| Cdc123 | 2.49E-05 | 0.078770515 | 0.326 | 0.236 | 0.247586033 | 6 | 1.381356 |
| Lage3 | 2.53E-05 | 0.070226899 | 0.397 | 0.302 | 0.251780016 | 6 | 1.31457 |
| Ppil4 | 2.54E-05 | 0.039425339 | 0.451 | 0.363 | 0.252802794 | 6 | 1.242424 |
| Nans | 2.57E-05 | 0.120383107 | 0.451 | 0.326 | 0.255134467 | 6 | 1.383436 |
| Hnrnpr | 2.58E-05 | 0.102083175 | 0.688 | 0.539 | 0.255992858 | 6 | 1.276438 |
| Tsn | 2.58E-05 | 0.114375159 | 0.656 | 0.512 | 0.256459913 | 6 | 1.28125 |
| Raly | 2.60E-05 | 0.191917116 | 0.759 | 0.627 | 0.258245732 | 6 | 1.210526 |
| Ifnar2 | 2.60E-05 | 0.113238631 | 0.268 | 0.166 | 0.258669944 | 6 | 1.614458 |
| Apopt1 | 2.60E-05 | 0.056182237 | 0.317 | 0.226 | 0.258689902 | 6 | 1.402655 |
| Irf2bpl | 2.62E-05 | 0.0866056 | 0.438 | 0.329 | 0.260443785 | 6 | 1.331307 |
| Amz2 | 2.63E-05 | 0.163820163 | 0.259 | 0.141 | 0.261230069 | 6 | 1.836879 |
| Itgb1bp1 | 2.65E-05 | 0.076060482 | 0.366 | 0.266 | 0.263572853 | 6 | 1.37594 |
| Fermt3 | 2.67E-05 | 0.079589134 | 0.487 | 0.37 | 0.265671155 | 6 | 1.316216 |
| Cct3 | 2.68E-05 | 0.009918979 | 0.616 | 0.527 | 0.266407151 | 6 | 1.16888 |
| Ube2a | 2.69E-05 | 0.126871543 | 0.429 | 0.294 | 0.26698264 | 6 | 1.459184 |
| Hnrnpu | 2.69E-05 | 0.012577544 | 0.674 | 0.568 | 0.267005888 | 6 | 1.18662 |
| Atp5g3 | 2.71E-05 | 0.174134452 | 0.853 | 0.724 | 0.268955181 | 6 | 1.178177 |
| Pdrg1 | 2.71E-05 | 0.113753428 | 0.46 | 0.339 | 0.269428593 | 6 | 1.356932 |
| Tm2d3 | 2.72E-05 | 0.058501357 | 0.304 | 0.214 | 0.270616126 | 6 | 1.420561 |
| Tcf25 | 2.73E-05 | 0.17261575 | 0.696 | 0.558 | 0.271325329 | 6 | 1.247312 |
| Arf3 | 2.73E-05 | 0.112616698 | 0.317 | 0.214 | 0.271444321 | 6 | 1.481308 |
| Mdp1 | 2.73E-05 | 0.121166033 | 0.464 | 0.33 | 0.271817529 | 6 | 1.406061 |
| Adipor1 | 2.76E-05 | 0.057510197 | 0.406 | 0.318 | 0.274131135 | 6 | 1.27673 |
| Bax | 2.78E-05 | 0.080914513 | 0.656 | 0.53 | 0.276333044 | 6 | 1.237736 |
| Rassf5 | 2.92E-05 | 0.148199131 | 0.638 | 0.482 | 0.289909871 | 6 | 1.323651 |
| Arid5b | 2.93E-05 | 0.153837849 | 0.295 | 0.179 | 0.291271129 | 6 | 1.648045 |
| Twf2 | 2.93E-05 | 0.138539059 | 0.513 | 0.407 | 0.291382295 | 6 | 1.260442 |
| Exoc3 | 2.93E-05 | 0.084909351 | 0.312 | 0.21 | 0.291693369 | 6 | 1.485714 |
| Atp6v1c1 | 2.95E-05 | 0.120412388 | 0.299 | 0.185 | 0.293414968 | 6 | 1.616216 |
| Cdc26 | 3.00E-05 | 0.086550452 | 0.442 | 0.338 | 0.298509222 | 6 | 1.307692 |
| Maz | 3.01E-05 | 0.140583801 | 0.304 | 0.186 | 0.298754871 | 6 | 1.634409 |
| Fam96b | 3.01E-05 | 0.083192034 | 0.384 | 0.282 | 0.29943557 | 6 | 1.361702 |
| H2-M3 | 3.01E-05 | 0.061006251 | 0.321 | 0.255 | 0.299676199 | 6 | 1.258824 |
| Cdc5l | 3.04E-05 | 0.052829545 | 0.438 | 0.333 | 0.30222769 | 6 | 1.315315 |
| Edem1 | 3.05E-05 | 0.116234778 | 0.299 | 0.194 | 0.302765116 | 6 | 1.541237 |
| Psmid4 | 3.08E-05 | 0.116943944 | 0.728 | 0.604 | 0.305802265 | 6 | 1.205298 |
| Ssb | 3.08E-05 | 0.184369216 | 0.804 | 0.685 | 0.306006131 | 6 | 1.173723 |
| B4galt1 | 3.10E-05 | 0.085074879 | 0.299 | 0.202 | 0.307726919 | 6 | 1.480198 |
| Tbc1d10c | 3.10E-05 | 0.1660904 | 0.777 | 0.649 | 0.307728523 | 6 | 1.197227 |
| Eif3b | 3.10E-05 | 0.025118651 | 0.402 | 0.319 | 0.308056378 | 6 | 1.260188 |
| Gpr174 | 3.17E-05 | 0.047727311 | 0.272 | 0.192 | 0.314755846 | 6 | 1.416667 |
| Ddx42 | 3.18E-05 | 0.01172208 | 0.366 | 0.294 | 0.31569302 | 6 | 1.244898 |
| Sash3 | 3.19E-05 | 0.104901129 | 0.464 | 0.34 | 0.316661602 | 6 | 1.364706 |
| Cpsf3l | 3.22E-05 | 0.094950049 | 0.295 | 0.197 | 0.320150923 | 6 | 1.497462 |

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|-----------|----------|-------------|-------|-------|-------------|---|----------|
| Mrpl18 | 3.23E-05 | 0.053871992 | 0.576 | 0.528 | 0.320585232 | 6 | 1.090909 |
| Metap2 | 3.23E-05 | 0.094261842 | 0.589 | 0.454 | 0.32131375 | 6 | 1.297357 |
| Minos1 | 3.25E-05 | 0.164326051 | 0.879 | 0.786 | 0.322905534 | 6 | 1.118321 |
| Ric8 | 3.26E-05 | 0.083853557 | 0.299 | 0.207 | 0.324167112 | 6 | 1.444444 |
| Api5 | 3.27E-05 | 0.028504074 | 0.299 | 0.23 | 0.325365559 | 6 | 1.3 |
| Tmem251 | 3.32E-05 | 0.002398641 | 0.277 | 0.22 | 0.329549729 | 6 | 1.259091 |
| Cd226 | 3.34E-05 | 0.139512265 | 0.259 | 0.158 | 0.332165505 | 6 | 1.639241 |
| Usf2 | 3.35E-05 | 0.002562312 | 0.384 | 0.32 | 0.332749841 | 6 | 1.2 |
| Gpr171 | 3.36E-05 | 0.130569533 | 0.281 | 0.164 | 0.333639865 | 6 | 1.713415 |
| Fam96a | 3.36E-05 | 0.112979941 | 0.531 | 0.417 | 0.334401845 | 6 | 1.273381 |
| Sms | 3.38E-05 | 0.1026859 | 0.438 | 0.312 | 0.335794206 | 6 | 1.403846 |
| Hint3 | 3.40E-05 | 0.106759423 | 0.286 | 0.185 | 0.337692808 | 6 | 1.545946 |
| Gpsm3 | 3.40E-05 | 0.179281461 | 0.857 | 0.744 | 0.338003216 | 6 | 1.151882 |
| Sod1 | 3.41E-05 | 0.12110246 | 0.295 | 0.184 | 0.339379476 | 6 | 1.603261 |
| Phpt1 | 3.43E-05 | 0.079207337 | 0.295 | 0.197 | 0.341025022 | 6 | 1.497462 |
| Ngrn | 3.46E-05 | 0.023736306 | 0.277 | 0.212 | 0.34375818 | 6 | 1.306604 |
| Pin4 | 3.46E-05 | 0.046432935 | 0.379 | 0.302 | 0.344097517 | 6 | 1.254967 |
| Trim12c | 3.47E-05 | 0.053300185 | 0.371 | 0.273 | 0.345350077 | 6 | 1.358974 |
| Ube2r2 | 3.49E-05 | 0.128020601 | 0.362 | 0.241 | 0.347210818 | 6 | 1.502075 |
| Chd6 | 3.51E-05 | 0.064586872 | 0.29 | 0.215 | 0.348620867 | 6 | 1.348837 |
| Mrpl11 | 3.55E-05 | 0.031169791 | 0.312 | 0.247 | 0.352717011 | 6 | 1.263158 |
| Psmc2 | 3.55E-05 | 0.154648937 | 0.5 | 0.355 | 0.353121046 | 6 | 1.408451 |
| Akap8l | 3.57E-05 | 0.04143148 | 0.286 | 0.214 | 0.354504802 | 6 | 1.336449 |
| Arpc5 | 3.65E-05 | 0.175613831 | 0.924 | 0.857 | 0.363063002 | 6 | 1.07818 |
| Lasp1 | 3.76E-05 | 0.105463382 | 0.295 | 0.193 | 0.373422889 | 6 | 1.528497 |
| Helz | 3.77E-05 | 0.097061697 | 0.326 | 0.215 | 0.37447123 | 6 | 1.516279 |
| Atp6v0e | 3.80E-05 | 0.151046314 | 0.875 | 0.775 | 0.377332207 | 6 | 1.129032 |
| Smarce1 | 3.81E-05 | 0.075357239 | 0.433 | 0.324 | 0.378854216 | 6 | 1.33642 |
| Gm12166 | 3.83E-05 | 0.007223139 | 0.393 | 0.322 | 0.38091687 | 6 | 1.220497 |
| Sf3a2 | 3.84E-05 | 0.029411587 | 0.268 | 0.213 | 0.382058881 | 6 | 1.258216 |
| Psmc5 | 3.86E-05 | 0.103952339 | 0.527 | 0.412 | 0.383555396 | 6 | 1.279126 |
| Wnk1 | 3.89E-05 | 0.067944601 | 0.589 | 0.461 | 0.386278373 | 6 | 1.277657 |
| Ergic3 | 3.91E-05 | 0.098669934 | 0.353 | 0.249 | 0.388195524 | 6 | 1.417671 |
| Sp140 | 3.99E-05 | 0.138505631 | 0.321 | 0.21 | 0.396658611 | 6 | 1.528571 |
| Bnip3l | 4.00E-05 | 0.102742153 | 0.75 | 0.611 | 0.397237099 | 6 | 1.227496 |
| Slu7 | 4.03E-05 | 0.01838627 | 0.304 | 0.24 | 0.400221243 | 6 | 1.266667 |
| Polr1c | 4.05E-05 | 0.035456891 | 0.321 | 0.245 | 0.403063794 | 6 | 1.310204 |
| Mrpl32 | 4.07E-05 | 0.047720966 | 0.379 | 0.296 | 0.40425122 | 6 | 1.280405 |
| Arid4b | 4.10E-05 | 0.019178718 | 0.478 | 0.396 | 0.407261935 | 6 | 1.207071 |
| Nktr | 4.14E-05 | 0.059941529 | 0.634 | 0.52 | 0.411865263 | 6 | 1.219231 |
| Gatad2b | 4.15E-05 | 0.028117085 | 0.388 | 0.304 | 0.412685735 | 6 | 1.276316 |
| Cdc42 | 4.18E-05 | 0.162263786 | 0.955 | 0.882 | 0.415216862 | 6 | 1.082766 |
| Crot | 4.28E-05 | 0.105616822 | 0.268 | 0.178 | 0.425156588 | 6 | 1.505618 |
| Yipf3 | 4.29E-05 | 0.086721932 | 0.326 | 0.23 | 0.425940034 | 6 | 1.417391 |
| Tia1 | 4.44E-05 | 0.101633143 | 0.406 | 0.3 | 0.440847133 | 6 | 1.353333 |
| Trpm7 | 4.48E-05 | 0.030065501 | 0.29 | 0.216 | 0.445475706 | 6 | 1.342593 |
| Nipsnap3b | 4.49E-05 | 0.010666165 | 0.281 | 0.247 | 0.44642318 | 6 | 1.137652 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Ncaph2 | 4.50E-05 | 0.087444438 | 0.326 | 0.227 | 0.447070428 | 6 | 1.436123 |
| 2510002D24Rik | 4.50E-05 | 0.028200956 | 0.393 | 0.309 | 0.447363788 | 6 | 1.271845 |
| Ap1s1 | 4.59E-05 | 0.135912354 | 0.295 | 0.175 | 0.455949835 | 6 | 1.685714 |
| Vav1 | 4.65E-05 | 0.047910628 | 0.357 | 0.271 | 0.462083412 | 6 | 1.317343 |
| Chd4 | 4.67E-05 | 0.104372804 | 0.705 | 0.572 | 0.463988367 | 6 | 1.232517 |
| Spint2 | 4.76E-05 | 0.138299065 | 0.549 | 0.444 | 0.473090902 | 6 | 1.236486 |
| Papola | 4.84E-05 | 0.041084594 | 0.567 | 0.463 | 0.481245133 | 6 | 1.224622 |
| Snx4 | 4.90E-05 | 0.038969653 | 0.33 | 0.266 | 0.486769761 | 6 | 1.240602 |
| Ctse | 4.95E-05 | 0.061308649 | 0.478 | 0.402 | 0.491853075 | 6 | 1.189055 |
| Sh3glb1 | 4.95E-05 | 0.1469899 | 0.638 | 0.481 | 0.492244661 | 6 | 1.326403 |
| Cep57 | 4.96E-05 | 0.109024626 | 0.286 | 0.177 | 0.492528865 | 6 | 1.615819 |
| Tln1 | 4.99E-05 | 0.168506897 | 0.808 | 0.68 | 0.495524203 | 6 | 1.188235 |
| Mocs2 | 5.04E-05 | 0.043695735 | 0.259 | 0.189 | 0.501395768 | 6 | 1.37037 |
| Mlf2 | 5.13E-05 | 0.064982468 | 0.393 | 0.294 | 0.509791535 | 6 | 1.336735 |
| Zfos1 | 5.15E-05 | 0.150627153 | 0.571 | 0.493 | 0.512079652 | 6 | 1.158215 |
| Cndp2 | 5.17E-05 | 0.085101792 | 0.259 | 0.168 | 0.514141658 | 6 | 1.541667 |
| Slc25a4 | 5.23E-05 | 0.17282111 | 0.786 | 0.661 | 0.520344812 | 6 | 1.189107 |
| 1700097N02Rik | 5.25E-05 | 0.055715282 | 0.29 | 0.223 | 0.521969377 | 6 | 1.300448 |
| Eml4 | 5.26E-05 | 0.156668912 | 0.415 | 0.289 | 0.522510759 | 6 | 1.435986 |
| Smarca2 | 5.28E-05 | 0.052225532 | 0.339 | 0.251 | 0.524501298 | 6 | 1.350598 |
| Sdhb | 5.29E-05 | 0.160927553 | 0.71 | 0.554 | 0.526171948 | 6 | 1.281588 |
| Cdk13 | 5.30E-05 | 0.055217087 | 0.254 | 0.18 | 0.527276492 | 6 | 1.411111 |
| Acap1 | 5.31E-05 | 0.106725115 | 0.536 | 0.409 | 0.527965109 | 6 | 1.310513 |
| Slc25a11 | 5.33E-05 | 0.047627165 | 0.446 | 0.353 | 0.530246313 | 6 | 1.263456 |
| Rbm3 | 5.35E-05 | 0.163577207 | 0.978 | 0.951 | 0.531355847 | 6 | 1.028391 |
| Hddc2 | 5.35E-05 | 0.004491077 | 0.317 | 0.256 | 0.531875704 | 6 | 1.238281 |
| Ocel1 | 5.45E-05 | 0.078945765 | 0.254 | 0.168 | 0.541922016 | 6 | 1.511905 |
| Txn1 | 5.46E-05 | 0.115247841 | 0.429 | 0.308 | 0.542974121 | 6 | 1.392857 |
| Baz1a | 5.63E-05 | 0.130656581 | 0.308 | 0.191 | 0.559558995 | 6 | 1.612565 |
| Matr3 | 5.63E-05 | 0.026047804 | 0.603 | 0.496 | 0.559996847 | 6 | 1.215726 |
| Rps27l | 5.66E-05 | 0.157473055 | 0.75 | 0.673 | 0.562230639 | 6 | 1.114413 |
| Mat2b | 5.70E-05 | 0.141562433 | 0.679 | 0.53 | 0.566674006 | 6 | 1.281132 |
| Mrps16 | 5.70E-05 | 0.143975744 | 0.589 | 0.464 | 0.566909787 | 6 | 1.269397 |
| Arhgap30 | 5.73E-05 | 0.032807822 | 0.665 | 0.564 | 0.569704854 | 6 | 1.179078 |
| Arglu1 | 5.81E-05 | 0.063313704 | 0.585 | 0.487 | 0.577176651 | 6 | 1.201232 |
| Pecam1 | 5.96E-05 | 0.083616403 | 0.473 | 0.353 | 0.592061207 | 6 | 1.339943 |
| Ncoa7 | 5.99E-05 | 0.172409641 | 0.263 | 0.142 | 0.595452343 | 6 | 1.852113 |
| Snf8 | 6.02E-05 | 0.143925573 | 0.455 | 0.33 | 0.59829658 | 6 | 1.378788 |
| Rala | 6.08E-05 | 0.028003407 | 0.371 | 0.299 | 0.604797861 | 6 | 1.240803 |
| Ywhae | 6.12E-05 | 0.154054567 | 0.674 | 0.533 | 0.607953901 | 6 | 1.26454 |
| Ssrp1 | 6.13E-05 | 0.024964851 | 0.491 | 0.441 | 0.609395247 | 6 | 1.113379 |
| I7Rn6 | 6.18E-05 | 0.005688996 | 0.29 | 0.249 | 0.614448724 | 6 | 1.164659 |
| Ap3b1 | 6.23E-05 | 0.100948886 | 0.263 | 0.162 | 0.618844792 | 6 | 1.623457 |
| Bbip1 | 6.25E-05 | 0.166359908 | 0.371 | 0.245 | 0.621645432 | 6 | 1.514286 |
| Ubn1 | 6.26E-05 | 0.109885514 | 0.429 | 0.312 | 0.622177178 | 6 | 1.375 |
| Ewsr1 | 6.28E-05 | 0.149517704 | 0.656 | 0.519 | 0.624234157 | 6 | 1.263969 |
| Ufd1l | 6.31E-05 | 0.150121274 | 0.29 | 0.171 | 0.626955804 | 6 | 1.695906 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Atp6ap1 | 6.33E-05 | 0.130213746 | 0.326 | 0.22 | 0.629515741 | 6 | 1.481818 |
| Nemf | 6.36E-05 | 0.127026153 | 0.393 | 0.269 | 0.632578305 | 6 | 1.460967 |
| Synj2bp | 6.40E-05 | 0.073554903 | 0.335 | 0.251 | 0.636176648 | 6 | 1.334661 |
| Ctnnbl1 | 6.50E-05 | 0.048067668 | 0.339 | 0.253 | 0.646295224 | 6 | 1.339921 |
| Dock8 | 6.51E-05 | 0.073810263 | 0.308 | 0.231 | 0.647337652 | 6 | 1.333333 |
| Acap2 | 6.61E-05 | 0.141270091 | 0.295 | 0.175 | 0.656648437 | 6 | 1.685714 |
| Clcn4 | 6.61E-05 | 0.129353868 | 0.254 | 0.156 | 0.657417589 | 6 | 1.628205 |
| Smarcc1 | 6.62E-05 | 0.117457518 | 0.362 | 0.243 | 0.6584756 | 6 | 1.489712 |
| Caprin1 | 6.64E-05 | 0.036546234 | 0.438 | 0.348 | 0.659627139 | 6 | 1.258621 |
| Bmyc | 6.68E-05 | 0.083322742 | 0.308 | 0.226 | 0.663907781 | 6 | 1.362832 |
| Was | 6.78E-05 | 0.066480161 | 0.442 | 0.365 | 0.674210063 | 6 | 1.210959 |
| H13 | 6.90E-05 | 0.129497692 | 0.585 | 0.437 | 0.685721073 | 6 | 1.338673 |
| Mllt3 | 6.95E-05 | 0.158943216 | 0.393 | 0.277 | 0.690372848 | 6 | 1.418773 |
| Qars | 6.98E-05 | 0.088929703 | 0.304 | 0.214 | 0.693935657 | 6 | 1.420561 |
| Pym1 | 7.00E-05 | 0.050647993 | 0.509 | 0.401 | 0.695361567 | 6 | 1.269327 |
| Hadh | 7.00E-05 | 0.100676587 | 0.29 | 0.205 | 0.695480701 | 6 | 1.414634 |
| Apbb1ip | 7.01E-05 | 0.000492919 | 0.71 | 0.622 | 0.696671131 | 6 | 1.141479 |
| Dnaja2 | 7.01E-05 | 0.080359414 | 0.616 | 0.506 | 0.69714904 | 6 | 1.217391 |
| Mrps7 | 7.09E-05 | 0.026121002 | 0.263 | 0.219 | 0.704343235 | 6 | 1.200913 |
| Manf | 7.16E-05 | 0.118551706 | 0.67 | 0.542 | 0.711983933 | 6 | 1.236162 |
| Dip2b | 7.54E-05 | 0.119133173 | 0.254 | 0.158 | 0.749583543 | 6 | 1.607595 |
| Acsf5 | 7.57E-05 | 0.097247818 | 0.362 | 0.256 | 0.751977635 | 6 | 1.414063 |
| Bag1 | 7.74E-05 | 0.085818551 | 0.558 | 0.438 | 0.769662738 | 6 | 1.273973 |
| Wbp11 | 7.76E-05 | 0.007241157 | 0.429 | 0.373 | 0.77115946 | 6 | 1.150134 |
| Crebbp | 7.80E-05 | 0.017116727 | 0.335 | 0.264 | 0.775297019 | 6 | 1.268939 |
| Tmem219 | 7.81E-05 | 0.067307541 | 0.29 | 0.207 | 0.776755555 | 6 | 1.400966 |
| Tpp2 | 7.84E-05 | 0.058940958 | 0.348 | 0.256 | 0.778799572 | 6 | 1.359375 |
| Ppib | 7.95E-05 | 0.164488411 | 0.875 | 0.765 | 0.789916323 | 6 | 1.143791 |
| Iws1 | 7.97E-05 | 0.111234363 | 0.335 | 0.227 | 0.791844694 | 6 | 1.475771 |
| Tnik | 8.02E-05 | 0.094304402 | 0.433 | 0.335 | 0.797641887 | 6 | 1.292537 |
| Arhgdia | 8.17E-05 | 0.055086683 | 0.83 | 0.711 | 0.811801551 | 6 | 1.16737 |
| Rab7 | 8.17E-05 | 0.099629839 | 0.585 | 0.452 | 0.812538322 | 6 | 1.294248 |
| Polr2k | 8.18E-05 | 0.038953239 | 0.478 | 0.387 | 0.812668554 | 6 | 1.235142 |
| Ctsz | 8.18E-05 | 0.066000233 | 0.277 | 0.203 | 0.812793197 | 6 | 1.364532 |
| Iscu | 8.24E-05 | 0.020302704 | 0.415 | 0.335 | 0.819423917 | 6 | 1.238806 |
| Ak2 | 8.25E-05 | 0.073801124 | 0.402 | 0.297 | 0.819639476 | 6 | 1.353535 |
| Hnrnp1 | 8.33E-05 | 0.019946254 | 0.54 | 0.468 | 0.82829309 | 6 | 1.153846 |
| Bccip | 8.38E-05 | 0.010839893 | 0.455 | 0.376 | 0.832780484 | 6 | 1.210106 |
| Ube2h | 8.41E-05 | 0.1191396 | 0.286 | 0.202 | 0.835476292 | 6 | 1.415842 |
| Supt5 | 8.44E-05 | 0.039680452 | 0.29 | 0.245 | 0.839091536 | 6 | 1.183673 |
| Trappc2l | 8.53E-05 | 0.13923642 | 0.455 | 0.329 | 0.847901662 | 6 | 1.382979 |
| Psm3 | 8.59E-05 | 0.046714419 | 0.344 | 0.263 | 0.853606624 | 6 | 1.307985 |
| Mrps24 | 8.60E-05 | 0.015855549 | 0.647 | 0.561 | 0.855110082 | 6 | 1.153298 |
| Zfp330 | 8.66E-05 | 0.112548658 | 0.277 | 0.175 | 0.860309384 | 6 | 1.582857 |
| Fundc1 | 8.74E-05 | 0.065329901 | 0.259 | 0.185 | 0.868918178 | 6 | 1.4 |
| Polr2a | 8.77E-05 | 0.086583976 | 0.254 | 0.179 | 0.871386247 | 6 | 1.418994 |
| Atf7ip | 8.82E-05 | 0.05860547 | 0.455 | 0.403 | 0.876522177 | 6 | 1.129032 |

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|---------------|-------------|-------------|-------|-------|-------------|---|----------|
| 0610010K14Rik | 8.87E-05 | 0.031225179 | 0.348 | 0.28 | 0.881495953 | 6 | 1.242857 |
| Ppp4c | 8.94E-05 | 0.038121802 | 0.603 | 0.5 | 0.888717336 | 6 | 1.206 |
| Fopnl | 8.95E-05 | 0.085548701 | 0.268 | 0.176 | 0.889485921 | 6 | 1.522727 |
| Nudt16l1 | 8.98E-05 | 0.082198035 | 0.357 | 0.267 | 0.892414689 | 6 | 1.337079 |
| Rasal3 | 9.09E-05 | 0.112660065 | 0.545 | 0.418 | 0.903246339 | 6 | 1.303828 |
| Cmpk1 | 9.13E-05 | 0.094010613 | 0.438 | 0.332 | 0.907811319 | 6 | 1.319277 |
| Mtpn | 9.18E-05 | 0.006023357 | 0.299 | 0.255 | 0.91290015 | 6 | 1.172549 |
| 2700029M09Rik | 9.25E-05 | 0.110082988 | 0.317 | 0.237 | 0.91991923 | 6 | 1.337553 |
| Zcrb1 | 9.28E-05 | 0.036369061 | 0.433 | 0.342 | 0.922100118 | 6 | 1.266082 |
| Kctd10 | 9.31E-05 | 0.039949022 | 0.281 | 0.213 | 0.925724154 | 6 | 1.319249 |
| Bnip2 | 9.33E-05 | 0.072003494 | 0.312 | 0.219 | 0.92737581 | 6 | 1.424658 |
| Eif1b | 9.34E-05 | 0.09842125 | 0.518 | 0.411 | 0.928157988 | 6 | 1.260341 |
| Mta2 | 9.34E-05 | 0.063791258 | 0.321 | 0.239 | 0.928195298 | 6 | 1.343096 |
| Igbp1 | 9.58E-05 | 0.108844397 | 0.429 | 0.327 | 0.951991414 | 6 | 1.311927 |
| Gpatch11 | 9.58E-05 | 0.116722382 | 0.321 | 0.228 | 0.95264141 | 6 | 1.407895 |
| Ltb | 9.63E-05 | 0.176275093 | 0.982 | 0.989 | 0.957483816 | 6 | 0.992922 |
| Rnf6 | 9.67E-05 | 0.070137715 | 0.317 | 0.223 | 0.961158703 | 6 | 1.421525 |
| Ctsa | 9.69E-05 | 0.060597248 | 0.308 | 0.228 | 0.963573341 | 6 | 1.350877 |
| Srp72 | 9.70E-05 | 0.14485503 | 0.482 | 0.35 | 0.964018742 | 6 | 1.377143 |
| Psmc5 | 0.000100488 | 0.136504409 | 0.647 | 0.531 | 0.998846895 | 6 | 1.218456 |
| Vti1b | 0.000100797 | 0.015757572 | 0.375 | 0.31 | 1 | 6 | 1.209677 |
| Krit1 | 0.00010177 | 0.134921155 | 0.652 | 0.515 | 1 | 6 | 1.266019 |
| Ift20 | 0.000102302 | 0.126071145 | 0.424 | 0.301 | 1 | 6 | 1.408638 |
| Dad1 | 0.000102737 | 0.101037366 | 0.857 | 0.742 | 1 | 6 | 1.154987 |
| Pnir | 0.000103372 | 0.138533442 | 0.705 | 0.572 | 1 | 6 | 1.232517 |
| Git2 | 0.000103451 | 0.106682105 | 0.518 | 0.416 | 1 | 6 | 1.245192 |
| Ccnt2 | 0.000103571 | 0.05445403 | 0.339 | 0.286 | 1 | 6 | 1.185315 |
| Atp6ap2 | 0.00010535 | 0.076606853 | 0.281 | 0.198 | 1 | 6 | 1.419192 |
| Dhx36 | 0.000105959 | 0.093601223 | 0.344 | 0.243 | 1 | 6 | 1.415638 |
| Pnkd | 0.000107844 | 0.039670848 | 0.317 | 0.245 | 1 | 6 | 1.293878 |
| Usp3 | 0.000108858 | 0.078191131 | 0.433 | 0.326 | 1 | 6 | 1.328221 |
| Taf12 | 0.000109241 | 0.067385407 | 0.357 | 0.26 | 1 | 6 | 1.373077 |
| Mrpl51 | 0.000109753 | 0.115983194 | 0.438 | 0.335 | 1 | 6 | 1.307463 |
| Ppig | 0.000111803 | 0.050227415 | 0.607 | 0.491 | 1 | 6 | 1.236253 |
| Hsbp1 | 0.000112881 | 0.127341557 | 0.598 | 0.458 | 1 | 6 | 1.305677 |
| Xpa | 0.000113091 | 0.05253744 | 0.281 | 0.205 | 1 | 6 | 1.370732 |
| Psmc2 | 0.000113754 | 0.092676378 | 0.46 | 0.389 | 1 | 6 | 1.182519 |
| Ppp2r2a | 0.000113937 | 0.067238324 | 0.415 | 0.315 | 1 | 6 | 1.31746 |
| Tbl1x | 0.000115896 | 0.060987214 | 0.353 | 0.267 | 1 | 6 | 1.322097 |
| Atp5j | 0.000116857 | 0.163084755 | 0.884 | 0.831 | 1 | 6 | 1.063779 |
| Sra1 | 0.00011782 | 0.112067999 | 0.5 | 0.411 | 1 | 6 | 1.216545 |
| Sec22b | 0.000118502 | 0.091344234 | 0.304 | 0.21 | 1 | 6 | 1.447619 |
| Arhgap9 | 0.000118644 | 0.123311664 | 0.647 | 0.533 | 1 | 6 | 1.213884 |
| Dok2 | 0.000120087 | 0.101950029 | 0.612 | 0.533 | 1 | 6 | 1.148218 |
| Mkln1 | 0.000120867 | 0.016706233 | 0.312 | 0.253 | 1 | 6 | 1.233202 |
| Abhd17a | 0.000121797 | 0.062581984 | 0.304 | 0.222 | 1 | 6 | 1.369369 |
| Tspyl1 | 0.000121838 | 0.136526841 | 0.254 | 0.153 | 1 | 6 | 1.660131 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Bri3 | 0.000122636 | 0.073900808 | 0.335 | 0.263 | 1 | 6 | 1.273764 |
| Impa1 | 0.00012358 | 0.124822206 | 0.33 | 0.214 | 1 | 6 | 1.542056 |
| Zc3h7a | 0.000123684 | 0.018038244 | 0.339 | 0.273 | 1 | 6 | 1.241758 |
| Hint2 | 0.000124279 | 0.13248575 | 0.371 | 0.247 | 1 | 6 | 1.502024 |
| Rnf20 | 0.000124929 | 0.070122838 | 0.272 | 0.193 | 1 | 6 | 1.409326 |
| Diablo | 0.000125394 | 0.039422994 | 0.272 | 0.214 | 1 | 6 | 1.271028 |
| Lsm5 | 0.000126637 | 0.147149783 | 0.679 | 0.542 | 1 | 6 | 1.252768 |
| Ndufa4 | 0.000127646 | 0.135114062 | 0.973 | 0.917 | 1 | 6 | 1.061069 |
| Tradd | 0.000128073 | 0.069647951 | 0.281 | 0.209 | 1 | 6 | 1.344498 |
| Cpsf6 | 0.000128945 | 0.017432279 | 0.272 | 0.216 | 1 | 6 | 1.259259 |
| Mllt10 | 0.000130293 | 0.06081954 | 0.366 | 0.27 | 1 | 6 | 1.355556 |
| Gtf3a | 0.000130655 | 0.044077312 | 0.259 | 0.212 | 1 | 6 | 1.221698 |
| Snrpb2 | 0.000132327 | 0.155940288 | 0.576 | 0.44 | 1 | 6 | 1.309091 |
| Pon2 | 0.000132541 | 0.131531534 | 0.286 | 0.173 | 1 | 6 | 1.653179 |
| Sf3b2 | 0.000132812 | 0.043266249 | 0.826 | 0.715 | 1 | 6 | 1.155245 |
| Ufm1 | 0.000133617 | 0.0149716 | 0.308 | 0.251 | 1 | 6 | 1.227092 |
| Immp1l | 0.000134954 | 0.060734439 | 0.388 | 0.3 | 1 | 6 | 1.293333 |
| Lpar6 | 0.000135317 | 0.105217666 | 0.268 | 0.188 | 1 | 6 | 1.425532 |
| Timm10b | 0.000136723 | 0.049197906 | 0.598 | 0.514 | 1 | 6 | 1.163424 |
| Themis | 0.000138467 | 0.039790154 | 0.344 | 0.268 | 1 | 6 | 1.283582 |
| Bclaf1 | 0.000138527 | 0.033306737 | 0.522 | 0.438 | 1 | 6 | 1.191781 |
| 4833420G17Rik | 0.000138533 | 0.049144977 | 0.254 | 0.186 | 1 | 6 | 1.365591 |
| Rwdd1 | 0.000139038 | 0.084734421 | 0.621 | 0.493 | 1 | 6 | 1.259635 |
| Sirt7 | 0.000139323 | 0.082721591 | 0.522 | 0.421 | 1 | 6 | 1.239905 |
| Iqgap1 | 0.000139567 | 0.087259749 | 0.674 | 0.543 | 1 | 6 | 1.241252 |
| Psmc7 | 0.000139837 | 0.029539275 | 0.429 | 0.359 | 1 | 6 | 1.194986 |
| Cul5 | 0.000140921 | 0.087654768 | 0.299 | 0.21 | 1 | 6 | 1.42381 |
| Tceb1 | 0.000142109 | 0.092849476 | 0.612 | 0.489 | 1 | 6 | 1.251534 |
| 2310011J03Rik | 0.000142371 | 0.028137809 | 0.326 | 0.261 | 1 | 6 | 1.249042 |
| Rsrc1 | 0.000142923 | 0.074643491 | 0.272 | 0.202 | 1 | 6 | 1.346535 |
| Ndufs6 | 0.000143016 | 0.130674997 | 0.714 | 0.57 | 1 | 6 | 1.252632 |
| Rab5c | 0.000143333 | 0.09497903 | 0.522 | 0.394 | 1 | 6 | 1.324873 |
| Lamtor2 | 0.000143405 | 0.001472376 | 0.719 | 0.637 | 1 | 6 | 1.128728 |
| Zfand5 | 0.000143547 | 0.059143002 | 0.321 | 0.26 | 1 | 6 | 1.234615 |
| Esco1 | 0.000143755 | 0.076317836 | 0.366 | 0.278 | 1 | 6 | 1.316547 |
| Sar1a | 0.000144893 | 0.019411203 | 0.379 | 0.308 | 1 | 6 | 1.230519 |
| Cops6 | 0.000145977 | 0.168565466 | 0.607 | 0.463 | 1 | 6 | 1.311015 |
| Spata13 | 0.000146462 | 0.119312788 | 0.299 | 0.209 | 1 | 6 | 1.430622 |
| Ube2m | 0.000148153 | 0.139438036 | 0.272 | 0.177 | 1 | 6 | 1.536723 |
| Stra13 | 0.000148984 | 0.003618864 | 0.469 | 0.435 | 1 | 6 | 1.078161 |
| Dynlt1c | 0.000149891 | 0.02557936 | 0.321 | 0.254 | 1 | 6 | 1.26378 |
| Ndufa3 | 0.000150845 | 0.165623547 | 0.871 | 0.796 | 1 | 6 | 1.094221 |
| Kcnn4 | 0.000152547 | 0.074990673 | 0.482 | 0.421 | 1 | 6 | 1.144893 |
| Rnf5 | 0.000154323 | 0.049934819 | 0.321 | 0.238 | 1 | 6 | 1.348739 |
| Psmb1 | 0.000156245 | 0.150791358 | 0.955 | 0.894 | 1 | 6 | 1.068233 |
| Paics | 0.000160757 | 0.018932582 | 0.299 | 0.236 | 1 | 6 | 1.266949 |
| Srpk2 | 0.000161306 | 0.077760688 | 0.545 | 0.475 | 1 | 6 | 1.147368 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Rsb1 | 0.000161663 | 0.123612057 | 0.33 | 0.218 | 1 | 6 | 1.513761 |
| Atp5d | 0.000161749 | 0.158506354 | 0.862 | 0.767 | 1 | 6 | 1.123859 |
| Sdf2 | 0.000162208 | 0.063277308 | 0.259 | 0.178 | 1 | 6 | 1.455056 |
| Rac1 | 0.000162895 | 0.091804207 | 0.799 | 0.667 | 1 | 6 | 1.197901 |
| Hdlbp | 0.000164779 | 0.124673547 | 0.281 | 0.195 | 1 | 6 | 1.441026 |
| Dek | 0.000164817 | 0.094841481 | 0.562 | 0.456 | 1 | 6 | 1.232456 |
| Nipbl | 0.000166654 | 0.136334555 | 0.603 | 0.463 | 1 | 6 | 1.302376 |
| Mgat2 | 0.000166767 | 0.012931049 | 0.429 | 0.364 | 1 | 6 | 1.178571 |
| Cir1 | 0.000168254 | 0.096950896 | 0.29 | 0.216 | 1 | 6 | 1.342593 |
| Hspb11 | 0.000168511 | 0.042701265 | 0.263 | 0.204 | 1 | 6 | 1.289216 |
| U2af1 | 0.000169367 | 0.104762212 | 0.625 | 0.535 | 1 | 6 | 1.168224 |
| Ahsa1 | 0.00016969 | 0.032080711 | 0.513 | 0.426 | 1 | 6 | 1.204225 |
| Rer1 | 0.000171214 | 0.133954889 | 0.621 | 0.486 | 1 | 6 | 1.277778 |
| BC029214 | 0.000173456 | 0.075610946 | 0.259 | 0.202 | 1 | 6 | 1.282178 |
| Polr2j | 0.000174104 | 0.083892652 | 0.558 | 0.441 | 1 | 6 | 1.265306 |
| Psmc1 | 0.000174247 | 0.068979634 | 0.366 | 0.278 | 1 | 6 | 1.316547 |
| Rbbp6 | 0.00017478 | 0.013372292 | 0.438 | 0.412 | 1 | 6 | 1.063107 |
| Smim12 | 0.000174869 | 0.009426217 | 0.29 | 0.237 | 1 | 6 | 1.223629 |
| Sfxn1 | 0.000179813 | 0.048267579 | 0.321 | 0.241 | 1 | 6 | 1.33195 |
| Srp19 | 0.000180085 | 0.100525897 | 0.513 | 0.387 | 1 | 6 | 1.325581 |
| Uimc1 | 0.000181068 | 0.039000063 | 0.259 | 0.189 | 1 | 6 | 1.37037 |
| Psmb5 | 0.000182757 | 0.109358817 | 0.656 | 0.542 | 1 | 6 | 1.210332 |
| Ssbp2 | 0.000185176 | 0.113223271 | 0.335 | 0.258 | 1 | 6 | 1.29845 |
| Msl1 | 0.000188808 | 0.066290819 | 0.272 | 0.204 | 1 | 6 | 1.333333 |
| Uqcrb | 0.000190117 | 0.157917698 | 0.772 | 0.64 | 1 | 6 | 1.20625 |
| Emc3 | 0.000190332 | 0.034560441 | 0.321 | 0.252 | 1 | 6 | 1.27381 |
| Gm21092 | 0.000192713 | 0.182021589 | 0.531 | 0.427 | 1 | 6 | 1.24356 |
| Ssr3 | 0.000193667 | 0.067183475 | 0.29 | 0.209 | 1 | 6 | 1.38756 |
| Idh3b | 0.000196766 | 0.090037639 | 0.451 | 0.334 | 1 | 6 | 1.350299 |
| Mrps18c | 0.000197748 | 0.004204952 | 0.433 | 0.373 | 1 | 6 | 1.160858 |
| Anxa6 | 0.000197854 | 0.145480111 | 0.643 | 0.599 | 1 | 6 | 1.073456 |
| Snrnp40 | 0.000200128 | 0.057129234 | 0.424 | 0.34 | 1 | 6 | 1.247059 |
| Dusp10 | 0.000203199 | 0.084021615 | 0.304 | 0.212 | 1 | 6 | 1.433962 |
| Emd | 0.000203589 | 0.102441262 | 0.397 | 0.28 | 1 | 6 | 1.417857 |
| Mphosph8 | 0.00020376 | 0.126196225 | 0.362 | 0.25 | 1 | 6 | 1.448 |
| Ubl5 | 0.000204054 | 0.153802932 | 0.915 | 0.847 | 1 | 6 | 1.080283 |
| Vps29 | 0.000205632 | 0.102738836 | 0.478 | 0.363 | 1 | 6 | 1.316804 |
| Zfp800 | 0.000207775 | 0.05117679 | 0.317 | 0.233 | 1 | 6 | 1.360515 |
| Eif4h | 0.000209476 | 0.114917385 | 0.478 | 0.361 | 1 | 6 | 1.3241 |
| Hltf | 0.000212679 | 0.059563228 | 0.263 | 0.191 | 1 | 6 | 1.376963 |
| Skap1 | 0.000213069 | 0.163257596 | 0.933 | 0.876 | 1 | 6 | 1.065068 |
| Gsk3b | 0.000216938 | 0.038108859 | 0.438 | 0.355 | 1 | 6 | 1.233803 |
| Sf1 | 0.000221161 | 0.061192193 | 0.299 | 0.233 | 1 | 6 | 1.283262 |
| Prrc2c | 0.000221516 | 0.156044835 | 0.853 | 0.741 | 1 | 6 | 1.151147 |
| Taf10 | 0.000224814 | 0.074919512 | 0.504 | 0.414 | 1 | 6 | 1.217391 |
| Aspscr1 | 0.000227871 | 0.061166574 | 0.299 | 0.224 | 1 | 6 | 1.334821 |
| Lonp2 | 0.000228037 | 0.091581437 | 0.339 | 0.241 | 1 | 6 | 1.406639 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Itk | 0.000230219 | 0.011747427 | 0.567 | 0.508 | 1 | 6 | 1.116142 |
| Ndufb5 | 0.000230523 | 0.173534128 | 0.777 | 0.693 | 1 | 6 | 1.121212 |
| Ndufb7 | 0.000230676 | 0.158988627 | 0.754 | 0.626 | 1 | 6 | 1.204473 |
| H2-DMA | 0.000231299 | 0.115699301 | 0.326 | 0.22 | 1 | 6 | 1.481818 |
| Swi5 | 0.000233259 | 0.052005797 | 0.692 | 0.58 | 1 | 6 | 1.193103 |
| Psmb3 | 0.000233937 | 0.144238527 | 0.835 | 0.739 | 1 | 6 | 1.129905 |
| Fam114a2 | 0.000234453 | 0.060851606 | 0.272 | 0.201 | 1 | 6 | 1.353234 |
| Ptk2b | 0.000236961 | 0.104033188 | 0.344 | 0.236 | 1 | 6 | 1.457627 |
| Phf23 | 0.00023793 | 0.119287486 | 0.304 | 0.209 | 1 | 6 | 1.454545 |
| Suds3 | 0.000238554 | 0.030784381 | 0.317 | 0.245 | 1 | 6 | 1.293878 |
| Rtn4 | 0.000240937 | 0.159838379 | 0.353 | 0.232 | 1 | 6 | 1.521552 |
| Cog8 | 0.000242045 | 0.063436032 | 0.254 | 0.186 | 1 | 6 | 1.365591 |
| Hspa4 | 0.000242399 | 0.022514 | 0.433 | 0.358 | 1 | 6 | 1.209497 |
| Tmem160 | 0.000243219 | 0.146317562 | 0.67 | 0.534 | 1 | 6 | 1.254682 |
| Chchd3 | 0.000243871 | 0.053267188 | 0.424 | 0.355 | 1 | 6 | 1.194366 |
| Ttc14 | 0.000245612 | 0.052889133 | 0.607 | 0.525 | 1 | 6 | 1.15619 |
| Cnot4 | 0.000246985 | 0.056747994 | 0.438 | 0.361 | 1 | 6 | 1.213296 |
| Nsd1 | 0.000249154 | 0.00627532 | 0.384 | 0.317 | 1 | 6 | 1.211356 |
| Pdcd6 | 0.000251514 | 0.104435496 | 0.621 | 0.503 | 1 | 6 | 1.234592 |
| Fam195b | 0.000255299 | 0.043418026 | 0.353 | 0.283 | 1 | 6 | 1.24735 |
| Rbck1 | 0.000256582 | 0.088520991 | 0.522 | 0.405 | 1 | 6 | 1.288889 |
| Def6 | 0.000260911 | 0.060497984 | 0.496 | 0.388 | 1 | 6 | 1.278351 |
| Gmip | 0.000268976 | 0.050786935 | 0.254 | 0.188 | 1 | 6 | 1.351064 |
| 1700123O20Rik | 0.000272997 | 0.125984138 | 0.366 | 0.248 | 1 | 6 | 1.475806 |
| Mrps23 | 0.000276609 | 0.019742417 | 0.33 | 0.268 | 1 | 6 | 1.231343 |
| Pgls | 0.000278128 | 0.12873474 | 0.616 | 0.478 | 1 | 6 | 1.288703 |
| Chchd2 | 0.000279199 | 0.140047066 | 0.955 | 0.893 | 1 | 6 | 1.069429 |
| Prdx1 | 0.000281088 | 0.135410732 | 0.879 | 0.838 | 1 | 6 | 1.048926 |
| Camk2d | 0.000283567 | 0.121831427 | 0.371 | 0.255 | 1 | 6 | 1.454902 |
| Tnrc6a | 0.000286556 | 0.06483609 | 0.478 | 0.383 | 1 | 6 | 1.248042 |
| Arid4a | 0.000286923 | 0.103673036 | 0.531 | 0.403 | 1 | 6 | 1.317618 |
| Rhof | 0.000288971 | 0.090028883 | 0.402 | 0.293 | 1 | 6 | 1.372014 |
| Sdhaf1 | 0.0002946 | 0.084634658 | 0.295 | 0.199 | 1 | 6 | 1.482412 |
| Fam63b | 0.000295582 | 0.097795106 | 0.259 | 0.173 | 1 | 6 | 1.49711 |
| Arpc5l | 0.000296725 | 0.12972826 | 0.696 | 0.587 | 1 | 6 | 1.18569 |
| Cnot3 | 0.000298361 | 0.03715887 | 0.254 | 0.192 | 1 | 6 | 1.322917 |
| Rinl | 0.000302942 | 0.074384634 | 0.647 | 0.543 | 1 | 6 | 1.191529 |
| Kcnq1ot1 | 0.000304437 | 0.07674359 | 0.522 | 0.456 | 1 | 6 | 1.144737 |
| Tmem14c | 0.000305248 | 0.088866605 | 0.562 | 0.444 | 1 | 6 | 1.265766 |
| 2700094K13Rik | 0.000308299 | 0.13493038 | 0.491 | 0.402 | 1 | 6 | 1.221393 |
| Golga4 | 0.000309017 | 0.04523961 | 0.286 | 0.229 | 1 | 6 | 1.248908 |
| Chrac1 | 0.000309138 | 0.053752795 | 0.5 | 0.413 | 1 | 6 | 1.210654 |
| Tmed2 | 0.000309347 | 0.023257242 | 0.79 | 0.724 | 1 | 6 | 1.09116 |
| Appl1 | 0.000316052 | 0.115649795 | 0.326 | 0.23 | 1 | 6 | 1.417391 |
| Lamp1 | 0.000321037 | 0.025614578 | 0.522 | 0.474 | 1 | 6 | 1.101266 |
| Isy1 | 0.000322887 | 0.044382592 | 0.259 | 0.19 | 1 | 6 | 1.363158 |
| Cox8a | 0.000323955 | 0.108300151 | 0.973 | 0.926 | 1 | 6 | 1.050756 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Tigd2 | 0.000324833 | 0.101213461 | 0.406 | 0.313 | 1 | 6 | 1.297125 |
| Srsf10 | 0.000327732 | 0.066074478 | 0.455 | 0.369 | 1 | 6 | 1.233062 |
| Farsa | 0.00033039 | 0.010343942 | 0.321 | 0.262 | 1 | 6 | 1.225191 |
| Sepp1 | 0.000333805 | 0.159907628 | 0.375 | 0.292 | 1 | 6 | 1.284247 |
| Ccnh | 0.000338055 | 0.030628032 | 0.254 | 0.211 | 1 | 6 | 1.203791 |
| Dcp2 | 0.000340224 | 0.083740914 | 0.263 | 0.192 | 1 | 6 | 1.369792 |
| Tmem123 | 0.000341243 | 0.054809607 | 0.455 | 0.354 | 1 | 6 | 1.285311 |
| Tpm4 | 0.000344282 | 0.010704788 | 0.366 | 0.311 | 1 | 6 | 1.176849 |
| Copb2 | 0.000350196 | 0.104969246 | 0.379 | 0.277 | 1 | 6 | 1.368231 |
| Psmc6 | 0.000352984 | 0.045554697 | 0.424 | 0.34 | 1 | 6 | 1.247059 |
| Chd8 | 0.0003571 | 0.049419702 | 0.317 | 0.274 | 1 | 6 | 1.156934 |
| Dnajb6 | 0.000363904 | 0.136488874 | 0.589 | 0.469 | 1 | 6 | 1.255864 |
| Ppil3 | 0.000366637 | 0.109470103 | 0.308 | 0.222 | 1 | 6 | 1.387387 |
| Nt5c | 0.000367415 | 0.060869656 | 0.683 | 0.579 | 1 | 6 | 1.17962 |
| Pak1ip1 | 0.000368178 | 0.018333098 | 0.402 | 0.339 | 1 | 6 | 1.185841 |
| Anapc13 | 0.000369127 | 0.134470832 | 0.496 | 0.361 | 1 | 6 | 1.373961 |
| Cd7 | 0.000371462 | 0.015426228 | 0.268 | 0.275 | 1 | 6 | 0.974545 |
| Herpud1 | 0.000373758 | 0.015906389 | 0.321 | 0.26 | 1 | 6 | 1.234615 |
| Cers2 | 0.000375661 | 0.06918551 | 0.295 | 0.216 | 1 | 6 | 1.365741 |
| Eif3l | 0.000377334 | 0.129541388 | 0.513 | 0.378 | 1 | 6 | 1.357143 |
| Wbp4 | 0.000381059 | 0.043718796 | 0.384 | 0.299 | 1 | 6 | 1.284281 |
| Ndufc2 | 0.000381576 | 0.160654375 | 0.629 | 0.525 | 1 | 6 | 1.198095 |
| Dapk3 | 0.000382874 | 0.024753317 | 0.259 | 0.209 | 1 | 6 | 1.239234 |
| Trip12 | 0.00038399 | 0.0873344 | 0.388 | 0.292 | 1 | 6 | 1.328767 |
| Asxl2 | 0.000384391 | 0.068642426 | 0.339 | 0.251 | 1 | 6 | 1.350598 |
| Stag1 | 0.000386232 | 0.074300734 | 0.344 | 0.271 | 1 | 6 | 1.269373 |
| Os9 | 0.000387535 | 0.11318341 | 0.455 | 0.334 | 1 | 6 | 1.362275 |
| Cul1 | 0.00039338 | 0.090114928 | 0.29 | 0.207 | 1 | 6 | 1.400966 |
| Pdha1 | 0.000395948 | 0.075846987 | 0.406 | 0.312 | 1 | 6 | 1.301282 |
| Pcm1 | 0.000397682 | 0.027457531 | 0.304 | 0.253 | 1 | 6 | 1.201581 |
| Taldo1 | 0.000401459 | 0.165772913 | 0.723 | 0.602 | 1 | 6 | 1.200997 |
| Stat3 | 0.000405182 | 0.113316762 | 0.429 | 0.328 | 1 | 6 | 1.307927 |
| Zfp638 | 0.000407259 | 0.042408992 | 0.344 | 0.289 | 1 | 6 | 1.190311 |
| Zfand6 | 0.000410904 | 0.120877311 | 0.612 | 0.482 | 1 | 6 | 1.26971 |
| Ccs | 0.000411008 | 0.045965984 | 0.295 | 0.223 | 1 | 6 | 1.32287 |
| Psmc7 | 0.000412844 | 0.157157679 | 0.875 | 0.789 | 1 | 6 | 1.108999 |
| Baz1b | 0.000413533 | 0.057495326 | 0.348 | 0.288 | 1 | 6 | 1.208333 |
| Vma21 | 0.00042691 | 0.118433592 | 0.281 | 0.181 | 1 | 6 | 1.552486 |
| Supt4a | 0.000427064 | 0.153499536 | 0.826 | 0.75 | 1 | 6 | 1.101333 |
| Sub1 | 0.000434177 | 0.140719958 | 0.924 | 0.894 | 1 | 6 | 1.033557 |
| Pop5 | 0.000434986 | 0.017692512 | 0.5 | 0.439 | 1 | 6 | 1.138952 |
| Znhit1 | 0.00043568 | 0.051878819 | 0.272 | 0.196 | 1 | 6 | 1.387755 |
| Ddx6 | 0.000442677 | 0.115350305 | 0.531 | 0.411 | 1 | 6 | 1.291971 |
| Hadhb | 0.000444163 | 0.061685074 | 0.451 | 0.358 | 1 | 6 | 1.259777 |
| Imp3 | 0.000447969 | 0.007634621 | 0.545 | 0.468 | 1 | 6 | 1.16453 |
| Cdc42ep3 | 0.000450248 | 0.134213924 | 0.272 | 0.183 | 1 | 6 | 1.486339 |
| Rsf1 | 0.000450782 | 0.10509571 | 0.411 | 0.316 | 1 | 6 | 1.300633 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Raf1 | 0.000454324 | 0.10694279 | 0.299 | 0.206 | 1 | 6 | 1.451456 |
| Csnk1g3 | 0.000454396 | 0.124685618 | 0.272 | 0.171 | 1 | 6 | 1.590643 |
| Sarnp | 0.000456388 | 0.116145995 | 0.652 | 0.527 | 1 | 6 | 1.237192 |
| Elf1 | 0.000460526 | 0.121374973 | 0.768 | 0.635 | 1 | 6 | 1.209449 |
| Vps13a | 0.000461692 | 0.098806773 | 0.312 | 0.222 | 1 | 6 | 1.405405 |
| Nono | 0.000462886 | 0.109928353 | 0.665 | 0.55 | 1 | 6 | 1.209091 |
| Ubxn1 | 0.000466969 | 0.054623912 | 0.58 | 0.481 | 1 | 6 | 1.205821 |
| Ttc3 | 0.00046819 | 0.032389671 | 0.379 | 0.308 | 1 | 6 | 1.230519 |
| Smim19 | 0.000473035 | 0.039720249 | 0.335 | 0.265 | 1 | 6 | 1.264151 |
| Uqcr10 | 0.000478001 | 0.132237955 | 0.848 | 0.814 | 1 | 6 | 1.041769 |
| Rel | 0.000481248 | 0.137143927 | 0.299 | 0.192 | 1 | 6 | 1.557292 |
| Capza2 | 0.000484255 | 0.115861233 | 0.701 | 0.571 | 1 | 6 | 1.227671 |
| Sfpq | 0.000484965 | 0.176414401 | 0.638 | 0.515 | 1 | 6 | 1.238835 |
| AW112010 | 0.000491339 | 0.195876062 | 0.879 | 0.831 | 1 | 6 | 1.057762 |
| Kras | 0.000493014 | 0.08006187 | 0.549 | 0.452 | 1 | 6 | 1.214602 |
| 1110004F10Rik | 0.000495093 | 0.118766227 | 0.603 | 0.483 | 1 | 6 | 1.248447 |
| Fam32a | 0.00049799 | 0.084389609 | 0.522 | 0.433 | 1 | 6 | 1.205543 |
| Clk1 | 0.000505518 | 0.080147895 | 0.576 | 0.463 | 1 | 6 | 1.24406 |
| Nap1l4 | 0.000506993 | 0.070313749 | 0.634 | 0.52 | 1 | 6 | 1.219231 |
| Sf3b1 | 0.000509865 | 0.108392679 | 0.924 | 0.837 | 1 | 6 | 1.103943 |
| Cyth1 | 0.000512851 | 0.049817394 | 0.513 | 0.417 | 1 | 6 | 1.230216 |
| Jmjd1c | 0.000516716 | 0.125023889 | 0.353 | 0.241 | 1 | 6 | 1.46473 |
| Rbbp7 | 0.000524991 | 0.158489642 | 0.536 | 0.412 | 1 | 6 | 1.300971 |
| Orai1 | 0.000525989 | 0.165419271 | 0.317 | 0.211 | 1 | 6 | 1.50237 |
| Phf5a | 0.000534956 | 0.01262758 | 0.397 | 0.341 | 1 | 6 | 1.164223 |
| Sumo2 | 0.0005358 | 0.146379599 | 0.946 | 0.896 | 1 | 6 | 1.055804 |
| Timm13 | 0.000538358 | 0.00720595 | 0.705 | 0.624 | 1 | 6 | 1.129808 |
| Gata3 | 0.00054433 | 0.128265343 | 0.263 | 0.168 | 1 | 6 | 1.565476 |
| Tex264 | 0.000546573 | 0.004041832 | 0.277 | 0.232 | 1 | 6 | 1.193966 |
| Rdx | 0.000548819 | 0.022719746 | 0.464 | 0.386 | 1 | 6 | 1.202073 |
| Psmb8 | 0.000549685 | 0.109638554 | 0.991 | 0.97 | 1 | 6 | 1.021649 |
| Atp6v1g1 | 0.000551183 | 0.069419695 | 0.661 | 0.575 | 1 | 6 | 1.149565 |
| Tpi1 | 0.000554382 | 0.050812313 | 0.268 | 0.205 | 1 | 6 | 1.307317 |
| Fth1 | 0.000554861 | 0.119717235 | 1 | 0.997 | 1 | 6 | 1.003009 |
| Fam208a | 0.000558063 | 0.035515378 | 0.281 | 0.213 | 1 | 6 | 1.319249 |
| Supt16 | 0.000561312 | 0.034710316 | 0.446 | 0.361 | 1 | 6 | 1.235457 |
| Erich1 | 0.000564831 | 0.061230926 | 0.254 | 0.18 | 1 | 6 | 1.411111 |
| Ythdf2 | 0.000570929 | 0.064257107 | 0.299 | 0.223 | 1 | 6 | 1.340807 |
| Suz12 | 0.000572195 | 0.077455758 | 0.277 | 0.202 | 1 | 6 | 1.371287 |
| Ehd3 | 0.000584979 | 0.073311411 | 0.335 | 0.253 | 1 | 6 | 1.324111 |
| Tcf3 | 0.000585122 | 0.09549331 | 0.326 | 0.229 | 1 | 6 | 1.423581 |
| Rbbp4 | 0.000587904 | 0.121536542 | 0.585 | 0.47 | 1 | 6 | 1.244681 |
| Strap | 0.000593012 | 0.027307053 | 0.393 | 0.325 | 1 | 6 | 1.209231 |
| Psmb2 | 0.000595284 | 0.124595022 | 0.795 | 0.668 | 1 | 6 | 1.19012 |
| Sh3bp1 | 0.000598723 | 0.041341622 | 0.295 | 0.23 | 1 | 6 | 1.282609 |
| Spr | 0.000606448 | 0.02835742 | 0.317 | 0.258 | 1 | 6 | 1.228682 |
| Sec61g | 0.000618484 | 0.137992959 | 0.933 | 0.872 | 1 | 6 | 1.069954 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Naa20 | 0.000623146 | 0.088688254 | 0.344 | 0.248 | 1 | 6 | 1.387097 |
| Mfap1a | 0.000625198 | 0.015082506 | 0.263 | 0.218 | 1 | 6 | 1.206422 |
| Egln2 | 0.000627113 | 0.064251749 | 0.295 | 0.214 | 1 | 6 | 1.378505 |
| Rab18 | 0.000631825 | 0.008213748 | 0.29 | 0.248 | 1 | 6 | 1.169355 |
| Myh9 | 0.000635139 | 0.159952043 | 0.652 | 0.56 | 1 | 6 | 1.164286 |
| Rpa3 | 0.000635947 | 0.036876604 | 0.304 | 0.239 | 1 | 6 | 1.271967 |
| Gtpbp2 | 0.000641943 | 0.002234327 | 0.366 | 0.319 | 1 | 6 | 1.147335 |
| Cox7b | 0.000643255 | 0.14674414 | 0.826 | 0.72 | 1 | 6 | 1.147222 |
| Eps15 | 0.000648624 | 0.104635756 | 0.268 | 0.185 | 1 | 6 | 1.448649 |
| Spn | 0.000650616 | 0.125302713 | 0.549 | 0.432 | 1 | 6 | 1.270833 |
| Krcc1 | 0.000652143 | 0.052548872 | 0.509 | 0.416 | 1 | 6 | 1.223558 |
| Psma3 | 0.000653136 | 0.14112397 | 0.83 | 0.729 | 1 | 6 | 1.138546 |
| Sfn1 | 0.000654253 | 0.117822717 | 0.589 | 0.516 | 1 | 6 | 1.141473 |
| Vapa | 0.000669006 | 0.064616844 | 0.567 | 0.476 | 1 | 6 | 1.191176 |
| Myl12a | 0.000680113 | 0.139058988 | 0.969 | 0.951 | 1 | 6 | 1.018927 |
| Actr3 | 0.000680731 | 0.134189796 | 0.951 | 0.923 | 1 | 6 | 1.030336 |
| Gtf2a2 | 0.000691576 | 0.1535064 | 0.558 | 0.429 | 1 | 6 | 1.300699 |
| Cntrl | 0.000708861 | 0.128389341 | 0.491 | 0.387 | 1 | 6 | 1.268734 |
| Ddx3x | 0.000714587 | 0.023869397 | 0.308 | 0.253 | 1 | 6 | 1.217391 |
| Pfkip | 0.000717516 | 0.010279871 | 0.348 | 0.287 | 1 | 6 | 1.212544 |
| Gspt1 | 0.000720908 | 0.085068123 | 0.424 | 0.319 | 1 | 6 | 1.329154 |
| Gemin7 | 0.000722224 | 0.023196911 | 0.375 | 0.31 | 1 | 6 | 1.209677 |
| Ndufs3 | 0.000727357 | 0.031288904 | 0.54 | 0.45 | 1 | 6 | 1.2 |
| Samm50 | 0.000741503 | 0.031345602 | 0.411 | 0.349 | 1 | 6 | 1.17765 |
| Fibp | 0.000751834 | 0.055371806 | 0.263 | 0.19 | 1 | 6 | 1.384211 |
| Cyth4 | 0.00075494 | 0.103143424 | 0.268 | 0.187 | 1 | 6 | 1.433155 |
| Bbx | 0.000760999 | 0.03766265 | 0.277 | 0.213 | 1 | 6 | 1.300469 |
| Rad23b | 0.000769062 | 0.027971375 | 0.344 | 0.295 | 1 | 6 | 1.166102 |
| Sh3kbp1 | 0.000769856 | 0.151915733 | 0.643 | 0.537 | 1 | 6 | 1.197393 |
| Fli1 | 0.000773698 | 0.085446044 | 0.326 | 0.252 | 1 | 6 | 1.293651 |
| Tiprl | 0.000780651 | 0.016294377 | 0.295 | 0.254 | 1 | 6 | 1.161417 |
| Parp1 | 0.000781993 | 0.084750581 | 0.268 | 0.202 | 1 | 6 | 1.326733 |
| Rp9 | 0.00078343 | 0.007937252 | 0.558 | 0.488 | 1 | 6 | 1.143443 |
| Ndufc1 | 0.000785961 | 0.102093248 | 0.625 | 0.511 | 1 | 6 | 1.223092 |
| Dnajc2 | 0.000786181 | 0.065715695 | 0.473 | 0.375 | 1 | 6 | 1.261333 |
| Mpond | 0.000786812 | 0.058563699 | 0.304 | 0.234 | 1 | 6 | 1.299145 |
| Arhgap4 | 0.000794214 | 0.048858231 | 0.281 | 0.213 | 1 | 6 | 1.319249 |
| Smim10l1 | 0.000795225 | 0.061748381 | 0.281 | 0.205 | 1 | 6 | 1.370732 |
| Mbnl2 | 0.000804376 | 0.113639515 | 0.268 | 0.174 | 1 | 6 | 1.54023 |
| Sf3b6 | 0.000804616 | 0.066649643 | 0.741 | 0.632 | 1 | 6 | 1.172468 |
| Hnrnpd | 0.000809152 | 0.031376653 | 0.527 | 0.46 | 1 | 6 | 1.145652 |
| Mark2 | 0.000811767 | 0.082494689 | 0.402 | 0.333 | 1 | 6 | 1.207207 |
| Hiat1 | 0.000816198 | 0.110617323 | 0.312 | 0.22 | 1 | 6 | 1.418182 |
| Mcl1 | 0.000820187 | 0.091300659 | 0.473 | 0.368 | 1 | 6 | 1.285326 |
| Mtf2 | 0.00082648 | 0.020245952 | 0.304 | 0.245 | 1 | 6 | 1.240816 |
| Utrn | 0.00082843 | 0.128239125 | 0.567 | 0.443 | 1 | 6 | 1.27991 |
| Cmc1 | 0.000833566 | 0.065788616 | 0.388 | 0.306 | 1 | 6 | 1.267974 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Eif4g3 | 0.000849504 | 0.125243455 | 0.33 | 0.229 | 1 | 6 | 1.441048 |
| Cfl1 | 0.000849702 | 0.046821784 | 0.996 | 0.995 | 1 | 6 | 1.001005 |
| Cfap97 | 0.000851535 | 0.100084401 | 0.272 | 0.192 | 1 | 6 | 1.416667 |
| Gtf2b | 0.000861985 | 0.074220471 | 0.326 | 0.236 | 1 | 6 | 1.381356 |
| Glo1 | 0.000869026 | 0.060154749 | 0.411 | 0.33 | 1 | 6 | 1.245455 |
| Ldha | 0.000878164 | 0.143950224 | 0.942 | 0.897 | 1 | 6 | 1.050167 |
| Txndc15 | 0.000883537 | 0.07574052 | 0.295 | 0.227 | 1 | 6 | 1.299559 |
| Trpc4ap | 0.0008911 | 0.120695592 | 0.29 | 0.199 | 1 | 6 | 1.457286 |
| Bub3 | 0.000892965 | 0.061993341 | 0.576 | 0.474 | 1 | 6 | 1.21519 |
| Rsb1l1 | 0.000911542 | 0.027045032 | 0.473 | 0.402 | 1 | 6 | 1.176617 |
| Wasf2 | 0.000921306 | 0.016957834 | 0.504 | 0.468 | 1 | 6 | 1.076923 |
| Ncor1 | 0.000929112 | 0.137492975 | 0.754 | 0.646 | 1 | 6 | 1.167183 |
| Ndufa5 | 0.000929207 | 0.062870263 | 0.612 | 0.507 | 1 | 6 | 1.207101 |
| Cd84 | 0.000945722 | 0.072566174 | 0.594 | 0.518 | 1 | 6 | 1.146718 |
| Rnpepl1 | 0.00095083 | 0.012712854 | 0.272 | 0.225 | 1 | 6 | 1.208889 |
| Mdh1 | 0.000952314 | 0.119455007 | 0.768 | 0.691 | 1 | 6 | 1.111433 |
| Tprgl | 0.000968255 | 0.032335458 | 0.589 | 0.517 | 1 | 6 | 1.139265 |
| Ubap2l | 0.000980514 | 0.031461838 | 0.5 | 0.417 | 1 | 6 | 1.199041 |
| Tra2a | 0.000985268 | 0.056024604 | 0.379 | 0.32 | 1 | 6 | 1.184375 |
| Mbd3 | 0.000986005 | 0.035335508 | 0.29 | 0.228 | 1 | 6 | 1.27193 |
| Ilkap | 0.000994975 | 0.032419757 | 0.321 | 0.258 | 1 | 6 | 1.244186 |
| Sp3 | 0.001002473 | 0.054243303 | 0.397 | 0.318 | 1 | 6 | 1.248428 |
| Zbp1 | 0.001008642 | 0.095876138 | 0.478 | 0.376 | 1 | 6 | 1.271277 |
| Fam107b | 0.001019579 | 0.086838361 | 0.478 | 0.385 | 1 | 6 | 1.241558 |
| Wtap | 0.00102215 | 0.104319379 | 0.312 | 0.219 | 1 | 6 | 1.424658 |
| Slc25a3 | 0.001028278 | 0.150360839 | 0.857 | 0.803 | 1 | 6 | 1.067248 |
| Emc2 | 0.001045674 | 0.008859705 | 0.321 | 0.267 | 1 | 6 | 1.202247 |
| Pcmt1 | 0.001050947 | 0.034478284 | 0.344 | 0.282 | 1 | 6 | 1.219858 |
| Ptges3 | 0.001053558 | 0.021572458 | 0.424 | 0.367 | 1 | 6 | 1.155313 |
| Rcsd1 | 0.0010611 | 0.05072751 | 0.558 | 0.465 | 1 | 6 | 1.2 |
| 4933434E20Rik | 0.001070375 | 0.044607592 | 0.384 | 0.303 | 1 | 6 | 1.267327 |
| mt-Co3 | 0.001096206 | 0.081336556 | 1 | 1 | 1 | 6 | 1 |
| Gon4l | 0.001105552 | 0.000953915 | 0.326 | 0.278 | 1 | 6 | 1.172662 |
| Pnrc1 | 0.001119528 | 0.068697544 | 0.812 | 0.7 | 1 | 6 | 1.16 |
| Dcaf11 | 0.001131856 | 0.00539459 | 0.254 | 0.213 | 1 | 6 | 1.192488 |
| mt-Atp6 | 0.001132371 | 0.078055165 | 1 | 1 | 1 | 6 | 1 |
| Anp32a | 0.001141756 | 0.150382395 | 0.879 | 0.86 | 1 | 6 | 1.022093 |
| Ash2l | 0.001144894 | 0.052798314 | 0.254 | 0.189 | 1 | 6 | 1.343915 |
| Ggnbp2 | 0.001145493 | 0.062676135 | 0.522 | 0.423 | 1 | 6 | 1.234043 |
| Tnfaip8l2 | 0.001151631 | 0.119804787 | 0.647 | 0.554 | 1 | 6 | 1.16787 |
| Hnrnpk | 0.001156933 | 0.110859869 | 0.96 | 0.892 | 1 | 6 | 1.076233 |
| Lsm14a | 0.001165079 | 0.016044102 | 0.46 | 0.387 | 1 | 6 | 1.18863 |
| Tmem243 | 0.001173081 | 0.042027281 | 0.295 | 0.247 | 1 | 6 | 1.194332 |
| Ube2d2a | 0.001175882 | 0.115953404 | 0.795 | 0.69 | 1 | 6 | 1.152174 |
| Dcaf8 | 0.001195832 | 0.071192436 | 0.388 | 0.318 | 1 | 6 | 1.220126 |
| Uqcr11 | 0.001213972 | 0.059874191 | 0.754 | 0.657 | 1 | 6 | 1.147641 |
| Dock2 | 0.001231147 | 0.082284452 | 0.562 | 0.518 | 1 | 6 | 1.084942 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Dhps | 0.001254754 | 0.076993362 | 0.304 | 0.215 | 1 | 6 | 1.413953 |
| Cops3 | 0.001257221 | 0.085219756 | 0.263 | 0.184 | 1 | 6 | 1.429348 |
| Naca | 0.001259837 | 0.111225533 | 1 | 0.998 | 1 | 6 | 1.002004 |
| Hdgm | 0.001276285 | 0.000175573 | 0.438 | 0.387 | 1 | 6 | 1.131783 |
| N6amt2 | 0.001285591 | 0.027741059 | 0.286 | 0.225 | 1 | 6 | 1.271111 |
| Btg1 | 0.001288723 | 0.149365486 | 0.987 | 0.983 | 1 | 6 | 1.004069 |
| Nol7 | 0.001289216 | 0.043603314 | 0.808 | 0.706 | 1 | 6 | 1.144476 |
| Chmp3 | 0.00129144 | 0.017663571 | 0.295 | 0.237 | 1 | 6 | 1.244726 |
| Anp32e | 0.001292845 | 0.141493656 | 0.513 | 0.397 | 1 | 6 | 1.292191 |
| Vrk3 | 0.001304964 | 0.060780263 | 0.353 | 0.271 | 1 | 6 | 1.302583 |
| Cstf3 | 0.001312423 | 0.067581067 | 0.286 | 0.204 | 1 | 6 | 1.401961 |
| Ube3a | 0.001326157 | 0.023693481 | 0.464 | 0.392 | 1 | 6 | 1.183673 |
| 2210016F16Rik | 0.001338206 | 0.023391458 | 0.344 | 0.278 | 1 | 6 | 1.23741 |
| Laptm4a | 0.001348717 | 0.01630695 | 0.491 | 0.426 | 1 | 6 | 1.152582 |
| Mapkap1 | 0.001348933 | 0.068996428 | 0.286 | 0.206 | 1 | 6 | 1.38835 |
| Zdhhc20 | 0.001355898 | 0.074590621 | 0.482 | 0.375 | 1 | 6 | 1.285333 |
| Nudcd3 | 0.001365158 | 0.105589688 | 0.509 | 0.413 | 1 | 6 | 1.232446 |
| Eif3d | 0.001367318 | 0.071526472 | 0.487 | 0.388 | 1 | 6 | 1.255155 |
| Chmp4b | 0.001369343 | 0.090697798 | 0.518 | 0.421 | 1 | 6 | 1.230404 |
| Hprt | 0.001371039 | 0.074018165 | 0.527 | 0.446 | 1 | 6 | 1.181614 |
| Ube2e1 | 0.001372605 | 0.088900968 | 0.429 | 0.331 | 1 | 6 | 1.296073 |
| Ash1l | 0.001373568 | 0.08660546 | 0.504 | 0.4 | 1 | 6 | 1.26 |
| Phf20 | 0.001384705 | 0.014333513 | 0.286 | 0.23 | 1 | 6 | 1.243478 |
| Ppp4r2 | 0.001386371 | 0.05069975 | 0.317 | 0.239 | 1 | 6 | 1.32636 |
| Pxk | 0.001408119 | 0.066636438 | 0.268 | 0.193 | 1 | 6 | 1.388601 |
| Socs1 | 0.001410353 | 0.138737991 | 0.321 | 0.229 | 1 | 6 | 1.401747 |
| Adrm1 | 0.001430266 | 0.047763027 | 0.366 | 0.307 | 1 | 6 | 1.192182 |
| Arf4 | 0.001465932 | 0.032598271 | 0.397 | 0.323 | 1 | 6 | 1.229102 |
| Nudt16 | 0.001475279 | 0.050795481 | 0.299 | 0.256 | 1 | 6 | 1.167969 |
| Neat1 | 0.001488844 | 0.012926683 | 0.335 | 0.28 | 1 | 6 | 1.196429 |
| Romo1 | 0.001489444 | 0.103586496 | 0.612 | 0.522 | 1 | 6 | 1.172414 |
| 1810022K09Rik | 0.001490046 | 0.096684001 | 0.5 | 0.409 | 1 | 6 | 1.222494 |
| Ctnnb1 | 0.001504388 | 0.051661894 | 0.263 | 0.196 | 1 | 6 | 1.341837 |
| Golgb1 | 0.001505144 | 0.08734263 | 0.348 | 0.253 | 1 | 6 | 1.375494 |
| Stk11 | 0.001505744 | 0.003563649 | 0.254 | 0.213 | 1 | 6 | 1.192488 |
| Stx4a | 0.001523647 | 0.106386411 | 0.393 | 0.29 | 1 | 6 | 1.355172 |
| Irf9 | 0.001554228 | 0.116691659 | 0.415 | 0.315 | 1 | 6 | 1.31746 |
| Tonsl | 0.001557454 | 0.118750736 | 0.795 | 0.703 | 1 | 6 | 1.130868 |
| Tor1a | 0.001574256 | 0.03634719 | 0.272 | 0.218 | 1 | 6 | 1.247706 |
| Rbm4b | 0.001590798 | 0.007712615 | 0.335 | 0.28 | 1 | 6 | 1.196429 |
| Txn14a | 0.001600203 | 0.005748274 | 0.33 | 0.305 | 1 | 6 | 1.081967 |
| Rnf138 | 0.001608153 | 0.003483429 | 0.375 | 0.328 | 1 | 6 | 1.143293 |
| Zfp644 | 0.001634601 | 0.01398309 | 0.348 | 0.293 | 1 | 6 | 1.187713 |
| Ndufs4 | 0.001648414 | 0.135612533 | 0.616 | 0.5 | 1 | 6 | 1.232 |
| Parp9 | 0.001671459 | 0.051945444 | 0.263 | 0.203 | 1 | 6 | 1.295567 |
| Abcf1 | 0.001682844 | 0.100789427 | 0.469 | 0.372 | 1 | 6 | 1.260753 |
| Ap4s1 | 0.001686666 | 0.072696049 | 0.259 | 0.185 | 1 | 6 | 1.4 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Fam111a | 0.001691318 | 0.05153167 | 0.326 | 0.248 | 1 | 6 | 1.314516 |
| Fam168b | 0.001698788 | 0.045924348 | 0.259 | 0.198 | 1 | 6 | 1.308081 |
| Phip | 0.001701777 | 0.104324656 | 0.406 | 0.318 | 1 | 6 | 1.27673 |
| Gpx1 | 0.001713048 | 0.151474131 | 0.728 | 0.613 | 1 | 6 | 1.187602 |
| Thoc2 | 0.001735487 | 0.070866523 | 0.527 | 0.443 | 1 | 6 | 1.189616 |
| Brk1 | 0.0017463 | 0.074815563 | 0.723 | 0.631 | 1 | 6 | 1.1458 |
| Srrm1 | 0.001761713 | 0.097189722 | 0.688 | 0.572 | 1 | 6 | 1.202797 |
| 1810043H04Rik | 0.001761935 | 0.042823744 | 0.487 | 0.4 | 1 | 6 | 1.2175 |
| Stxbp2 | 0.001764688 | 0.072966349 | 0.268 | 0.187 | 1 | 6 | 1.433155 |
| Pura | 0.001779859 | 0.11285527 | 0.433 | 0.316 | 1 | 6 | 1.370253 |
| Kmt2a | 0.001788524 | 0.117747091 | 0.433 | 0.324 | 1 | 6 | 1.33642 |
| Med28 | 0.001790732 | 0.09790651 | 0.714 | 0.631 | 1 | 6 | 1.131537 |
| Fam173a | 0.001811764 | 0.0503507 | 0.478 | 0.393 | 1 | 6 | 1.216285 |
| Sqstm1 | 0.001818392 | 0.041095985 | 0.326 | 0.266 | 1 | 6 | 1.225564 |
| Ogt | 0.00183687 | 0.084319013 | 0.732 | 0.657 | 1 | 6 | 1.114155 |
| Ppp1r11 | 0.001842022 | 0.089801123 | 0.54 | 0.429 | 1 | 6 | 1.258741 |
| 4932438A13Rik | 0.001845037 | 0.010463144 | 0.353 | 0.305 | 1 | 6 | 1.157377 |
| Ndufa7 | 0.001847307 | 0.024762637 | 0.821 | 0.73 | 1 | 6 | 1.124658 |
| Pycr2 | 0.001848039 | 0.027405042 | 0.304 | 0.242 | 1 | 6 | 1.256198 |
| Naa10 | 0.001849192 | 0.073886691 | 0.446 | 0.35 | 1 | 6 | 1.274286 |
| Thap3 | 0.001853674 | 0.071119045 | 0.366 | 0.31 | 1 | 6 | 1.180645 |
| Ndr3 | 0.001861911 | 0.033436461 | 0.326 | 0.272 | 1 | 6 | 1.198529 |
| Pik3r1 | 0.001901447 | 0.042978605 | 0.478 | 0.414 | 1 | 6 | 1.154589 |
| Rab24 | 0.00190828 | 0.0460221 | 0.375 | 0.296 | 1 | 6 | 1.266892 |
| Naa38 | 0.001944294 | 0.019811343 | 0.42 | 0.365 | 1 | 6 | 1.150685 |
| Dpm1 | 0.001952289 | 0.05321908 | 0.259 | 0.19 | 1 | 6 | 1.363158 |
| Leprot11 | 0.001967757 | 0.003136285 | 0.67 | 0.609 | 1 | 6 | 1.100164 |
| Nubp1 | 0.002002213 | 0.072507304 | 0.406 | 0.326 | 1 | 6 | 1.245399 |
| Ilf2 | 0.002034304 | 0.005338992 | 0.397 | 0.343 | 1 | 6 | 1.157434 |
| Rnf4 | 0.002049685 | 0.065337018 | 0.268 | 0.194 | 1 | 6 | 1.381443 |
| Tgs1 | 0.0021014 | 0.011687214 | 0.272 | 0.219 | 1 | 6 | 1.242009 |
| Tbrg1 | 0.002139808 | 0.024951952 | 0.58 | 0.497 | 1 | 6 | 1.167002 |
| Safb | 0.002153401 | 0.044790452 | 0.326 | 0.262 | 1 | 6 | 1.244275 |
| Gpr18 | 0.002182931 | 0.0146562 | 0.371 | 0.339 | 1 | 6 | 1.094395 |
| Ptp4a2 | 0.002190044 | 0.149163389 | 0.772 | 0.706 | 1 | 6 | 1.093484 |
| Pcbp2 | 0.002192382 | 0.132702742 | 0.817 | 0.712 | 1 | 6 | 1.147472 |
| Fbxw2 | 0.002192478 | 0.020675925 | 0.446 | 0.382 | 1 | 6 | 1.167539 |
| Arl6ip5 | 0.002200694 | 0.014571069 | 0.777 | 0.712 | 1 | 6 | 1.091292 |
| Ttc5 | 0.002209442 | 0.034569873 | 0.277 | 0.224 | 1 | 6 | 1.236607 |
| 1500011K16Rik | 0.002235512 | 0.012690548 | 0.406 | 0.341 | 1 | 6 | 1.190616 |
| Ubac2 | 0.002237383 | 0.0208276 | 0.446 | 0.417 | 1 | 6 | 1.069544 |
| Tap1 | 0.002243679 | 0.11904648 | 0.607 | 0.489 | 1 | 6 | 1.241309 |
| Usp25 | 0.002247 | 0.025065628 | 0.304 | 0.25 | 1 | 6 | 1.216 |
| Ost4 | 0.002263165 | 0.05252343 | 0.754 | 0.682 | 1 | 6 | 1.105572 |
| Tsg101 | 0.002275814 | 0.039342066 | 0.295 | 0.235 | 1 | 6 | 1.255319 |
| Mknk2 | 0.00227974 | 0.012629581 | 0.277 | 0.225 | 1 | 6 | 1.231111 |
| Rap2b | 0.002300302 | 0.036635104 | 0.277 | 0.212 | 1 | 6 | 1.306604 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Dido1 | 0.002316804 | 0.010599435 | 0.263 | 0.22 | 1 | 6 | 1.195455 |
| Dpy30 | 0.00240734 | 0.021038994 | 0.442 | 0.373 | 1 | 6 | 1.184987 |
| Polr2g | 0.002409372 | 0.081585775 | 0.616 | 0.515 | 1 | 6 | 1.196117 |
| Churc1 | 0.002454767 | 0.111088276 | 0.732 | 0.611 | 1 | 6 | 1.198036 |
| Sod2 | 0.002485594 | 0.054203868 | 0.397 | 0.342 | 1 | 6 | 1.160819 |
| Chordc1 | 0.002498699 | 0.01055144 | 0.254 | 0.206 | 1 | 6 | 1.23301 |
| Kdm7a | 0.002512226 | 0.015820962 | 0.272 | 0.218 | 1 | 6 | 1.247706 |
| Snrpe | 0.002535601 | 0.122818232 | 0.902 | 0.823 | 1 | 6 | 1.09599 |
| Cnot7 | 0.002562715 | 0.08789571 | 0.268 | 0.187 | 1 | 6 | 1.433155 |
| Epsti1 | 0.002563013 | 0.024096117 | 0.353 | 0.292 | 1 | 6 | 1.208904 |
| Mcrs1 | 0.002566078 | 0.063612687 | 0.335 | 0.27 | 1 | 6 | 1.240741 |
| Cope | 0.002567996 | 0.023117815 | 0.567 | 0.496 | 1 | 6 | 1.143145 |
| 1810037I17Rik | 0.002617911 | 0.024438081 | 0.647 | 0.579 | 1 | 6 | 1.117444 |
| Nsf | 0.002657428 | 0.058822851 | 0.281 | 0.214 | 1 | 6 | 1.313084 |
| Prpf6 | 0.002672942 | 0.131421524 | 0.286 | 0.193 | 1 | 6 | 1.481865 |
| Brap | 0.002675029 | 0.047849418 | 0.259 | 0.193 | 1 | 6 | 1.341969 |
| Chd1 | 0.002678207 | 0.098193175 | 0.487 | 0.404 | 1 | 6 | 1.205446 |
| Smim11 | 0.002701913 | 0.081667856 | 0.415 | 0.323 | 1 | 6 | 1.28483 |
| Atp5e | 0.002715453 | 0.119055704 | 0.964 | 0.945 | 1 | 6 | 1.020106 |
| Wdr61 | 0.002740148 | 0.050754727 | 0.308 | 0.25 | 1 | 6 | 1.232 |
| Uqcc2 | 0.002744951 | 0.081876602 | 0.496 | 0.393 | 1 | 6 | 1.262087 |
| Zfp106 | 0.002752862 | 0.085331521 | 0.312 | 0.235 | 1 | 6 | 1.32766 |
| Fam172a | 0.00281204 | 0.096033439 | 0.286 | 0.222 | 1 | 6 | 1.288288 |
| Cct5 | 0.002842865 | 0.063958736 | 0.795 | 0.69 | 1 | 6 | 1.152174 |
| mt-Cytb | 0.00287374 | 0.103497286 | 1 | 1 | 1 | 6 | 1 |
| Rabep1 | 0.00292526 | 0.091886722 | 0.254 | 0.17 | 1 | 6 | 1.494118 |
| Kdm5b | 0.002925568 | 0.086208171 | 0.281 | 0.199 | 1 | 6 | 1.41206 |
| Rbm5 | 0.002952791 | 0.046022866 | 0.585 | 0.503 | 1 | 6 | 1.163022 |
| Timm44 | 0.002968184 | 0.043344246 | 0.277 | 0.209 | 1 | 6 | 1.325359 |
| Smarca5 | 0.00304813 | 0.085452207 | 0.616 | 0.501 | 1 | 6 | 1.229541 |
| Srsf11 | 0.003065663 | 0.076842319 | 0.679 | 0.596 | 1 | 6 | 1.139262 |
| Arl6ip4 | 0.003098609 | 0.035326882 | 0.335 | 0.27 | 1 | 6 | 1.240741 |
| Atp5o | 0.00310502 | 0.014838012 | 0.835 | 0.75 | 1 | 6 | 1.113333 |
| Vdac3 | 0.003126404 | 0.099086389 | 0.455 | 0.348 | 1 | 6 | 1.307471 |
| Oxct1 | 0.003131291 | 0.036676004 | 0.379 | 0.308 | 1 | 6 | 1.230519 |
| Napa | 0.003147459 | 0.003826395 | 0.362 | 0.316 | 1 | 6 | 1.14557 |
| Ndufa11 | 0.003182988 | 0.089200966 | 0.656 | 0.549 | 1 | 6 | 1.1949 |
| Use1 | 0.003217016 | 0.054609349 | 0.759 | 0.691 | 1 | 6 | 1.098408 |
| Brd7 | 0.00322278 | 0.08985087 | 0.406 | 0.307 | 1 | 6 | 1.322476 |
| Kat6a | 0.003279647 | 0.035996043 | 0.286 | 0.227 | 1 | 6 | 1.259912 |
| Mrpl57 | 0.003321174 | 0.071061089 | 0.567 | 0.465 | 1 | 6 | 1.219355 |
| Ddx17 | 0.003354075 | 0.010009254 | 0.259 | 0.233 | 1 | 6 | 1.111588 |
| Angel2 | 0.003372275 | 0.036430565 | 0.33 | 0.265 | 1 | 6 | 1.245283 |
| Isg15 | 0.00337902 | 0.055297902 | 0.348 | 0.258 | 1 | 6 | 1.348837 |
| Cox14 | 0.003381569 | 0.063617213 | 0.71 | 0.605 | 1 | 6 | 1.173554 |
| Cnot2 | 0.003381574 | 0.053782082 | 0.29 | 0.23 | 1 | 6 | 1.26087 |
| Sbno1 | 0.003381891 | 0.016958807 | 0.513 | 0.445 | 1 | 6 | 1.152809 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Luc7l2 | 0.003413785 | 0.031340308 | 0.692 | 0.612 | 1 | 6 | 1.130719 |
| Tcp11l2 | 0.003522758 | 0.002316814 | 0.402 | 0.359 | 1 | 6 | 1.119777 |
| Slbp | 0.003537179 | 0.08031635 | 0.411 | 0.318 | 1 | 6 | 1.292453 |
| Frg1 | 0.003537469 | 0.098792679 | 0.491 | 0.43 | 1 | 6 | 1.14186 |
| Cbx3 | 0.003548584 | 0.047128929 | 0.629 | 0.55 | 1 | 6 | 1.143636 |
| Csnk1a1 | 0.003598476 | 0.131740931 | 0.75 | 0.65 | 1 | 6 | 1.153846 |
| Yme1l1 | 0.003614168 | 0.009963008 | 0.317 | 0.265 | 1 | 6 | 1.196226 |
| Zmat2 | 0.003638853 | 0.098953433 | 0.576 | 0.483 | 1 | 6 | 1.192547 |
| BC031181 | 0.003665012 | 0.026148369 | 0.509 | 0.449 | 1 | 6 | 1.13363 |
| Dnajc5 | 0.003669769 | 0.02152834 | 0.379 | 0.326 | 1 | 6 | 1.162577 |
| Scaf11 | 0.003704515 | 0.022877479 | 0.545 | 0.49 | 1 | 6 | 1.112245 |
| 0610011F06Rik | 0.003767883 | 0.01754155 | 0.357 | 0.298 | 1 | 6 | 1.197987 |
| Ddx47 | 0.003831272 | 0.062024577 | 0.259 | 0.187 | 1 | 6 | 1.385027 |
| Cisd2 | 0.003858638 | 0.00906077 | 0.46 | 0.404 | 1 | 6 | 1.138614 |
| Atg3 | 0.003890104 | 0.042082131 | 0.348 | 0.292 | 1 | 6 | 1.191781 |
| Rpn2 | 0.003909651 | 0.036400969 | 0.455 | 0.41 | 1 | 6 | 1.109756 |
| Serf2 | 0.003959827 | 0.081648167 | 0.991 | 0.991 | 1 | 6 | 1 |
| Dnaja1 | 0.004007925 | 0.023302245 | 0.83 | 0.745 | 1 | 6 | 1.114094 |
| Syf2 | 0.004045392 | 0.001240263 | 0.67 | 0.598 | 1 | 6 | 1.120401 |
| Mrps12 | 0.004049188 | 0.01516613 | 0.277 | 0.228 | 1 | 6 | 1.214912 |
| Sla | 0.00419768 | 0.136165461 | 0.268 | 0.183 | 1 | 6 | 1.464481 |
| Hp1bp3 | 0.004250788 | 0.09126966 | 0.612 | 0.513 | 1 | 6 | 1.192982 |
| Mcts1 | 0.00428937 | 0.011840179 | 0.362 | 0.319 | 1 | 6 | 1.134796 |
| Rpl28 | 0.004425645 | 0.022287972 | 1 | 1 | 1 | 6 | 1 |
| Drap1 | 0.004667275 | 0.089025991 | 0.478 | 0.401 | 1 | 6 | 1.19202 |
| Eed | 0.004669337 | 0.093736341 | 0.29 | 0.238 | 1 | 6 | 1.218487 |
| Pds5a | 0.004701676 | 0.042094433 | 0.268 | 0.209 | 1 | 6 | 1.282297 |
| Rgs19 | 0.004715207 | 0.03812595 | 0.388 | 0.331 | 1 | 6 | 1.172205 |
| Hnrnpc | 0.004718392 | 0.110050973 | 0.683 | 0.572 | 1 | 6 | 1.194056 |
| Trim26 | 0.004720737 | 0.031937033 | 0.295 | 0.257 | 1 | 6 | 1.14786 |
| Mrpl43 | 0.004798529 | 0.028650564 | 0.406 | 0.343 | 1 | 6 | 1.183673 |
| Il6ra | 0.004804491 | 0.078485048 | 0.469 | 0.41 | 1 | 6 | 1.143902 |
| Zbtb7a | 0.004811268 | 0.033213783 | 0.362 | 0.33 | 1 | 6 | 1.09697 |
| Emc10 | 0.004826643 | 0.077967165 | 0.58 | 0.475 | 1 | 6 | 1.221053 |
| Rab11b | 0.004911402 | 0.085487333 | 0.562 | 0.455 | 1 | 6 | 1.235165 |
| Nras | 0.005061801 | 0.017431943 | 0.375 | 0.318 | 1 | 6 | 1.179245 |
| Glr5 | 0.005063727 | 0.006765902 | 0.509 | 0.448 | 1 | 6 | 1.136161 |
| Gpatch8 | 0.005108717 | 0.052948685 | 0.33 | 0.259 | 1 | 6 | 1.274131 |
| Skp1a | 0.005131285 | 0.064511431 | 0.527 | 0.446 | 1 | 6 | 1.181614 |
| Ppp1cc | 0.005132104 | 0.124970162 | 0.79 | 0.696 | 1 | 6 | 1.135057 |
| Nsrp1 | 0.005188411 | 0.039124494 | 0.344 | 0.272 | 1 | 6 | 1.264706 |
| Pfdn5 | 0.005245165 | 0.115828169 | 0.987 | 0.976 | 1 | 6 | 1.01127 |
| Txn2 | 0.005252738 | 0.032086789 | 0.567 | 0.501 | 1 | 6 | 1.131737 |
| Rnf7 | 0.005314499 | 0.064465715 | 0.527 | 0.446 | 1 | 6 | 1.181614 |
| Gmfg | 0.005354564 | 0.024233686 | 0.839 | 0.884 | 1 | 6 | 0.949095 |
| Sep-06 | 0.005374299 | 0.081694572 | 0.629 | 0.532 | 1 | 6 | 1.182331 |
| Tmed9 | 0.005619306 | 0.038182455 | 0.643 | 0.592 | 1 | 6 | 1.086149 |

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|-----------|-------------|-------------|-------|-------|---|---|----------|
| Ankrd11 | 0.005700173 | 0.025037868 | 0.696 | 0.644 | 1 | 6 | 1.080745 |
| Grap | 0.005700533 | 0.036618882 | 0.554 | 0.465 | 1 | 6 | 1.191398 |
| Chchd10 | 0.005835141 | 0.14742263 | 0.357 | 0.255 | 1 | 6 | 1.4 |
| Limd1 | 0.005870256 | 0.070007119 | 0.295 | 0.226 | 1 | 6 | 1.30531 |
| Znrd1 | 0.005902064 | 0.007714882 | 0.371 | 0.321 | 1 | 6 | 1.155763 |
| Ndufb10 | 0.006054783 | 0.078916318 | 0.723 | 0.617 | 1 | 6 | 1.171799 |
| Wac | 0.006078638 | 0.016193923 | 0.299 | 0.262 | 1 | 6 | 1.141221 |
| Mpc2 | 0.006081908 | 0.060682086 | 0.504 | 0.421 | 1 | 6 | 1.19715 |
| Faap20 | 0.006103615 | 0.095389513 | 0.29 | 0.217 | 1 | 6 | 1.336406 |
| Hnrnp1 | 0.006130547 | 0.060958439 | 0.272 | 0.203 | 1 | 6 | 1.339901 |
| Srsf4 | 0.00616099 | 0.074693533 | 0.268 | 0.204 | 1 | 6 | 1.313725 |
| Mrpl17 | 0.006223625 | 0.047474041 | 0.353 | 0.279 | 1 | 6 | 1.265233 |
| Ssu72 | 0.006341728 | 0.059341065 | 0.661 | 0.605 | 1 | 6 | 1.092562 |
| Snx5 | 0.006342858 | 0.026476272 | 0.424 | 0.37 | 1 | 6 | 1.145946 |
| Idh3g | 0.006425443 | 0.067564007 | 0.42 | 0.338 | 1 | 6 | 1.242604 |
| Hsp90b1 | 0.006439595 | 0.105637927 | 0.612 | 0.53 | 1 | 6 | 1.154717 |
| Vasp | 0.006441873 | 0.140577815 | 0.871 | 0.814 | 1 | 6 | 1.070025 |
| Crif3 | 0.006647657 | 0.045437975 | 0.621 | 0.559 | 1 | 6 | 1.110912 |
| Tap2 | 0.006666523 | 0.040403819 | 0.571 | 0.483 | 1 | 6 | 1.182195 |
| Trappc4 | 0.006717271 | 0.007086773 | 0.42 | 0.378 | 1 | 6 | 1.111111 |
| Ccnl2 | 0.006723466 | 0.048701792 | 0.536 | 0.448 | 1 | 6 | 1.196429 |
| Gm42418 | 0.006740327 | 0.066343939 | 0.929 | 0.907 | 1 | 6 | 1.024256 |
| Anapc5 | 0.006776953 | 0.034705754 | 0.54 | 0.477 | 1 | 6 | 1.132075 |
| Nudt19 | 0.006798077 | 0.060181308 | 0.272 | 0.219 | 1 | 6 | 1.242009 |
| Slc50a1 | 0.006826491 | 0.012356371 | 0.491 | 0.438 | 1 | 6 | 1.121005 |
| Neu1 | 0.006991582 | 0.073048615 | 0.272 | 0.199 | 1 | 6 | 1.366834 |
| Cnn2 | 0.007008375 | 0.120693943 | 0.942 | 0.883 | 1 | 6 | 1.066818 |
| Ppp1r18 | 0.007120043 | 0.047048893 | 0.652 | 0.573 | 1 | 6 | 1.137871 |
| Mysm1 | 0.007262874 | 0.044943014 | 0.357 | 0.298 | 1 | 6 | 1.197987 |
| Ube2i | 0.007575889 | 0.12664235 | 0.754 | 0.653 | 1 | 6 | 1.154671 |
| Eny2 | 0.007656665 | 0.055345276 | 0.487 | 0.403 | 1 | 6 | 1.208437 |
| Stx16 | 0.007799468 | 0.079941634 | 0.406 | 0.322 | 1 | 6 | 1.26087 |
| Psemb4 | 0.007894821 | 0.051196824 | 0.638 | 0.543 | 1 | 6 | 1.174954 |
| Eif2s2 | 0.007960188 | 0.000939319 | 0.71 | 0.636 | 1 | 6 | 1.116352 |
| Arrb2 | 0.007960803 | 0.077325538 | 0.451 | 0.365 | 1 | 6 | 1.235616 |
| Rps12-ps3 | 0.008091064 | 0.05625262 | 0.5 | 0.427 | 1 | 6 | 1.17096 |
| Ppp1r35 | 0.008141022 | 0.068370153 | 0.299 | 0.226 | 1 | 6 | 1.323009 |
| Mapre1 | 0.008188387 | 0.112751832 | 0.576 | 0.486 | 1 | 6 | 1.185185 |
| Fam169b | 0.00835437 | 0.154098905 | 0.429 | 0.33 | 1 | 6 | 1.3 |
| Fgfr1op2 | 0.008367492 | 0.035879769 | 0.518 | 0.449 | 1 | 6 | 1.153675 |
| Tbca | 0.00847568 | 0.024910731 | 0.79 | 0.709 | 1 | 6 | 1.114245 |
| Rnf146 | 0.008571623 | 0.073947394 | 0.254 | 0.196 | 1 | 6 | 1.295918 |
| Wbp2 | 0.008689273 | 0.043431382 | 0.295 | 0.238 | 1 | 6 | 1.239496 |
| Phkg2 | 0.008692437 | 0.032215767 | 0.263 | 0.214 | 1 | 6 | 1.228972 |
| Uhrf2 | 0.008713057 | 0.058745517 | 0.295 | 0.225 | 1 | 6 | 1.311111 |
| Ptpn2 | 0.008716214 | 0.041865726 | 0.317 | 0.264 | 1 | 6 | 1.200758 |
| Eif3c | 0.008913895 | 0.022526577 | 0.679 | 0.606 | 1 | 6 | 1.120462 |

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|---------------|-------------|-------------|-------|-------|-----------|---|----------|
| Sfr1 | 0.008915079 | 0.116327033 | 0.58 | 0.472 | 1 | 6 | 1.228814 |
| Hmgn1 | 0.009036768 | 0.086944998 | 0.71 | 0.62 | 1 | 6 | 1.145161 |
| Trp53 | 0.00914436 | 0.106272629 | 0.719 | 0.609 | 1 | 6 | 1.180624 |
| Mrps9 | 0.009198836 | 0.052822393 | 0.304 | 0.234 | 1 | 6 | 1.299145 |
| Gimap9 | 0.009277705 | 0.024968269 | 0.625 | 0.556 | 1 | 6 | 1.124101 |
| Mrpl35 | 0.009287637 | 0.017677072 | 0.304 | 0.261 | 1 | 6 | 1.164751 |
| Cnot1 | 0.009374148 | 0.084391474 | 0.29 | 0.209 | 1 | 6 | 1.38756 |
| Sap18 | 0.009396764 | 0.036630731 | 0.607 | 0.537 | 1 | 6 | 1.130354 |
| Arf1 | 0.009452533 | 0.120154276 | 0.804 | 0.711 | 1 | 6 | 1.130802 |
| Ddx39b | 0.009465639 | 0.002460051 | 0.629 | 0.577 | 1 | 6 | 1.090121 |
| Cnot6l | 0.009521508 | 0.031201633 | 0.438 | 0.377 | 1 | 6 | 1.161804 |
| Crebrf | 0.009661184 | 0.056234996 | 0.268 | 0.207 | 1 | 6 | 1.294686 |
| Tsnax | 0.009759081 | 0.001333796 | 0.263 | 0.227 | 1 | 6 | 1.15859 |
| Ctbp1 | 0.009869782 | 0.089099176 | 0.598 | 0.498 | 1 | 6 | 1.200803 |
| Pabpc1 | 0.009969675 | 0.100955267 | 0.996 | 0.983 | 1 | 6 | 1.013225 |
| Ikzf2 | 3.83E-178 | 1.728280524 | 0.829 | 0.067 | 3.81E-174 | 7 | 12.37313 |
| Izumo1r | 5.25E-178 | 1.6649264 | 0.923 | 0.211 | 5.22E-174 | 7 | 4.374408 |
| Gpr83 | 4.11E-129 | 1.203523693 | 0.585 | 0.04 | 4.09E-125 | 7 | 14.625 |
| Tnfrsf4 | 7.60E-127 | 1.28610348 | 0.761 | 0.093 | 7.56E-123 | 7 | 8.182796 |
| Il2ra | 1.04E-118 | 1.08201813 | 0.517 | 0.021 | 1.03E-114 | 7 | 24.61905 |
| Rgs1 | 1.19E-112 | 1.524869633 | 0.487 | 0.053 | 1.19E-108 | 7 | 9.188679 |
| Foxp3 | 3.55E-98 | 0.83869824 | 0.479 | 0.025 | 3.53E-94 | 7 | 19.16 |
| Socs2 | 1.60E-82 | 0.808060985 | 0.363 | 0.014 | 1.59E-78 | 7 | 25.92857 |
| Ecm1 | 6.46E-78 | 0.862333001 | 0.491 | 0.07 | 6.42E-74 | 7 | 7.014286 |
| Tnfrsf18 | 1.09E-76 | 0.891365145 | 0.786 | 0.371 | 1.09E-72 | 7 | 2.118598 |
| Capg | 4.59E-70 | 0.950354713 | 0.739 | 0.27 | 4.56E-66 | 7 | 2.737037 |
| Cyp4f18 | 2.56E-60 | 0.95380815 | 0.252 | 0.023 | 2.54E-56 | 7 | 10.95652 |
| Pim1 | 1.18E-58 | 0.864974944 | 0.632 | 0.248 | 1.17E-54 | 7 | 2.548387 |
| Samhd1 | 1.85E-51 | 0.69737317 | 0.88 | 0.551 | 1.84E-47 | 7 | 1.597096 |
| Smc4 | 3.78E-48 | 0.707203563 | 0.897 | 0.633 | 3.75E-44 | 7 | 1.417062 |
| Cish | 7.06E-47 | 0.616896757 | 0.321 | 0.037 | 7.01E-43 | 7 | 8.675676 |
| Ift80 | 2.68E-43 | 0.586599932 | 0.432 | 0.092 | 2.66E-39 | 7 | 4.695652 |
| Ikzf4 | 1.63E-41 | 0.453529986 | 0.261 | 0.023 | 1.62E-37 | 7 | 11.34783 |
| Tiam1 | 5.82E-39 | 0.486333717 | 0.286 | 0.032 | 5.78E-35 | 7 | 8.9375 |
| Ifi27l2a | 7.35E-39 | 0.652761755 | 0.991 | 0.878 | 7.30E-35 | 7 | 1.128702 |
| Fam169b | 5.66E-35 | 0.534031919 | 0.556 | 0.324 | 5.62E-31 | 7 | 1.716049 |
| Socs1 | 8.15E-35 | 0.565136163 | 0.453 | 0.223 | 8.11E-31 | 7 | 2.03139 |
| Tspan32 | 9.95E-35 | 0.590372795 | 0.803 | 0.473 | 9.89E-31 | 7 | 1.697674 |
| Cd81 | 1.11E-33 | 0.589028991 | 0.5 | 0.165 | 1.10E-29 | 7 | 3.030303 |
| Il2rb | 1.20E-33 | 0.556500597 | 0.427 | 0.141 | 1.20E-29 | 7 | 3.028369 |
| Chchd10 | 1.34E-32 | 0.56062224 | 0.543 | 0.247 | 1.33E-28 | 7 | 2.198381 |
| Ptms | 5.86E-32 | 0.569304368 | 0.419 | 0.131 | 5.83E-28 | 7 | 3.198473 |
| Gbp3 | 1.22E-30 | 0.500726738 | 0.308 | 0.078 | 1.21E-26 | 7 | 3.948718 |
| Ccdc22 | 1.29E-30 | 0.453868523 | 0.303 | 0.107 | 1.28E-26 | 7 | 2.831776 |
| 2810474O19Rik | 7.63E-30 | 0.548763209 | 0.641 | 0.401 | 7.58E-26 | 7 | 1.598504 |
| Pou2f2 | 1.59E-29 | 0.57694812 | 0.487 | 0.177 | 1.58E-25 | 7 | 2.751412 |
| Igf2r | 1.82E-29 | 0.471978388 | 0.316 | 0.101 | 1.81E-25 | 7 | 3.128713 |

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|---------------|----------|-------------|-------|-------|----------|---|----------|
| Sapcd1 | 4.30E-28 | 0.627622537 | 0.269 | 0.048 | 4.28E-24 | 7 | 5.604167 |
| Id3 | 4.59E-26 | 0.588668726 | 0.573 | 0.243 | 4.57E-22 | 7 | 2.358025 |
| Cd2 | 2.82E-24 | 0.404676487 | 0.94 | 0.862 | 2.81E-20 | 7 | 1.090487 |
| Fabp5 | 4.91E-24 | 0.536469968 | 0.329 | 0.123 | 4.88E-20 | 7 | 2.674797 |
| Mxd4 | 1.03E-23 | 0.506751241 | 0.534 | 0.314 | 1.03E-19 | 7 | 1.700637 |
| 1600014C10Rik | 5.99E-23 | 0.38561369 | 0.35 | 0.196 | 5.95E-19 | 7 | 1.785714 |
| Bcl2 | 1.39E-22 | 0.477286326 | 0.927 | 0.755 | 1.38E-18 | 7 | 1.227815 |
| Tmsb4x | 2.45E-22 | 0.152613054 | 1 | 1 | 2.44E-18 | 7 | 1 |
| Ccs | 3.19E-22 | 0.400578255 | 0.432 | 0.217 | 3.17E-18 | 7 | 1.990783 |
| Rcn1 | 5.23E-22 | 0.398777674 | 0.389 | 0.191 | 5.20E-18 | 7 | 2.036649 |
| Eno3 | 1.49E-21 | 0.404894682 | 0.252 | 0.061 | 1.48E-17 | 7 | 4.131148 |
| Spcs2 | 1.82E-21 | 0.362621456 | 0.88 | 0.754 | 1.81E-17 | 7 | 1.167109 |
| Bmyc | 1.87E-21 | 0.379328472 | 0.419 | 0.221 | 1.86E-17 | 7 | 1.895928 |
| Hdac1 | 3.06E-21 | 0.409254775 | 0.628 | 0.418 | 3.05E-17 | 7 | 1.502392 |
| Cyb5a | 3.96E-21 | 0.388655512 | 0.778 | 0.634 | 3.94E-17 | 7 | 1.227129 |
| Snx3 | 4.01E-20 | 0.351198466 | 0.641 | 0.478 | 3.98E-16 | 7 | 1.341004 |
| H2afz | 7.41E-20 | 0.382785725 | 0.923 | 0.864 | 7.36E-16 | 7 | 1.068287 |
| Arl6ip1 | 2.59E-19 | 0.361131876 | 0.838 | 0.72 | 2.57E-15 | 7 | 1.163889 |
| Rhoh | 4.86E-19 | 0.374645044 | 0.872 | 0.763 | 4.83E-15 | 7 | 1.142857 |
| Gbp7 | 7.42E-19 | 0.445787623 | 0.53 | 0.358 | 7.37E-15 | 7 | 1.480447 |
| Chd3 | 1.56E-17 | 0.380595668 | 0.872 | 0.709 | 1.55E-13 | 7 | 1.229901 |
| Gm10093 | 1.42E-16 | 0.368982869 | 0.5 | 0.318 | 1.41E-12 | 7 | 1.572327 |
| Itm2c | 2.40E-16 | 0.35823442 | 0.521 | 0.344 | 2.38E-12 | 7 | 1.514535 |
| Inpp4b | 4.63E-16 | 0.375673194 | 0.641 | 0.456 | 4.60E-12 | 7 | 1.405702 |
| 2310001H17Rik | 7.29E-16 | 0.398520405 | 0.47 | 0.276 | 7.24E-12 | 7 | 1.702899 |
| Xbp1 | 1.35E-15 | 0.344155661 | 0.325 | 0.152 | 1.34E-11 | 7 | 2.138158 |
| Slamf1 | 3.15E-15 | 0.302654726 | 0.269 | 0.081 | 3.13E-11 | 7 | 3.320988 |
| Atpif1 | 3.21E-15 | 0.353240415 | 0.496 | 0.316 | 3.19E-11 | 7 | 1.56962 |
| Tgfb1 | 5.22E-15 | 0.314843923 | 0.269 | 0.084 | 5.19E-11 | 7 | 3.202381 |
| Ldhb | 6.87E-15 | 0.38150599 | 0.376 | 0.16 | 6.83E-11 | 7 | 2.35 |
| Cd5 | 9.02E-15 | 0.380644688 | 0.637 | 0.395 | 8.96E-11 | 7 | 1.612658 |
| Rgs10 | 1.01E-14 | 0.344077018 | 0.889 | 0.793 | 1.00E-10 | 7 | 1.121059 |
| Ssbp2 | 1.40E-14 | 0.348576959 | 0.41 | 0.254 | 1.40E-10 | 7 | 1.614173 |
| Ctss | 4.02E-14 | 0.342577641 | 0.731 | 0.579 | 3.99E-10 | 7 | 1.262522 |
| Traf1 | 5.01E-14 | 0.368760981 | 0.47 | 0.295 | 4.98E-10 | 7 | 1.59322 |
| Prkca | 8.90E-14 | 0.325679241 | 0.397 | 0.234 | 8.85E-10 | 7 | 1.696581 |
| Malat1 | 9.66E-14 | 0.142553386 | 1 | 1 | 9.60E-10 | 7 | 1 |
| Rps11 | 1.00E-13 | 0.146827841 | 1 | 1 | 9.99E-10 | 7 | 1 |
| Wdr82 | 1.70E-13 | 0.312432719 | 0.312 | 0.161 | 1.69E-09 | 7 | 1.937888 |
| Ahcyl2 | 2.98E-13 | 0.29699687 | 0.363 | 0.197 | 2.97E-09 | 7 | 1.84264 |
| Itm2b | 4.32E-13 | 0.255549063 | 0.987 | 0.97 | 4.29E-09 | 7 | 1.017526 |
| Jund | 6.20E-13 | 0.340329201 | 0.748 | 0.573 | 6.17E-09 | 7 | 1.30541 |
| Arid5b | 9.01E-13 | 0.368179081 | 0.355 | 0.176 | 8.96E-09 | 7 | 2.017045 |
| Gpx4 | 1.14E-12 | 0.295692288 | 0.795 | 0.702 | 1.14E-08 | 7 | 1.132479 |
| Casp8 | 2.63E-12 | 0.32683287 | 0.581 | 0.423 | 2.62E-08 | 7 | 1.373522 |
| Nrip1 | 3.36E-12 | 0.346023985 | 0.415 | 0.248 | 3.34E-08 | 7 | 1.673387 |
| H2-D1 | 3.47E-12 | 0.147389547 | 1 | 1 | 3.45E-08 | 7 | 1 |

| | | | | | | | |
|----------|----------|-------------|-------|-------|-------------|---|----------|
| Znrf1 | 4.70E-12 | 0.328266602 | 0.47 | 0.294 | 4.67E-08 | 7 | 1.598639 |
| Zfp281 | 8.80E-12 | 0.220768695 | 0.35 | 0.275 | 8.75E-08 | 7 | 1.272727 |
| Prdx2 | 1.07E-11 | 0.298508099 | 0.504 | 0.356 | 1.06E-07 | 7 | 1.41573 |
| Akap13 | 1.20E-11 | 0.283742059 | 0.774 | 0.677 | 1.19E-07 | 7 | 1.143279 |
| Tasp1 | 1.90E-11 | 0.286905548 | 0.265 | 0.098 | 1.89E-07 | 7 | 2.704082 |
| Tbca | 2.30E-11 | 0.256955323 | 0.795 | 0.709 | 2.29E-07 | 7 | 1.121298 |
| Eno1 | 2.52E-11 | 0.271254542 | 0.902 | 0.872 | 2.50E-07 | 7 | 1.034404 |
| Adgre5 | 3.46E-11 | 0.299038384 | 0.462 | 0.323 | 3.44E-07 | 7 | 1.430341 |
| Pdia3 | 3.54E-11 | 0.282240478 | 0.85 | 0.732 | 3.52E-07 | 7 | 1.161202 |
| Pik3r1 | 4.07E-11 | 0.23882767 | 0.5 | 0.413 | 4.04E-07 | 7 | 1.210654 |
| Vim | 7.81E-11 | 0.340128228 | 0.748 | 0.633 | 7.76E-07 | 7 | 1.181675 |
| Nxpe3 | 8.48E-11 | 0.330599091 | 0.423 | 0.226 | 8.43E-07 | 7 | 1.871681 |
| Plp2 | 2.57E-10 | 0.274823328 | 0.265 | 0.114 | 2.56E-06 | 7 | 2.324561 |
| Rnaset2a | 5.97E-10 | 0.252146586 | 0.88 | 0.816 | 5.94E-06 | 7 | 1.078431 |
| Cyba | 6.15E-10 | 0.265728401 | 0.936 | 0.861 | 6.11E-06 | 7 | 1.087108 |
| Traf3ip3 | 6.22E-10 | 0.24362961 | 0.611 | 0.515 | 6.19E-06 | 7 | 1.186408 |
| Atp2b1 | 6.96E-10 | 0.315685773 | 0.44 | 0.282 | 6.91E-06 | 7 | 1.560284 |
| Adk | 7.96E-10 | 0.308780707 | 0.355 | 0.188 | 7.91E-06 | 7 | 1.888298 |
| Ncoa3 | 8.28E-10 | 0.264856007 | 0.269 | 0.173 | 8.23E-06 | 7 | 1.554913 |
| Twf2 | 8.38E-10 | 0.239530785 | 0.496 | 0.408 | 8.33E-06 | 7 | 1.215686 |
| N6amt2 | 1.07E-09 | 0.271669852 | 0.376 | 0.221 | 1.06E-05 | 7 | 1.701357 |
| Ftl1 | 1.69E-09 | 0.202353568 | 0.983 | 0.992 | 1.68E-05 | 7 | 0.990927 |
| Map1lc3b | 3.74E-09 | 0.260243224 | 0.786 | 0.632 | 3.71E-05 | 7 | 1.243671 |
| Thap3 | 4.19E-09 | 0.226161997 | 0.402 | 0.308 | 4.17E-05 | 7 | 1.305195 |
| S100a10 | 4.95E-09 | 0.225031252 | 0.868 | 0.814 | 4.92E-05 | 7 | 1.066339 |
| Ankrd12 | 5.16E-09 | 0.293196493 | 0.632 | 0.466 | 5.13E-05 | 7 | 1.356223 |
| Cytip | 5.24E-09 | 0.267091933 | 0.765 | 0.667 | 5.20E-05 | 7 | 1.146927 |
| Ubb | 6.20E-09 | 0.141235239 | 1 | 1 | 6.16E-05 | 7 | 1 |
| Sdf4 | 1.06E-08 | 0.248575856 | 0.688 | 0.597 | 0.000104895 | 7 | 1.152429 |
| Ifi35 | 1.47E-08 | 0.209306961 | 0.479 | 0.396 | 0.00014613 | 7 | 1.209596 |
| Cmtm7 | 1.53E-08 | 0.284357949 | 0.299 | 0.143 | 0.000152059 | 7 | 2.090909 |
| Tank | 1.71E-08 | 0.259354729 | 0.295 | 0.146 | 0.000169673 | 7 | 2.020548 |
| Bcl11b | 1.71E-08 | 0.261467903 | 0.859 | 0.773 | 0.000170067 | 7 | 1.111255 |
| Ncoa7 | 1.83E-08 | 0.274766919 | 0.256 | 0.142 | 0.000182076 | 7 | 1.802817 |
| Ltb | 1.88E-08 | 0.240615441 | 0.996 | 0.988 | 0.000186829 | 7 | 1.008097 |
| Lbh | 1.93E-08 | 0.278040331 | 0.65 | 0.496 | 0.000192296 | 7 | 1.310484 |
| Ddx5 | 2.31E-08 | 0.186786467 | 0.996 | 0.988 | 0.00022995 | 7 | 1.008097 |
| Slc9a3r1 | 2.89E-08 | 0.248833852 | 0.692 | 0.583 | 0.000287628 | 7 | 1.186964 |
| Tgfb1 | 2.93E-08 | 0.284510415 | 0.564 | 0.398 | 0.0002914 | 7 | 1.417085 |
| Zdhhc20 | 3.37E-08 | 0.188699357 | 0.41 | 0.378 | 0.000335383 | 7 | 1.084656 |
| Asap1 | 5.11E-08 | 0.275960568 | 0.474 | 0.339 | 0.000507682 | 7 | 1.39823 |
| ligp1 | 5.83E-08 | 0.355842516 | 0.308 | 0.16 | 0.000579565 | 7 | 1.925 |
| Klf6 | 7.13E-08 | 0.255459637 | 0.432 | 0.288 | 0.000708941 | 7 | 1.5 |
| Cd6 | 7.71E-08 | 0.215098034 | 0.615 | 0.431 | 0.000766567 | 7 | 1.426914 |
| Lamp1 | 8.57E-08 | 0.229575764 | 0.568 | 0.472 | 0.00085224 | 7 | 1.20339 |
| Gbp2b | 8.71E-08 | 0.268010555 | 0.265 | 0.179 | 0.000865607 | 7 | 1.480447 |
| Huwe1 | 9.35E-08 | 0.252481444 | 0.397 | 0.261 | 0.000928904 | 7 | 1.521073 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Nfkbia | 9.87E-08 | 0.28973446 | 0.709 | 0.575 | 0.000980838 | 7 | 1.233043 |
| Cd48 | 1.11E-07 | 0.234435837 | 0.628 | 0.54 | 0.001101994 | 7 | 1.162963 |
| Mum1 | 1.14E-07 | 0.190519681 | 0.252 | 0.183 | 0.001135842 | 7 | 1.377049 |
| Vamp8 | 1.16E-07 | 0.1730642 | 0.526 | 0.488 | 0.001152821 | 7 | 1.077869 |
| Pdia4 | 1.66E-07 | 0.236873618 | 0.423 | 0.294 | 0.001652119 | 7 | 1.438776 |
| Rel | 1.92E-07 | 0.270120144 | 0.346 | 0.189 | 0.001905267 | 7 | 1.830688 |
| Ptprcap | 2.01E-07 | 0.194941998 | 0.974 | 0.967 | 0.001997382 | 7 | 1.007239 |
| Gapdh | 2.31E-07 | 0.220421346 | 0.846 | 0.806 | 0.002300084 | 7 | 1.049628 |
| Maz | 5.19E-07 | 0.23978033 | 0.325 | 0.185 | 0.005163652 | 7 | 1.756757 |
| Gnpnat1 | 5.36E-07 | 0.198545832 | 0.265 | 0.156 | 0.005324173 | 7 | 1.698718 |
| Tpm4 | 6.18E-07 | 0.204733363 | 0.393 | 0.31 | 0.006147039 | 7 | 1.267742 |
| Tmem123 | 6.19E-07 | 0.228404464 | 0.47 | 0.353 | 0.006149274 | 7 | 1.331445 |
| Spint2 | 6.56E-07 | 0.226289699 | 0.56 | 0.443 | 0.006524801 | 7 | 1.264108 |
| Tceb2 | 6.80E-07 | 0.183426134 | 0.872 | 0.835 | 0.006757038 | 7 | 1.044311 |
| H2-K1 | 6.81E-07 | 0.172584762 | 0.996 | 0.998 | 0.006772338 | 7 | 0.997996 |
| Anp32a | 7.65E-07 | 0.209767174 | 0.902 | 0.859 | 0.007608723 | 7 | 1.050058 |
| Sfr1 | 8.30E-07 | 0.249150619 | 0.615 | 0.47 | 0.008251591 | 7 | 1.308511 |
| Clec2d | 8.67E-07 | 0.224775569 | 0.543 | 0.431 | 0.008622538 | 7 | 1.259861 |
| Exosc8 | 8.71E-07 | 0.101867878 | 0.38 | 0.368 | 0.008658641 | 7 | 1.032609 |
| Fundc2 | 8.91E-07 | 0.189767259 | 0.44 | 0.366 | 0.008854899 | 7 | 1.202186 |
| Sdhaf1 | 1.04E-06 | 0.24462781 | 0.342 | 0.197 | 0.010351027 | 7 | 1.736041 |
| Syng2 | 1.21E-06 | 0.201951836 | 0.265 | 0.176 | 0.012012177 | 7 | 1.505682 |
| Birc3 | 1.66E-06 | 0.194115861 | 0.252 | 0.156 | 0.016510029 | 7 | 1.615385 |
| Ypel3 | 1.94E-06 | 0.228875396 | 0.782 | 0.662 | 0.019323196 | 7 | 1.181269 |
| Sigirr | 2.08E-06 | 0.226943892 | 0.333 | 0.204 | 0.020697208 | 7 | 1.632353 |
| Commd4 | 2.36E-06 | 0.200637491 | 0.415 | 0.321 | 0.02349829 | 7 | 1.292835 |
| Smap1 | 2.40E-06 | 0.225042449 | 0.397 | 0.296 | 0.023820724 | 7 | 1.341216 |
| Atp5c1 | 2.65E-06 | 0.188482031 | 0.838 | 0.794 | 0.026307895 | 7 | 1.055416 |
| Mrps18c | 2.70E-06 | 0.15330337 | 0.444 | 0.372 | 0.026848991 | 7 | 1.193548 |
| St13 | 2.93E-06 | 0.223153467 | 0.521 | 0.419 | 0.029116897 | 7 | 1.243437 |
| Gimap7 | 2.95E-06 | 0.227919298 | 0.637 | 0.536 | 0.029281219 | 7 | 1.188433 |
| Shisa5 | 2.95E-06 | 0.148439342 | 0.996 | 0.999 | 0.029365322 | 7 | 0.996997 |
| Ralbp1 | 3.34E-06 | 0.225764349 | 0.517 | 0.39 | 0.033222932 | 7 | 1.325641 |
| Zfp36l1 | 3.42E-06 | 0.241389317 | 0.432 | 0.333 | 0.034030502 | 7 | 1.297297 |
| Vrk1 | 3.58E-06 | 0.213493886 | 0.419 | 0.295 | 0.035567863 | 7 | 1.420339 |
| Tnfrsf25 | 4.03E-06 | 0.232431387 | 0.308 | 0.179 | 0.040026949 | 7 | 1.72067 |
| Samsn1 | 4.15E-06 | 0.195629509 | 0.308 | 0.166 | 0.041283411 | 7 | 1.855422 |
| Mcl1 | 4.18E-06 | 0.222018133 | 0.474 | 0.368 | 0.04153426 | 7 | 1.288043 |
| Rnh1 | 4.27E-06 | 0.215725669 | 0.333 | 0.197 | 0.042430648 | 7 | 1.690355 |
| Ctsz | 4.90E-06 | 0.198856659 | 0.299 | 0.202 | 0.048734725 | 7 | 1.480198 |
| Usp3 | 4.91E-06 | 0.208063079 | 0.419 | 0.327 | 0.048833034 | 7 | 1.281346 |
| Cdc42se2 | 5.58E-06 | 0.172680402 | 0.474 | 0.418 | 0.05543012 | 7 | 1.133971 |
| Herpud1 | 5.67E-06 | 0.179818168 | 0.346 | 0.259 | 0.056409411 | 7 | 1.335907 |
| Tnip1 | 5.75E-06 | 0.212533608 | 0.269 | 0.147 | 0.057157649 | 7 | 1.829932 |
| Ctdspl2 | 5.86E-06 | 0.18101642 | 0.274 | 0.198 | 0.058292383 | 7 | 1.383838 |
| Psmb8 | 5.87E-06 | 0.166686972 | 0.974 | 0.97 | 0.058348091 | 7 | 1.004124 |
| Mllt3 | 6.15E-06 | 0.228512882 | 0.385 | 0.277 | 0.061093291 | 7 | 1.389892 |

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|----------|-------------|-------------|-------|-------|-------------|---|----------|
| Pkp3 | 6.57E-06 | 0.245356703 | 0.393 | 0.285 | 0.065258162 | 7 | 1.378947 |
| Kras | 7.64E-06 | 0.226277129 | 0.56 | 0.452 | 0.075943278 | 7 | 1.238938 |
| Rabgap1l | 7.76E-06 | 0.223114472 | 0.35 | 0.237 | 0.077107484 | 7 | 1.476793 |
| Ctsb | 7.80E-06 | 0.219712659 | 0.449 | 0.307 | 0.077498971 | 7 | 1.462541 |
| Cnpy2 | 7.80E-06 | 0.172015698 | 0.299 | 0.208 | 0.077556066 | 7 | 1.4375 |
| Hibadh | 9.37E-06 | 0.117932908 | 0.261 | 0.236 | 0.093144756 | 7 | 1.105932 |
| Itpkb | 9.99E-06 | 0.18676392 | 0.397 | 0.316 | 0.099283037 | 7 | 1.256329 |
| Rac1 | 1.12E-05 | 0.194888359 | 0.748 | 0.669 | 0.111431597 | 7 | 1.118087 |
| Gata3 | 1.13E-05 | 0.216631894 | 0.286 | 0.167 | 0.111892563 | 7 | 1.712575 |
| Ap2m1 | 1.16E-05 | 0.188963603 | 0.521 | 0.439 | 0.114950512 | 7 | 1.186788 |
| Cops6 | 1.20E-05 | 0.156014438 | 0.513 | 0.467 | 0.119092033 | 7 | 1.098501 |
| Ndufa13 | 1.29E-05 | 0.174563952 | 0.868 | 0.78 | 0.1281679 | 7 | 1.112821 |
| Nabp1 | 1.79E-05 | 0.208845735 | 0.269 | 0.157 | 0.178045369 | 7 | 1.713376 |
| Pdia6 | 1.86E-05 | 0.193083232 | 0.466 | 0.375 | 0.184681861 | 7 | 1.242667 |
| Ppm1m | 2.14E-05 | 0.194593361 | 0.291 | 0.189 | 0.213170778 | 7 | 1.539683 |
| Rab11b | 2.52E-05 | 0.189373777 | 0.534 | 0.456 | 0.250617079 | 7 | 1.171053 |
| Pnrc1 | 2.76E-05 | 0.202770607 | 0.808 | 0.7 | 0.274678678 | 7 | 1.154286 |
| Cd28 | 2.96E-05 | 0.187320624 | 0.551 | 0.5 | 0.293900348 | 7 | 1.102 |
| Cyth4 | 3.08E-05 | 0.194870031 | 0.291 | 0.186 | 0.306639099 | 7 | 1.564516 |
| Ifnar1 | 3.15E-05 | 0.173383629 | 0.346 | 0.273 | 0.313189574 | 7 | 1.267399 |
| Trappc3 | 3.26E-05 | 0.202928689 | 0.355 | 0.239 | 0.324490962 | 7 | 1.485356 |
| Cast | 3.33E-05 | 0.194821548 | 0.368 | 0.28 | 0.330852175 | 7 | 1.314286 |
| Eva1b | 3.35E-05 | 0.207195314 | 0.346 | 0.224 | 0.332950525 | 7 | 1.544643 |
| Actr10 | 3.48E-05 | 0.202401439 | 0.402 | 0.293 | 0.34544148 | 7 | 1.372014 |
| Ndfip2 | 3.52E-05 | 0.18791661 | 0.376 | 0.261 | 0.34999694 | 7 | 1.440613 |
| Rexo2 | 3.72E-05 | 0.174967247 | 0.641 | 0.579 | 0.369471014 | 7 | 1.107081 |
| Btg1 | 5.14E-05 | 0.17188967 | 0.987 | 0.983 | 0.510576917 | 7 | 1.004069 |
| Mgst2 | 5.24E-05 | 0.197571768 | 0.303 | 0.212 | 0.520559754 | 7 | 1.429245 |
| Dok2 | 5.76E-05 | 0.17480486 | 0.577 | 0.534 | 0.572725786 | 7 | 1.080524 |
| St8sia4 | 5.99E-05 | 0.201553283 | 0.295 | 0.184 | 0.595200008 | 7 | 1.603261 |
| Ass1 | 6.44E-05 | 0.236988065 | 0.521 | 0.384 | 0.640509737 | 7 | 1.356771 |
| Ttc3 | 6.73E-05 | 0.19805638 | 0.393 | 0.307 | 0.668751188 | 7 | 1.28013 |
| Dhx9 | 6.95E-05 | 0.050234928 | 0.274 | 0.267 | 0.691236257 | 7 | 1.026217 |
| Eif3f | 7.03E-05 | 0.143720765 | 0.987 | 0.977 | 0.698892405 | 7 | 1.010235 |
| Phc3 | 7.23E-05 | 0.195011954 | 0.256 | 0.142 | 0.718320577 | 7 | 1.802817 |
| Cops5 | 7.28E-05 | 0.041049443 | 0.248 | 0.258 | 0.724064817 | 7 | 0.96124 |
| Lsp1 | 7.29E-05 | 0.154283592 | 0.936 | 0.851 | 0.724736322 | 7 | 1.099882 |
| Nek7 | 7.97E-05 | 0.208686695 | 0.368 | 0.237 | 0.791935167 | 7 | 1.552743 |
| Itga6 | 8.09E-05 | 0.197562154 | 0.308 | 0.196 | 0.804161173 | 7 | 1.571429 |
| Tmem192 | 8.27E-05 | 0.137328778 | 0.265 | 0.213 | 0.821547853 | 7 | 1.244131 |
| Mkln1 | 8.49E-05 | 0.202903502 | 0.38 | 0.25 | 0.843845482 | 7 | 1.52 |
| Fth1 | 9.10E-05 | 0.121931524 | 1 | 0.997 | 0.904924138 | 7 | 1.003009 |
| Il6ra | 9.42E-05 | 0.155897779 | 0.449 | 0.411 | 0.936575078 | 7 | 1.092457 |
| Bst2 | 0.000100821 | 0.08469452 | 0.402 | 0.441 | 1 | 7 | 0.911565 |
| Phip | 0.000109833 | 0.151829336 | 0.372 | 0.32 | 1 | 7 | 1.1625 |
| Tmem173 | 0.000111685 | 0.191952863 | 0.346 | 0.223 | 1 | 7 | 1.55157 |
| Ap3b1 | 0.000112471 | 0.159218108 | 0.261 | 0.162 | 1 | 7 | 1.611111 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Smc6 | 0.000119162 | 0.185912588 | 0.949 | 0.941 | 1 | 7 | 1.008502 |
| Gltscr2 | 0.000122625 | 0.160899751 | 0.932 | 0.915 | 1 | 7 | 1.018579 |
| Tax1bp1 | 0.000127167 | 0.192743615 | 0.748 | 0.647 | 1 | 7 | 1.156105 |
| Hnrnpk | 0.00012826 | 0.166683144 | 0.936 | 0.893 | 1 | 7 | 1.048152 |
| Chmp3 | 0.000129661 | 0.097078564 | 0.265 | 0.238 | 1 | 7 | 1.113445 |
| Gnb2 | 0.000133997 | 0.17386686 | 0.705 | 0.639 | 1 | 7 | 1.103286 |
| Glrx3 | 0.000138673 | 0.158915265 | 0.496 | 0.431 | 1 | 7 | 1.150812 |
| Gpi1 | 0.000148582 | 0.140907683 | 0.658 | 0.628 | 1 | 7 | 1.047771 |
| Csnk2a1 | 0.00014972 | 0.052866533 | 0.415 | 0.445 | 1 | 7 | 0.932584 |
| Map2k2 | 0.000156791 | 0.185439237 | 0.603 | 0.458 | 1 | 7 | 1.316594 |
| H2-T23 | 0.000158854 | 0.146158717 | 0.786 | 0.788 | 1 | 7 | 0.997462 |
| Snx6 | 0.0001648 | 0.131726073 | 0.312 | 0.265 | 1 | 7 | 1.177358 |
| Ptpn1 | 0.000168378 | 0.170877416 | 0.547 | 0.472 | 1 | 7 | 1.158898 |
| Gimap3 | 0.000181665 | 0.169644522 | 0.812 | 0.789 | 1 | 7 | 1.029151 |
| Atp5j | 0.000206386 | 0.142964632 | 0.85 | 0.832 | 1 | 7 | 1.021635 |
| Cab39 | 0.000214447 | 0.162185445 | 0.333 | 0.253 | 1 | 7 | 1.316206 |
| Mif4gd | 0.000228273 | 0.192426961 | 0.329 | 0.207 | 1 | 7 | 1.589372 |
| Xlr4b | 0.000228492 | 0.041290775 | 0.291 | 0.311 | 1 | 7 | 0.935691 |
| Cwc15 | 0.000231978 | 0.173762434 | 0.564 | 0.484 | 1 | 7 | 1.165289 |
| Ilk | 0.000232021 | 0.123333146 | 0.308 | 0.266 | 1 | 7 | 1.157895 |
| Reep5 | 0.000234793 | 0.204036187 | 0.517 | 0.414 | 1 | 7 | 1.248792 |
| Ube2b | 0.000235801 | 0.175475541 | 0.705 | 0.601 | 1 | 7 | 1.173045 |
| Sat1 | 0.000240427 | 0.198200804 | 0.611 | 0.491 | 1 | 7 | 1.244399 |
| Pak2 | 0.000241965 | 0.175014657 | 0.59 | 0.515 | 1 | 7 | 1.145631 |
| Cnot4 | 0.000244236 | 0.027945931 | 0.325 | 0.366 | 1 | 7 | 0.887978 |
| Celf2 | 0.000246468 | 0.151418585 | 0.585 | 0.529 | 1 | 7 | 1.10586 |
| Ube2a | 0.000247897 | 0.075249828 | 0.299 | 0.299 | 1 | 7 | 1 |
| Ifngr1 | 0.000248484 | 0.185946039 | 0.526 | 0.453 | 1 | 7 | 1.161148 |
| Fam107b | 0.000248559 | 0.172472422 | 0.462 | 0.385 | 1 | 7 | 1.2 |
| Ahnak | 0.000249565 | 0.177661395 | 0.338 | 0.214 | 1 | 7 | 1.579439 |
| Hcls1 | 0.000252905 | 0.167496285 | 0.543 | 0.45 | 1 | 7 | 1.206667 |
| Sep-07 | 0.000257871 | 0.124603325 | 0.705 | 0.719 | 1 | 7 | 0.980529 |
| Dgkz | 0.000270109 | 0.144580986 | 0.286 | 0.225 | 1 | 7 | 1.271111 |
| Ly6a | 0.000280219 | 0.352464985 | 0.423 | 0.324 | 1 | 7 | 1.305556 |
| Eri1 | 0.000283269 | 0.153897924 | 0.325 | 0.26 | 1 | 7 | 1.25 |
| Laptm4a | 0.000283317 | 0.149648265 | 0.491 | 0.426 | 1 | 7 | 1.152582 |
| Chmp2a | 0.000297152 | 0.182179614 | 0.688 | 0.559 | 1 | 7 | 1.230769 |
| Stx6 | 0.000325853 | 0.15147294 | 0.265 | 0.199 | 1 | 7 | 1.331658 |
| Mrpl14 | 0.000338515 | 0.127092059 | 0.372 | 0.325 | 1 | 7 | 1.144615 |
| Adprh | 0.00034697 | 0.173827464 | 0.299 | 0.204 | 1 | 7 | 1.465686 |
| Itgb1 | 0.000357018 | 0.240170853 | 0.308 | 0.208 | 1 | 7 | 1.480769 |
| Tox | 0.000380573 | 0.187560655 | 0.312 | 0.209 | 1 | 7 | 1.492823 |
| Sep-09 | 0.000393006 | 0.18655394 | 0.509 | 0.419 | 1 | 7 | 1.214797 |
| Glud1 | 0.00039497 | 0.188009056 | 0.436 | 0.331 | 1 | 7 | 1.317221 |
| Man1a | 0.000431366 | 0.143670305 | 0.338 | 0.282 | 1 | 7 | 1.198582 |
| Fam53b | 0.000432072 | 0.127785736 | 0.436 | 0.396 | 1 | 7 | 1.10101 |
| Mphosph8 | 0.000451906 | 0.161691094 | 0.325 | 0.251 | 1 | 7 | 1.294821 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Arf5 | 0.000461502 | 0.145510648 | 0.868 | 0.836 | 1 | 7 | 1.038278 |
| Mier1 | 0.000472868 | 0.154501245 | 0.526 | 0.464 | 1 | 7 | 1.133621 |
| Tsg101 | 0.000479484 | 0.117278549 | 0.291 | 0.235 | 1 | 7 | 1.238298 |
| Faim | 0.000506467 | 0.160962732 | 0.363 | 0.29 | 1 | 7 | 1.251724 |
| Uqcrc2 | 0.000511379 | 0.171948203 | 0.543 | 0.455 | 1 | 7 | 1.193407 |
| Zfand6 | 0.000511935 | 0.142692675 | 0.534 | 0.485 | 1 | 7 | 1.101031 |
| Skil | 0.000520784 | 0.189922944 | 0.286 | 0.182 | 1 | 7 | 1.571429 |
| Nars | 0.000520805 | 0.192873441 | 0.462 | 0.355 | 1 | 7 | 1.301408 |
| Oser1 | 0.00053463 | 0.173494431 | 0.363 | 0.285 | 1 | 7 | 1.273684 |
| Ncf4 | 0.000537256 | 0.141707781 | 0.308 | 0.244 | 1 | 7 | 1.262295 |
| Ppp4r2 | 0.000552562 | 0.128987408 | 0.282 | 0.24 | 1 | 7 | 1.175 |
| Trem12 | 0.000562501 | 0.155724465 | 0.295 | 0.242 | 1 | 7 | 1.219008 |
| Park7 | 0.000570453 | 0.146815065 | 0.859 | 0.817 | 1 | 7 | 1.051408 |
| Ndufb9 | 0.000572147 | 0.149955542 | 0.658 | 0.602 | 1 | 7 | 1.093023 |
| Mob4 | 0.000574422 | 0.082000097 | 0.291 | 0.278 | 1 | 7 | 1.046763 |
| Lrrc8c | 0.000582798 | 0.172142291 | 0.286 | 0.204 | 1 | 7 | 1.401961 |
| Psmc6 | 0.0005884 | 0.092393327 | 0.363 | 0.342 | 1 | 7 | 1.061404 |
| BC005624 | 0.000596623 | 0.065903209 | 0.342 | 0.325 | 1 | 7 | 1.052308 |
| Glo1 | 0.000598515 | 0.14485258 | 0.402 | 0.33 | 1 | 7 | 1.218182 |
| Junb | 0.000623445 | 0.217947589 | 0.556 | 0.447 | 1 | 7 | 1.243848 |
| Fermt3 | 0.000686367 | 0.17730873 | 0.491 | 0.369 | 1 | 7 | 1.330623 |
| Txn14a | 0.000715348 | 0.107757169 | 0.325 | 0.305 | 1 | 7 | 1.065574 |
| Trappc6b | 0.000721716 | 0.142254254 | 0.423 | 0.347 | 1 | 7 | 1.21902 |
| Lgals1 | 0.000722188 | 0.110541261 | 0.568 | 0.458 | 1 | 7 | 1.240175 |
| Rabac1 | 0.000726194 | 0.159066047 | 0.821 | 0.786 | 1 | 7 | 1.044529 |
| Ptma | 0.000746023 | 0.131624365 | 0.996 | 0.994 | 1 | 7 | 1.002012 |
| Rps26 | 0.000786469 | 0.077569365 | 0.996 | 1 | 1 | 7 | 0.996 |
| Cndp2 | 0.000850261 | 0.159109165 | 0.252 | 0.169 | 1 | 7 | 1.491124 |
| Polr2i | 0.000879426 | 0.177009719 | 0.329 | 0.22 | 1 | 7 | 1.495455 |
| Efhd2 | 0.000914713 | 0.103770891 | 0.261 | 0.219 | 1 | 7 | 1.191781 |
| Anp32b | 0.00091826 | 0.160001857 | 0.782 | 0.733 | 1 | 7 | 1.066849 |
| Paip2 | 0.000948199 | 0.131648808 | 0.662 | 0.644 | 1 | 7 | 1.02795 |
| Snx20 | 0.00096 | 0.162628795 | 0.299 | 0.205 | 1 | 7 | 1.458537 |
| Sec13 | 0.000972376 | 0.049231837 | 0.252 | 0.257 | 1 | 7 | 0.980545 |
| Gabarap | 0.000974409 | 0.149406928 | 0.765 | 0.691 | 1 | 7 | 1.107091 |
| Zfp706 | 0.00098361 | 0.15291431 | 0.748 | 0.687 | 1 | 7 | 1.088792 |
| Cdk2ap2 | 0.001009943 | 0.134413069 | 0.872 | 0.87 | 1 | 7 | 1.002299 |
| Pgls | 0.001018908 | 0.104478223 | 0.491 | 0.483 | 1 | 7 | 1.016563 |
| Gimap9 | 0.001025051 | 0.171491846 | 0.641 | 0.555 | 1 | 7 | 1.154955 |
| Hif1a | 0.001030687 | 0.159379272 | 0.312 | 0.199 | 1 | 7 | 1.567839 |
| Ralgps2 | 0.001035445 | 0.114526548 | 0.291 | 0.251 | 1 | 7 | 1.159363 |
| Luc7l2 | 0.001068835 | 0.133910507 | 0.632 | 0.614 | 1 | 7 | 1.029316 |
| Rpl24 | 0.001089332 | 0.080977743 | 1 | 1 | 1 | 7 | 1 |
| Irf9 | 0.001091432 | 0.190563248 | 0.419 | 0.314 | 1 | 7 | 1.334395 |
| Pigx | 0.001113334 | 0.17692587 | 0.427 | 0.322 | 1 | 7 | 1.326087 |
| Mrpl52 | 0.00113082 | 0.166503814 | 0.752 | 0.67 | 1 | 7 | 1.122388 |
| Sf3b2 | 0.001168439 | 0.148325056 | 0.782 | 0.716 | 1 | 7 | 1.092179 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Pbxip1 | 0.001184519 | 0.105996102 | 0.316 | 0.291 | 1 | 7 | 1.085911 |
| Sumo1 | 0.001215524 | 0.115480827 | 0.701 | 0.683 | 1 | 7 | 1.026354 |
| Stag2 | 0.001282449 | 0.183646072 | 0.453 | 0.35 | 1 | 7 | 1.294286 |
| Igtp | 0.001306648 | 0.206071259 | 0.577 | 0.455 | 1 | 7 | 1.268132 |
| Chmp5 | 0.001350895 | 0.134680974 | 0.333 | 0.273 | 1 | 7 | 1.21978 |
| Psma4 | 0.001411619 | 0.109321838 | 0.62 | 0.603 | 1 | 7 | 1.028192 |
| 0610010K14Rik | 0.001414625 | 0.075820303 | 0.286 | 0.282 | 1 | 7 | 1.014184 |
| Plgrkt | 0.00143791 | 0.121707445 | 0.415 | 0.384 | 1 | 7 | 1.080729 |
| Rcsd1 | 0.001480583 | 0.170361658 | 0.581 | 0.464 | 1 | 7 | 1.252155 |
| Ndufb7 | 0.001528482 | 0.140825907 | 0.679 | 0.629 | 1 | 7 | 1.079491 |
| Bcap31 | 0.001558884 | 0.085083684 | 0.474 | 0.463 | 1 | 7 | 1.023758 |
| Zfp622 | 0.001568598 | 0.043930106 | 0.299 | 0.313 | 1 | 7 | 0.955272 |
| Spg21 | 0.001572975 | 0.145706613 | 0.376 | 0.282 | 1 | 7 | 1.333333 |
| Atp5d | 0.00166206 | 0.127990706 | 0.791 | 0.77 | 1 | 7 | 1.027273 |
| Aurkaip1 | 0.00169435 | 0.096876042 | 0.577 | 0.565 | 1 | 7 | 1.021239 |
| Psm8 | 0.001770526 | 0.162999886 | 0.581 | 0.472 | 1 | 7 | 1.230932 |
| Ppp1r12a | 0.001862936 | 0.163750685 | 0.457 | 0.377 | 1 | 7 | 1.212202 |
| Anp32e | 0.001904556 | 0.125771664 | 0.436 | 0.4 | 1 | 7 | 1.09 |
| Rhof | 0.002021322 | 0.173051589 | 0.402 | 0.292 | 1 | 7 | 1.376712 |
| Tap2 | 0.00207949 | 0.147957105 | 0.581 | 0.483 | 1 | 7 | 1.202899 |
| Gdi2 | 0.002085081 | 0.154833465 | 0.675 | 0.599 | 1 | 7 | 1.126878 |
| Eif5a | 0.002149591 | 0.119784614 | 0.91 | 0.92 | 1 | 7 | 0.98913 |
| Uqcrc1 | 0.002267653 | 0.086913067 | 0.5 | 0.494 | 1 | 7 | 1.012146 |
| Tceb1 | 0.002416995 | 0.024781455 | 0.453 | 0.495 | 1 | 7 | 0.915152 |
| Arhgap25 | 0.002443236 | 0.096878234 | 0.252 | 0.225 | 1 | 7 | 1.12 |
| Trim27 | 0.002479499 | 0.114886933 | 0.368 | 0.336 | 1 | 7 | 1.095238 |
| Hsbp1 | 0.002527287 | 0.158433698 | 0.551 | 0.459 | 1 | 7 | 1.200436 |
| Edf1 | 0.002600195 | 0.130617298 | 0.795 | 0.748 | 1 | 7 | 1.062834 |
| Hsp90b1 | 0.00263898 | 0.134357265 | 0.607 | 0.53 | 1 | 7 | 1.145283 |
| Btf3l4 | 0.002845494 | 0.12011294 | 0.316 | 0.261 | 1 | 7 | 1.210728 |
| H3f3a | 0.002888754 | 0.117928918 | 0.983 | 0.966 | 1 | 7 | 1.017598 |
| Bnip3l | 0.002892406 | 0.152513839 | 0.705 | 0.612 | 1 | 7 | 1.151961 |
| Rab5c | 0.002899946 | 0.108106935 | 0.427 | 0.398 | 1 | 7 | 1.072864 |
| Fam173a | 0.002986444 | 0.156341314 | 0.509 | 0.392 | 1 | 7 | 1.298469 |
| Prr13 | 0.00299489 | 0.180222173 | 0.44 | 0.359 | 1 | 7 | 1.225627 |
| Senp6 | 0.003103693 | 0.129850332 | 0.415 | 0.301 | 1 | 7 | 1.378738 |
| Lrmp | 0.003195291 | 0.126525137 | 0.295 | 0.25 | 1 | 7 | 1.18 |
| Aamp | 0.003285041 | 0.150251849 | 0.491 | 0.421 | 1 | 7 | 1.166271 |
| Clic1 | 0.003406278 | 0.128534123 | 0.893 | 0.859 | 1 | 7 | 1.039581 |
| Adss | 0.003413326 | 0.163451304 | 0.44 | 0.35 | 1 | 7 | 1.257143 |
| Fxr1 | 0.003444746 | 0.113089327 | 0.261 | 0.224 | 1 | 7 | 1.165179 |
| Guk1 | 0.003580386 | 0.112123341 | 0.393 | 0.343 | 1 | 7 | 1.145773 |
| Rab24 | 0.003695345 | 0.136960671 | 0.38 | 0.295 | 1 | 7 | 1.288136 |
| Oaz1 | 0.003732109 | 0.004806573 | 0.979 | 0.998 | 1 | 7 | 0.980962 |
| Uba2 | 0.003789307 | 0.042549354 | 0.286 | 0.306 | 1 | 7 | 0.934641 |
| Ccnd2 | 0.003846504 | 0.013536074 | 0.868 | 0.927 | 1 | 7 | 0.936354 |
| Phf11b | 0.003886276 | 0.132782203 | 0.282 | 0.244 | 1 | 7 | 1.155738 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Cirbp | 0.003947273 | 0.134175318 | 0.684 | 0.653 | 1 | 7 | 1.047473 |
| Thoc7 | 0.004038375 | 0.16524638 | 0.474 | 0.379 | 1 | 7 | 1.25066 |
| Ndufa6 | 0.004061643 | 0.137403456 | 0.872 | 0.809 | 1 | 7 | 1.077874 |
| Gm21092 | 0.004063916 | 0.143188529 | 0.491 | 0.429 | 1 | 7 | 1.144522 |
| Atp11b | 0.004156205 | 0.04465281 | 0.38 | 0.404 | 1 | 7 | 0.940594 |
| Setx | 0.004190321 | 0.06518971 | 0.376 | 0.38 | 1 | 7 | 0.989474 |
| Ptpn7 | 0.004218238 | 0.172837491 | 0.444 | 0.337 | 1 | 7 | 1.317507 |
| Coro1a | 0.004263749 | 0.107864526 | 1 | 0.998 | 1 | 7 | 1.002004 |
| 0610011F06Rik | 0.004268647 | 0.078357424 | 0.355 | 0.298 | 1 | 7 | 1.191275 |
| Pdcd4 | 0.004581837 | 0.126945984 | 0.872 | 0.786 | 1 | 7 | 1.109415 |
| Cd9 | 0.004624773 | 0.160899964 | 0.397 | 0.315 | 1 | 7 | 1.260317 |
| Akap8 | 0.004799501 | 0.102448259 | 0.299 | 0.266 | 1 | 7 | 1.12406 |
| Ndufb4 | 0.005023357 | 0.062602347 | 0.577 | 0.596 | 1 | 7 | 0.968121 |
| Ngfrap1 | 0.005135004 | 0.143974867 | 0.316 | 0.251 | 1 | 7 | 1.258964 |
| Eif4h | 0.005177631 | 0.095486099 | 0.393 | 0.364 | 1 | 7 | 1.07967 |
| Naca | 0.005213323 | 0.091310794 | 0.996 | 0.998 | 1 | 7 | 0.997996 |
| Lsm2 | 0.005227287 | 0.032415042 | 0.308 | 0.336 | 1 | 7 | 0.916667 |
| 1810037I17Rik | 0.005482048 | 0.132515821 | 0.65 | 0.579 | 1 | 7 | 1.122625 |
| Ube2r2 | 0.005558165 | 0.112046787 | 0.282 | 0.244 | 1 | 7 | 1.155738 |
| Vmp1 | 0.00568385 | 0.093804285 | 0.256 | 0.214 | 1 | 7 | 1.196262 |
| Sar1a | 0.00570594 | 0.091668782 | 0.342 | 0.309 | 1 | 7 | 1.106796 |
| H2afv | 0.005706172 | 0.117738957 | 0.598 | 0.525 | 1 | 7 | 1.139048 |
| Tmed2 | 0.005779322 | 0.0114308 | 0.684 | 0.728 | 1 | 7 | 0.93956 |
| Supt4a | 0.005861482 | 0.127778989 | 0.782 | 0.752 | 1 | 7 | 1.039894 |
| Cox5b | 0.005963561 | 0.075989503 | 0.774 | 0.788 | 1 | 7 | 0.982234 |
| Ndfip1 | 0.006217739 | 0.153337247 | 0.308 | 0.235 | 1 | 7 | 1.310638 |
| Necap2 | 0.006227965 | 0.149511445 | 0.308 | 0.218 | 1 | 7 | 1.412844 |
| Pkn1 | 0.006260616 | 0.070277249 | 0.278 | 0.265 | 1 | 7 | 1.049057 |
| Sra1 | 0.006263903 | 0.138316029 | 0.479 | 0.412 | 1 | 7 | 1.162621 |
| Pfdn5 | 0.006459279 | 0.09314858 | 0.966 | 0.977 | 1 | 7 | 0.988741 |
| Rnpepl1 | 0.00646382 | 0.152691105 | 0.312 | 0.223 | 1 | 7 | 1.399103 |
| G3bp1 | 0.006480128 | 0.12008172 | 0.761 | 0.663 | 1 | 7 | 1.147813 |
| Rock1 | 0.006494055 | 0.104309115 | 0.47 | 0.451 | 1 | 7 | 1.042129 |
| Prdx5 | 0.006546687 | 0.145357551 | 0.56 | 0.469 | 1 | 7 | 1.19403 |
| BC021614 | 0.00656476 | 0.137764492 | 0.41 | 0.366 | 1 | 7 | 1.120219 |
| Fkbp8 | 0.006571539 | 0.131298063 | 0.603 | 0.526 | 1 | 7 | 1.146388 |
| Cct4 | 0.006595722 | 0.14099693 | 0.761 | 0.671 | 1 | 7 | 1.134128 |
| Capza2 | 0.006682564 | 0.103225187 | 0.594 | 0.575 | 1 | 7 | 1.033043 |
| Ccdc107 | 0.006969233 | 0.092427076 | 0.303 | 0.261 | 1 | 7 | 1.16092 |
| Igfbp1 | 0.007279593 | 0.084609265 | 0.35 | 0.33 | 1 | 7 | 1.060606 |
| H2-Q4 | 0.007434377 | 0.124821424 | 0.833 | 0.826 | 1 | 7 | 1.008475 |
| Sp3 | 0.007557286 | 0.126687761 | 0.376 | 0.319 | 1 | 7 | 1.178683 |
| Camk4 | 0.007561491 | 0.151686628 | 0.316 | 0.245 | 1 | 7 | 1.289796 |
| Rassf5 | 0.007576825 | 0.148470111 | 0.585 | 0.483 | 1 | 7 | 1.21118 |
| Ergic2 | 0.007662323 | 0.132088403 | 0.295 | 0.2 | 1 | 7 | 1.475 |
| Borcs8 | 0.007674804 | 0.022509302 | 0.321 | 0.347 | 1 | 7 | 0.925072 |
| Prkar1a | 0.00777425 | 0.147226581 | 0.641 | 0.561 | 1 | 7 | 1.142602 |

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|---------|-------------|-------------|-------|-------|-----------|---|---|----------|
| Dock8 | 0.008032003 | 0.080859312 | 0.252 | 0.233 | | 1 | 7 | 1.081545 |
| Ech1 | 0.008094691 | 0.115828005 | 0.402 | 0.325 | | 1 | 7 | 1.236923 |
| Psm13 | 0.00824705 | 0.082272041 | 0.363 | 0.335 | | 1 | 7 | 1.083582 |
| Tex261 | 0.008635944 | 0.048006282 | 0.278 | 0.275 | | 1 | 7 | 1.010909 |
| Hmgn2 | 0.008717871 | 0.159097385 | 0.479 | 0.397 | | 1 | 7 | 1.206549 |
| Etfb | 0.008773877 | 0.115486954 | 0.355 | 0.297 | | 1 | 7 | 1.195286 |
| Lamtor2 | 0.008774821 | 0.132270111 | 0.705 | 0.637 | | 1 | 7 | 1.10675 |
| H3f3b | 0.008916745 | 0.102326721 | 0.991 | 0.994 | | 1 | 7 | 0.996982 |
| Gimap1 | 0.0090063 | 0.126228076 | 0.863 | 0.838 | | 1 | 7 | 1.029833 |
| Pfn1 | 0.009081639 | 0.081115125 | 1 | 1 | | 1 | 7 | 1 |
| Kmt2a | 0.009087933 | 0.119087069 | 0.415 | 0.325 | | 1 | 7 | 1.276923 |
| Tigd2 | 0.009158706 | 0.080548485 | 0.325 | 0.316 | | 1 | 7 | 1.028481 |
| Snx4 | 0.009168073 | 0.037448203 | 0.261 | 0.268 | | 1 | 7 | 0.973881 |
| Selk | 0.009309431 | 0.088161365 | 0.603 | 0.586 | | 1 | 7 | 1.02901 |
| Ube2h | 0.00932941 | 0.137827521 | 0.295 | 0.201 | | 1 | 7 | 1.467662 |
| Nisch | 0.0093595 | 0.143066986 | 0.513 | 0.445 | | 1 | 7 | 1.152809 |
| Arap2 | 0.009407132 | 0.150495347 | 0.261 | 0.19 | | 1 | 7 | 1.373684 |
| Llph | 0.009408831 | 0.118013618 | 0.611 | 0.574 | | 1 | 7 | 1.06446 |
| Idh3g | 0.009422421 | 0.141875597 | 0.427 | 0.337 | | 1 | 7 | 1.267062 |
| Aip | 0.009537601 | 0.140367152 | 0.449 | 0.355 | | 1 | 7 | 1.264789 |
| Prkcq | 0.0095421 | 0.131310566 | 0.581 | 0.531 | | 1 | 7 | 1.094162 |
| Tes | 0.009587309 | 0.088693246 | 0.329 | 0.312 | | 1 | 7 | 1.054487 |
| Dph3 | 0.009818649 | 0.012421945 | 0.235 | 0.267 | | 1 | 7 | 0.88015 |
| Sec61g | 0.009942712 | 0.108164005 | 0.889 | 0.874 | | 1 | 7 | 1.017162 |
| Cd74 | 5.77E-250 | 2.440956429 | 0.986 | 0.817 | 5.73E-246 | | 8 | 1.206854 |
| H2-Aa | 6.88E-171 | 1.816573511 | 0.871 | 0.57 | 6.84E-167 | | 8 | 1.52807 |
| H2-Eb1 | 2.56E-166 | 1.792603925 | 0.843 | 0.425 | 2.54E-162 | | 8 | 1.983529 |
| H2-Ab1 | 1.41E-165 | 1.731455412 | 0.929 | 0.563 | 1.40E-161 | | 8 | 1.650089 |
| Ebf1 | 2.15E-126 | 1.906704368 | 0.929 | 0.075 | 2.14E-122 | | 8 | 12.38667 |
| Cd79a | 6.59E-116 | 1.414309992 | 0.671 | 0.222 | 6.55E-112 | | 8 | 3.022523 |
| Ms4a1 | 8.05E-91 | 1.396029534 | 0.557 | 0.088 | 8.00E-87 | | 8 | 6.329545 |
| Mef2c | 1.22E-80 | 1.271884457 | 0.786 | 0.05 | 1.21E-76 | | 8 | 15.72 |
| Gm43603 | 1.49E-80 | 1.232055149 | 0.714 | 0.016 | 1.48E-76 | | 8 | 44.625 |
| Cd79b | 7.73E-72 | 1.165660472 | 0.729 | 0.29 | 7.68E-68 | | 8 | 2.513793 |
| H2-DMb2 | 5.39E-66 | 1.120161271 | 0.629 | 0.166 | 5.36E-62 | | 8 | 3.789157 |
| Bank1 | 1.30E-60 | 1.095709936 | 0.614 | 0.057 | 1.29E-56 | | 8 | 10.77193 |
| Fcer2a | 2.38E-47 | 0.913830899 | 0.443 | 0.048 | 2.37E-43 | | 8 | 9.229167 |
| mt-Co3 | 9.50E-47 | 0.545874188 | 1 | 1 | 9.44E-43 | | 8 | 1 |
| Siglecg | 9.00E-41 | 0.857364641 | 0.457 | 0.038 | 8.94E-37 | | 8 | 12.02632 |
| Fcmr | 1.67E-40 | 0.86244029 | 0.5 | 0.096 | 1.66E-36 | | 8 | 5.208333 |
| mt-Atp6 | 1.19E-39 | 0.478732617 | 1 | 1 | 1.18E-35 | | 8 | 1 |
| Gm43291 | 1.26E-33 | 0.662806446 | 0.343 | 0.01 | 1.25E-29 | | 8 | 34.3 |
| Napsa | 3.73E-33 | 0.771615126 | 0.471 | 0.045 | 3.71E-29 | | 8 | 10.46667 |
| mt-Nd1 | 2.07E-31 | 0.60432096 | 1 | 1 | 2.05E-27 | | 8 | 1 |
| Cd22 | 1.28E-30 | 0.760025863 | 0.486 | 0.052 | 1.27E-26 | | 8 | 9.346154 |
| mt-Co2 | 1.32E-29 | 0.540066513 | 1 | 1 | 1.31E-25 | | 8 | 1 |
| Ctsh | 3.34E-29 | 0.729967873 | 0.471 | 0.068 | 3.32E-25 | | 8 | 6.926471 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Tnfrsf13c | 4.48E-29 | 0.622660926 | 0.343 | 0.05 | 4.46E-25 | 8 | 6.86 |
| Cd72 | 7.37E-29 | 0.691285388 | 0.429 | 0.132 | 7.32E-25 | 8 | 3.25 |
| Unc93b1 | 6.71E-27 | 0.714191346 | 0.457 | 0.069 | 6.67E-23 | 8 | 6.623188 |
| Cybb | 1.56E-25 | 0.596128882 | 0.343 | 0.018 | 1.56E-21 | 8 | 19.05556 |
| mt-Cytb | 1.89E-24 | 0.519073247 | 1 | 1 | 1.88E-20 | 8 | 1 |
| mt-Co1 | 6.97E-24 | 0.458382933 | 1 | 1 | 6.93E-20 | 8 | 1 |
| Fcrla | 1.31E-22 | 0.584205316 | 0.3 | 0.042 | 1.30E-18 | 8 | 7.142857 |
| Bcl11a | 2.64E-21 | 0.577714258 | 0.343 | 0.021 | 2.62E-17 | 8 | 16.33333 |
| Cd180 | 5.32E-21 | 0.497369104 | 0.257 | 0.008 | 5.28E-17 | 8 | 32.125 |
| Swap70 | 1.22E-19 | 0.540081633 | 0.314 | 0.051 | 1.21E-15 | 8 | 6.156863 |
| Cr2 | 5.97E-19 | 0.484530967 | 0.286 | 0.026 | 5.94E-15 | 8 | 11 |
| Tcf4 | 5.20E-18 | 0.485229307 | 0.3 | 0.019 | 5.17E-14 | 8 | 15.78947 |
| Fchsd2 | 6.48E-17 | 0.553153228 | 0.443 | 0.168 | 6.45E-13 | 8 | 2.636905 |
| mt-Nd4 | 6.61E-17 | 0.525653465 | 0.986 | 0.989 | 6.57E-13 | 8 | 0.996967 |
| Ifi30 | 7.45E-17 | 0.635165329 | 0.414 | 0.109 | 7.40E-13 | 8 | 3.798165 |
| Irf8 | 1.59E-16 | 0.646859552 | 0.471 | 0.113 | 1.58E-12 | 8 | 4.168142 |
| Apoe | 8.52E-16 | 0.590047675 | 0.329 | 0.111 | 8.47E-12 | 8 | 2.963964 |
| Pax5 | 1.54E-15 | 0.361162292 | 0.271 | 0.02 | 1.53E-11 | 8 | 13.55 |
| Fcrl1 | 6.05E-15 | 0.418359178 | 0.314 | 0.029 | 6.01E-11 | 8 | 10.82759 |
| H2-DMA | 1.27E-14 | 0.493984679 | 0.457 | 0.221 | 1.27E-10 | 8 | 2.067873 |
| Ralgps2 | 2.28E-13 | 0.440941736 | 0.429 | 0.251 | 2.27E-09 | 8 | 1.709163 |
| mt-Nd2 | 1.13E-12 | 0.473122906 | 0.971 | 0.958 | 1.12E-08 | 8 | 1.01357 |
| Ctsz | 2.06E-12 | 0.49587407 | 0.514 | 0.202 | 2.05E-08 | 8 | 2.544554 |
| Ccr6 | 1.13E-11 | 0.398888589 | 0.257 | 0.028 | 1.13E-07 | 8 | 9.178571 |
| Cd38 | 1.14E-11 | 0.370970697 | 0.257 | 0.029 | 1.14E-07 | 8 | 8.862069 |
| Serp1b1a | 2.26E-11 | 0.505487301 | 0.3 | 0.069 | 2.24E-07 | 8 | 4.347826 |
| Malat1 | 3.27E-11 | 0.30238434 | 1 | 1 | 3.25E-07 | 8 | 1 |
| Zfp318 | 6.39E-11 | 0.490831103 | 0.371 | 0.101 | 6.35E-07 | 8 | 3.673267 |
| Filip1l | 4.81E-10 | 0.542467246 | 0.557 | 0.285 | 4.78E-06 | 8 | 1.954386 |
| D930015E06Rik | 7.63E-10 | 0.48370335 | 0.457 | 0.191 | 7.58E-06 | 8 | 2.39267 |
| Cd55 | 1.54E-09 | 0.440138756 | 0.5 | 0.174 | 1.53E-05 | 8 | 2.873563 |
| Serp1 | 2.25E-09 | 0.457556189 | 0.614 | 0.387 | 2.24E-05 | 8 | 1.586563 |
| Hvcn1 | 4.44E-09 | 0.4615538 | 0.6 | 0.31 | 4.41E-05 | 8 | 1.935484 |
| Man1a | 1.06E-08 | 0.380316636 | 0.5 | 0.282 | 0.000105216 | 8 | 1.77305 |
| Clk1 | 1.41E-08 | 0.281993622 | 0.614 | 0.465 | 0.000140596 | 8 | 1.32043 |
| Stap1 | 2.25E-08 | 0.407356185 | 0.4 | 0.178 | 0.000223441 | 8 | 2.247191 |
| Uvrag | 2.87E-08 | 0.370739944 | 0.4 | 0.178 | 0.00028538 | 8 | 2.247191 |
| Rhoh | 7.86E-08 | 0.417052397 | 0.914 | 0.766 | 0.000781575 | 8 | 1.193211 |
| Cd37 | 1.21E-07 | 0.41307632 | 0.771 | 0.624 | 0.00120438 | 8 | 1.235577 |
| mt-Nd3 | 1.42E-07 | 0.399351658 | 0.757 | 0.577 | 0.001414778 | 8 | 1.311958 |
| Sorl1 | 2.76E-07 | 0.402895842 | 0.357 | 0.164 | 0.002743775 | 8 | 2.176829 |
| Arhgap17 | 3.02E-07 | 0.377390946 | 0.329 | 0.086 | 0.003000078 | 8 | 3.825581 |
| H2-Oa | 3.10E-07 | 0.368053113 | 0.357 | 0.142 | 0.003083882 | 8 | 2.514085 |
| Ttc7 | 3.94E-07 | 0.334202325 | 0.314 | 0.163 | 0.003918685 | 8 | 1.92638 |
| St8sia4 | 4.48E-07 | 0.432876767 | 0.429 | 0.185 | 0.004457334 | 8 | 2.318919 |
| Cd81 | 7.94E-07 | 0.438742503 | 0.457 | 0.175 | 0.007895222 | 8 | 2.611429 |
| Etnk1 | 8.40E-07 | 0.371788588 | 0.614 | 0.338 | 0.008350764 | 8 | 1.816568 |

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|---------------|-------------|-------------|-------|-------|-------------|---|----------|
| Setd5 | 9.03E-07 | 0.300950219 | 0.471 | 0.263 | 0.008978604 | 8 | 1.790875 |
| Pou2f2 | 9.59E-07 | 0.465017758 | 0.457 | 0.186 | 0.009532069 | 8 | 2.456989 |
| Pag1 | 1.66E-06 | 0.198850183 | 0.257 | 0.147 | 0.016481482 | 8 | 1.748299 |
| Lmbrd1 | 2.14E-06 | 0.298364635 | 0.271 | 0.106 | 0.021241387 | 8 | 2.556604 |
| Sep-11 | 2.42E-06 | 0.333652762 | 0.271 | 0.087 | 0.024019331 | 8 | 3.114943 |
| Cst3 | 3.04E-06 | 0.144842432 | 0.5 | 0.473 | 0.030228354 | 8 | 1.057082 |
| Safb2 | 3.12E-06 | 0.315577709 | 0.471 | 0.291 | 0.031008805 | 8 | 1.618557 |
| Camk2d | 5.96E-06 | 0.363428157 | 0.5 | 0.256 | 0.059264315 | 8 | 1.953125 |
| Pxk | 1.01E-05 | 0.354814934 | 0.4 | 0.193 | 0.100029187 | 8 | 2.072539 |
| Sfswap | 1.01E-05 | 0.246833585 | 0.286 | 0.164 | 0.100694326 | 8 | 1.743902 |
| Setd2 | 1.11E-05 | 0.258531029 | 0.329 | 0.2 | 0.110794935 | 8 | 1.645 |
| Asxl2 | 1.15E-05 | 0.227172555 | 0.457 | 0.252 | 0.114141053 | 8 | 1.813492 |
| Dmxl1 | 1.52E-05 | 0.317647606 | 0.3 | 0.096 | 0.15093848 | 8 | 3.125 |
| Ctss | 1.79E-05 | 0.178227681 | 0.543 | 0.585 | 0.178011762 | 8 | 0.928205 |
| Zfand3 | 2.77E-05 | 0.118144299 | 0.257 | 0.116 | 0.275709764 | 8 | 2.215517 |
| Cep63 | 3.41E-05 | 0.25124971 | 0.286 | 0.094 | 0.338681602 | 8 | 3.042553 |
| A330017A19Rik | 3.74E-05 | 0.255806409 | 0.286 | 0.132 | 0.371360944 | 8 | 2.166667 |
| mt-Nd5 | 4.65E-05 | 0.319824402 | 0.729 | 0.608 | 0.462581749 | 8 | 1.199013 |
| Psap | 5.41E-05 | 0.27003795 | 0.6 | 0.534 | 0.537977111 | 8 | 1.123596 |
| Csnk1d | 6.24E-05 | 0.047265628 | 0.286 | 0.201 | 0.620546119 | 8 | 1.422886 |
| N4bp2l2 | 6.67E-05 | 0.178691244 | 0.5 | 0.462 | 0.663326906 | 8 | 1.082251 |
| Mtss1 | 7.53E-05 | 0.153187347 | 0.286 | 0.127 | 0.748841046 | 8 | 2.251969 |
| Dock10 | 7.56E-05 | 0.257868413 | 0.543 | 0.422 | 0.751867333 | 8 | 1.28673 |
| A630001G21Rik | 8.25E-05 | 0.280974331 | 0.257 | 0.088 | 0.820080462 | 8 | 2.920455 |
| Btbd9 | 8.72E-05 | 0.194357342 | 0.257 | 0.139 | 0.866773027 | 8 | 1.848921 |
| Prpf4b | 9.60E-05 | 0.33108902 | 0.671 | 0.478 | 0.954405238 | 8 | 1.403766 |
| 1110008P14Rik | 0.0001053 | 0.161937844 | 0.343 | 0.23 | 1 | 8 | 1.491304 |
| Naa15 | 0.000113695 | 0.226939286 | 0.414 | 0.267 | 1 | 8 | 1.550562 |
| Ndufs6 | 0.000117948 | 0.027553947 | 0.729 | 0.573 | 1 | 8 | 1.272251 |
| Fam98b | 0.000136954 | 0.191156772 | 0.286 | 0.11 | 1 | 8 | 2.6 |
| Cdk12 | 0.000138345 | 0.313157732 | 0.686 | 0.422 | 1 | 8 | 1.625592 |
| Ly6e | 0.000186018 | 0.3681035 | 0.557 | 0.363 | 1 | 8 | 1.534435 |
| 2810004N23Rik | 0.000191272 | 0.139767089 | 0.329 | 0.307 | 1 | 8 | 1.071661 |
| Rcc2 | 0.000227638 | 0.207357782 | 0.386 | 0.213 | 1 | 8 | 1.812207 |
| Nisch | 0.000232407 | 0.219509799 | 0.671 | 0.445 | 1 | 8 | 1.507865 |
| Plekha2 | 0.000251791 | 0.19637601 | 0.3 | 0.233 | 1 | 8 | 1.287554 |
| Amfr | 0.000289353 | 0.264147571 | 0.329 | 0.146 | 1 | 8 | 2.253425 |
| Mdm4 | 0.000295193 | 0.250308225 | 0.471 | 0.258 | 1 | 8 | 1.825581 |
| Arhgef2 | 0.000311559 | 0.262396566 | 0.343 | 0.184 | 1 | 8 | 1.86413 |
| Mbnl1 | 0.000314828 | 0.26044388 | 0.943 | 0.877 | 1 | 8 | 1.075257 |
| Gadd45gip1 | 0.000316379 | 0.018348187 | 0.286 | 0.284 | 1 | 8 | 1.007042 |
| Rel | 0.000322946 | 0.273276988 | 0.371 | 0.193 | 1 | 8 | 1.92228 |
| Nktr | 0.000335689 | 0.291101681 | 0.629 | 0.523 | 1 | 8 | 1.202677 |
| Slamf6 | 0.000361871 | 0.34850956 | 0.629 | 0.382 | 1 | 8 | 1.646597 |
| Samsn1 | 0.000391926 | 0.343499277 | 0.329 | 0.17 | 1 | 8 | 1.935294 |
| Aff4 | 0.000402722 | 0.214958653 | 0.3 | 0.171 | 1 | 8 | 1.754386 |
| Uba2 | 0.000404187 | 0.065863238 | 0.4 | 0.305 | 1 | 8 | 1.311475 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Ppp3ca | 0.000432275 | 0.260588579 | 0.443 | 0.233 | 1 | 8 | 1.901288 |
| Son | 0.000439279 | 0.2530682 | 0.971 | 0.883 | 1 | 8 | 1.09966 |
| Tbc1d1 | 0.000447239 | 0.315418533 | 0.557 | 0.337 | 1 | 8 | 1.652819 |
| Klf6 | 0.000463699 | 0.088967269 | 0.271 | 0.294 | 1 | 8 | 0.921769 |
| Tmem55b | 0.000483914 | 0.074162433 | 0.3 | 0.215 | 1 | 8 | 1.395349 |
| Ctso | 0.000494318 | 0.307277285 | 0.486 | 0.251 | 1 | 8 | 1.936255 |
| 2410004B18Rik | 0.00056479 | 0.223325779 | 0.271 | 0.146 | 1 | 8 | 1.856164 |
| Pde7a | 0.000576527 | 0.263542147 | 0.314 | 0.128 | 1 | 8 | 2.453125 |
| Glrx3 | 0.000633789 | 0.090469152 | 0.414 | 0.434 | 1 | 8 | 0.953917 |
| Zfp397 | 0.000660603 | 0.241786894 | 0.286 | 0.146 | 1 | 8 | 1.958904 |
| Emc6 | 0.000783923 | 0.194899844 | 0.557 | 0.451 | 1 | 8 | 1.235033 |
| Pstpip1 | 0.000816406 | 0.095613057 | 0.429 | 0.272 | 1 | 8 | 1.577206 |
| Git2 | 0.000846854 | 0.29814196 | 0.629 | 0.417 | 1 | 8 | 1.508393 |
| Rbm4b | 0.000892709 | 0.222902836 | 0.4 | 0.28 | 1 | 8 | 1.428571 |
| Dock2 | 0.000991986 | 0.298794195 | 0.729 | 0.517 | 1 | 8 | 1.410058 |
| Gtf2b | 0.001001351 | 0.132062993 | 0.329 | 0.239 | 1 | 8 | 1.376569 |
| 1500011B03Rik | 0.001051108 | 0.221514931 | 0.486 | 0.283 | 1 | 8 | 1.717314 |
| Fndc3a | 0.001059778 | 0.203106925 | 0.271 | 0.122 | 1 | 8 | 2.221311 |
| Inpp5d | 0.001095716 | 0.282141734 | 0.329 | 0.141 | 1 | 8 | 2.333333 |
| Dpm1 | 0.001149276 | 0.237542692 | 0.329 | 0.191 | 1 | 8 | 1.722513 |
| 0610030E20Rik | 0.001158032 | 0.288102944 | 0.471 | 0.264 | 1 | 8 | 1.784091 |
| Gm42418 | 0.001186499 | 0.258240688 | 0.943 | 0.907 | 1 | 8 | 1.039691 |
| Xiap | 0.001200669 | 0.234957958 | 0.343 | 0.176 | 1 | 8 | 1.948864 |
| Mif4gd | 0.001210491 | 0.202195101 | 0.357 | 0.21 | 1 | 8 | 1.7 |
| Kdm2a | 0.001305639 | 0.205179926 | 0.343 | 0.22 | 1 | 8 | 1.559091 |
| 1700020I14Rik | 0.001326955 | 0.019274794 | 0.257 | 0.241 | 1 | 8 | 1.06639 |
| Map4k2 | 0.001473746 | 0.159459753 | 0.271 | 0.184 | 1 | 8 | 1.472826 |
| Emc7 | 0.001535098 | 0.212726172 | 0.429 | 0.312 | 1 | 8 | 1.375 |
| Galnt1 | 0.001545218 | 0.218990858 | 0.343 | 0.159 | 1 | 8 | 2.157233 |
| Sp100 | 0.001559243 | 0.052367321 | 0.943 | 0.839 | 1 | 8 | 1.123957 |
| Nucks1 | 0.001569431 | 0.026714038 | 0.5 | 0.402 | 1 | 8 | 1.243781 |
| Macf1 | 0.001664749 | 0.248179754 | 0.743 | 0.516 | 1 | 8 | 1.439922 |
| Zmynd8 | 0.001715429 | 0.235720557 | 0.429 | 0.243 | 1 | 8 | 1.765432 |
| Rbm10 | 0.001736989 | 0.081734301 | 0.257 | 0.16 | 1 | 8 | 1.60625 |
| Sgms1 | 0.001808372 | 0.246199315 | 0.314 | 0.136 | 1 | 8 | 2.308824 |
| Ubl7 | 0.001828155 | 0.192303676 | 0.343 | 0.216 | 1 | 8 | 1.587963 |
| Btg1 | 0.001835844 | 0.191089709 | 0.986 | 0.983 | 1 | 8 | 1.003052 |
| Ppan | 0.001891677 | 0.221974292 | 0.357 | 0.237 | 1 | 8 | 1.506329 |
| Mysm1 | 0.001937345 | 0.225562255 | 0.471 | 0.298 | 1 | 8 | 1.580537 |
| Gpcpd1 | 0.001971689 | 0.250961968 | 0.429 | 0.248 | 1 | 8 | 1.729839 |
| Sp140 | 0.001979344 | 0.084622858 | 0.3 | 0.213 | 1 | 8 | 1.408451 |
| Srp54b | 0.002016733 | 0.132222248 | 0.357 | 0.293 | 1 | 8 | 1.21843 |
| Araf | 0.002097987 | 0.242995359 | 0.371 | 0.232 | 1 | 8 | 1.599138 |
| Ptprc | 0.002163253 | 0.186581165 | 1 | 0.969 | 1 | 8 | 1.031992 |
| Ubr5 | 0.00218249 | 0.196862484 | 0.3 | 0.152 | 1 | 8 | 1.973684 |
| H2afx | 0.002198395 | 0.077262337 | 0.314 | 0.202 | 1 | 8 | 1.554455 |
| Chd7 | 0.002258938 | 0.285111236 | 0.543 | 0.337 | 1 | 8 | 1.611276 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Elk4 | 0.002349778 | 0.154698386 | 0.371 | 0.268 | 1 | 8 | 1.384328 |
| Fam193a | 0.002420657 | 0.222146046 | 0.286 | 0.129 | 1 | 8 | 2.217054 |
| Ensa | 0.002457056 | 0.159724028 | 0.257 | 0.181 | 1 | 8 | 1.41989 |
| Ikzf3 | 0.002539699 | 0.242240201 | 0.286 | 0.138 | 1 | 8 | 2.072464 |
| Snx2 | 0.002551459 | 0.151102577 | 0.343 | 0.268 | 1 | 8 | 1.279851 |
| Eapp | 0.002813253 | 0.052044297 | 0.4 | 0.309 | 1 | 8 | 1.294498 |
| Slc44a2 | 0.002879934 | 0.178754996 | 0.343 | 0.258 | 1 | 8 | 1.329457 |
| Uggt1 | 0.002971542 | 0.174995969 | 0.3 | 0.148 | 1 | 8 | 2.027027 |
| Prr14 | 0.003166314 | 0.173062328 | 0.257 | 0.131 | 1 | 8 | 1.961832 |
| Crebbp | 0.003326058 | 0.196090328 | 0.386 | 0.266 | 1 | 8 | 1.451128 |
| Stag1 | 0.003412509 | 0.231531241 | 0.4 | 0.273 | 1 | 8 | 1.465201 |
| Pum1 | 0.003416166 | 0.121828463 | 0.314 | 0.234 | 1 | 8 | 1.34188 |
| Psmc4 | 0.003431509 | 0.144894047 | 0.514 | 0.414 | 1 | 8 | 1.241546 |
| Pin1 | 0.003502167 | 0.042187667 | 0.314 | 0.28 | 1 | 8 | 1.121429 |
| Phf3 | 0.003507817 | 0.086262389 | 0.429 | 0.4 | 1 | 8 | 1.0725 |
| Sft2d1 | 0.00360225 | 0.178941264 | 0.271 | 0.134 | 1 | 8 | 2.022388 |
| Dgkd | 0.003609469 | 0.232331786 | 0.371 | 0.198 | 1 | 8 | 1.873737 |
| Med4 | 0.003706213 | 0.104156963 | 0.314 | 0.185 | 1 | 8 | 1.697297 |
| Ptpn6 | 0.003798108 | 0.287283604 | 0.714 | 0.513 | 1 | 8 | 1.391813 |
| Mphosph8 | 0.003938434 | 0.216770846 | 0.357 | 0.253 | 1 | 8 | 1.411067 |
| Cspp1 | 0.004024724 | 0.150555431 | 0.286 | 0.193 | 1 | 8 | 1.481865 |
| Dnajc19 | 0.004133579 | 0.102012787 | 0.457 | 0.408 | 1 | 8 | 1.120098 |
| Lcp1 | 0.004170852 | 0.234848179 | 0.9 | 0.817 | 1 | 8 | 1.101591 |
| Zfp106 | 0.004262932 | 0.197735884 | 0.4 | 0.236 | 1 | 8 | 1.694915 |
| Ddit4 | 0.004704011 | 0.051644674 | 0.314 | 0.362 | 1 | 8 | 0.867403 |
| Trnau1ap | 0.004767121 | 0.21072712 | 0.357 | 0.226 | 1 | 8 | 1.579646 |
| Rpp14 | 0.004898315 | 0.174038664 | 0.271 | 0.155 | 1 | 8 | 1.748387 |
| Rcsd1 | 0.004955959 | 0.195754449 | 0.6 | 0.467 | 1 | 8 | 1.284797 |
| Atp6v0d1 | 0.005008432 | 0.147973582 | 0.257 | 0.169 | 1 | 8 | 1.52071 |
| Zfp36 | 0.005017045 | 0.055406831 | 0.3 | 0.199 | 1 | 8 | 1.507538 |
| Ankrd17 | 0.005036401 | 0.219428708 | 0.329 | 0.202 | 1 | 8 | 1.628713 |
| Tmf1 | 0.005139533 | 0.155887633 | 0.357 | 0.199 | 1 | 8 | 1.79397 |
| Dhx8 | 0.005198806 | 0.143203441 | 0.3 | 0.157 | 1 | 8 | 1.910828 |
| Rab24 | 0.005208698 | 0.19630821 | 0.486 | 0.297 | 1 | 8 | 1.636364 |
| Vps13a | 0.005255754 | 0.11069599 | 0.343 | 0.224 | 1 | 8 | 1.53125 |
| Ascc3 | 0.00525916 | 0.206241445 | 0.314 | 0.206 | 1 | 8 | 1.524272 |
| Ifngr2 | 0.005311595 | 0.181316033 | 0.257 | 0.132 | 1 | 8 | 1.94697 |
| Ddx17 | 0.005326467 | 0.104051253 | 0.357 | 0.232 | 1 | 8 | 1.538793 |
| Atp5sl | 0.005329465 | 0.185213558 | 0.286 | 0.168 | 1 | 8 | 1.702381 |
| Fli1 | 0.005565702 | 0.219112321 | 0.357 | 0.254 | 1 | 8 | 1.405512 |
| Rbm25 | 0.005931588 | 0.225464262 | 0.757 | 0.729 | 1 | 8 | 1.038409 |
| Pde4b | 0.005944899 | 0.182583761 | 0.357 | 0.2 | 1 | 8 | 1.785 |
| Phf20 | 0.006067353 | 0.042832644 | 0.286 | 0.231 | 1 | 8 | 1.238095 |
| Atf7ip | 0.006096363 | 0.26724321 | 0.586 | 0.403 | 1 | 8 | 1.454094 |
| Hsp90b1 | 0.006280501 | 0.254287616 | 0.657 | 0.531 | 1 | 8 | 1.237288 |
| Crtc3 | 0.00636895 | 0.103145337 | 0.271 | 0.206 | 1 | 8 | 1.315534 |
| Ppp4r2 | 0.006390333 | 0.1026409 | 0.371 | 0.24 | 1 | 8 | 1.545833 |

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|----------|-------------|-------------|-------|-------|-----------|---|----------|
| Kmt2e | 0.006419125 | 0.239721584 | 0.614 | 0.527 | 1 | 8 | 1.165085 |
| Parp1 | 0.006541328 | 0.248946107 | 0.386 | 0.202 | 1 | 8 | 1.910891 |
| Grap | 0.006542357 | 0.110858553 | 0.429 | 0.469 | 1 | 8 | 0.914712 |
| Vezf1 | 0.006551401 | 0.085902177 | 0.314 | 0.195 | 1 | 8 | 1.610256 |
| Phip | 0.006647001 | 0.187259168 | 0.5 | 0.32 | 1 | 8 | 1.5625 |
| Fam63b | 0.006654464 | 0.143002277 | 0.257 | 0.175 | 1 | 8 | 1.468571 |
| Erdr1 | 0.006813055 | 0.235302763 | 0.529 | 0.331 | 1 | 8 | 1.598187 |
| Ash1l | 0.006875093 | 0.238342526 | 0.543 | 0.402 | 1 | 8 | 1.350746 |
| mt-Nd4l | 0.006922559 | 0.139694095 | 0.343 | 0.261 | 1 | 8 | 1.314176 |
| Kat6a | 0.006924497 | 0.125488506 | 0.3 | 0.228 | 1 | 8 | 1.315789 |
| Dr1 | 0.007084794 | 0.18037675 | 0.257 | 0.127 | 1 | 8 | 2.023622 |
| Spcs3 | 0.007146897 | 0.098626635 | 0.271 | 0.181 | 1 | 8 | 1.497238 |
| Arhgef3 | 0.007208416 | 0.123901674 | 0.314 | 0.179 | 1 | 8 | 1.75419 |
| Hspa5 | 0.007254775 | 0.255980592 | 0.771 | 0.67 | 1 | 8 | 1.150746 |
| Pdia6 | 0.007666418 | 0.124409423 | 0.514 | 0.377 | 1 | 8 | 1.363395 |
| Gripap1 | 0.007777256 | 0.239027408 | 0.329 | 0.169 | 1 | 8 | 1.946746 |
| Itsn2 | 0.007817822 | 0.242269144 | 0.5 | 0.327 | 1 | 8 | 1.529052 |
| Polr2f | 0.007975955 | 0.165014699 | 0.629 | 0.437 | 1 | 8 | 1.439359 |
| Aqr | 0.008273429 | 0.185782812 | 0.414 | 0.331 | 1 | 8 | 1.250755 |
| Wdr1 | 0.008373379 | 0.083998466 | 0.643 | 0.488 | 1 | 8 | 1.317623 |
| Mknk2 | 0.008860311 | 0.050888132 | 0.286 | 0.227 | 1 | 8 | 1.259912 |
| Pkn2 | 0.008928648 | 0.210817651 | 0.529 | 0.38 | 1 | 8 | 1.392105 |
| Stag2 | 0.008945398 | 0.148556933 | 0.529 | 0.352 | 1 | 8 | 1.502841 |
| Ube2k | 0.009018876 | 0.088320418 | 0.443 | 0.381 | 1 | 8 | 1.16273 |
| Eefsec | 0.009156064 | 0.144438742 | 0.3 | 0.177 | 1 | 8 | 1.694915 |
| Rassf2 | 0.009186762 | 0.15128654 | 0.429 | 0.265 | 1 | 8 | 1.618868 |
| Vbp1 | 0.00921468 | 0.183044056 | 0.4 | 0.267 | 1 | 8 | 1.498127 |
| Wsb1 | 0.009419199 | 0.164127011 | 0.257 | 0.136 | 1 | 8 | 1.889706 |
| Gppp111 | 0.009466615 | 0.017391645 | 0.257 | 0.253 | 1 | 8 | 1.01581 |
| Smad4 | 0.009524695 | 0.136439526 | 0.271 | 0.163 | 1 | 8 | 1.662577 |
| Arhgef18 | 0.009826154 | 0.180627166 | 0.286 | 0.17 | 1 | 8 | 1.682353 |
| Zfp36l1 | 0.009960659 | 0.115548301 | 0.457 | 0.336 | 1 | 8 | 1.360119 |
| Lgals1 | 9.46E-188 | 2.500073954 | 0.984 | 0.457 | 9.41E-184 | 9 | 2.153173 |
| S100a10 | 1.86E-180 | 1.998466449 | 1 | 0.814 | 1.85E-176 | 9 | 1.228501 |
| S100a6 | 4.37E-156 | 3.145635789 | 0.938 | 0.083 | 4.34E-152 | 9 | 11.3012 |
| Capg | 3.41E-115 | 1.899121105 | 0.938 | 0.281 | 3.39E-111 | 9 | 3.338078 |
| S100a4 | 7.97E-115 | 2.629904454 | 0.938 | 0.053 | 7.92E-111 | 9 | 17.69811 |
| S100a11 | 6.98E-109 | 1.580870549 | 0.984 | 0.495 | 6.94E-105 | 9 | 1.987879 |
| Cmtm7 | 2.63E-97 | 1.431965916 | 0.703 | 0.143 | 2.61E-93 | 9 | 4.916084 |
| Icos | 2.74E-95 | 1.851010167 | 0.875 | 0.07 | 2.72E-91 | 9 | 12.5 |
| Crip1 | 9.52E-93 | 1.958244577 | 0.938 | 0.558 | 9.46E-89 | 9 | 1.681004 |
| Tnfrsf18 | 3.24E-88 | 1.576116981 | 0.922 | 0.382 | 3.22E-84 | 9 | 2.413613 |
| Vim | 2.08E-85 | 1.558725849 | 0.938 | 0.635 | 2.07E-81 | 9 | 1.477165 |
| Maf | 2.45E-77 | 1.590064291 | 0.859 | 0.032 | 2.44E-73 | 9 | 26.84375 |
| Itgae | 1.75E-70 | 1.467964627 | 0.781 | 0.043 | 1.74E-66 | 9 | 18.16279 |
| Ccr2 | 1.96E-68 | 1.445671353 | 0.625 | 0.018 | 1.94E-64 | 9 | 34.72222 |
| Ikzf2 | 2.11E-67 | 2.120533147 | 0.906 | 0.088 | 2.10E-63 | 9 | 10.29545 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Srgn | 3.92E-63 | 1.325984417 | 0.984 | 0.686 | 3.89E-59 | 9 | 1.434402 |
| Ctla4 | 1.55E-60 | 1.334746833 | 0.688 | 0.027 | 1.54E-56 | 9 | 25.48148 |
| Reep5 | 1.58E-56 | 1.106328214 | 0.906 | 0.413 | 1.57E-52 | 9 | 2.193705 |
| Gm2a | 3.59E-56 | 1.051913433 | 0.781 | 0.286 | 3.57E-52 | 9 | 2.730769 |
| Hmgb2 | 5.96E-56 | 1.268572828 | 0.891 | 0.535 | 5.93E-52 | 9 | 1.665421 |
| Lgmn | 1.07E-54 | 1.028328538 | 0.609 | 0.022 | 1.07E-50 | 9 | 27.68182 |
| Tnfrsf4 | 1.57E-52 | 1.868507369 | 0.859 | 0.111 | 1.56E-48 | 9 | 7.738739 |
| Gzmb | 6.07E-49 | 1.64966206 | 0.391 | 0.003 | 6.03E-45 | 9 | 130.3333 |
| Tmsb4x | 3.24E-47 | 0.386098687 | 1 | 1 | 3.22E-43 | 9 | 1 |
| Fabp5 | 5.85E-46 | 1.334335531 | 0.516 | 0.127 | 5.82E-42 | 9 | 4.062992 |
| Rora | 3.71E-45 | 1.031805035 | 0.641 | 0.049 | 3.68E-41 | 9 | 13.08163 |
| Foxp3 | 1.18E-44 | 1.172147577 | 0.641 | 0.036 | 1.17E-40 | 9 | 17.80556 |
| Vmp1 | 4.47E-44 | 0.903440524 | 0.703 | 0.211 | 4.44E-40 | 9 | 3.331754 |
| Pim1 | 9.23E-43 | 1.263046285 | 0.875 | 0.257 | 9.17E-39 | 9 | 3.404669 |
| Arl5a | 1.90E-42 | 0.897467845 | 0.562 | 0.06 | 1.89E-38 | 9 | 9.366667 |
| Pglyrp1 | 2.17E-42 | 1.019645439 | 0.641 | 0.152 | 2.15E-38 | 9 | 4.217105 |
| Glrx | 3.54E-42 | 0.922886979 | 0.641 | 0.179 | 3.52E-38 | 9 | 3.581006 |
| Ccr6 | 2.46E-41 | 1.151606047 | 0.578 | 0.025 | 2.44E-37 | 9 | 23.12 |
| Ass1 | 9.04E-41 | 1.127949511 | 0.828 | 0.385 | 8.98E-37 | 9 | 2.150649 |
| Actg1 | 9.63E-40 | 0.903863102 | 1 | 0.995 | 9.58E-36 | 9 | 1.005025 |
| Pkp3 | 1.50E-39 | 0.98985745 | 0.766 | 0.284 | 1.50E-35 | 9 | 2.697183 |
| Ifi27l2a | 4.15E-37 | 1.18971356 | 1 | 0.881 | 4.12E-33 | 9 | 1.135074 |
| Itm2b | 4.74E-36 | 0.878565999 | 1 | 0.97 | 4.71E-32 | 9 | 1.030928 |
| Atp2b1 | 9.62E-35 | 0.931735272 | 0.75 | 0.283 | 9.56E-31 | 9 | 2.650177 |
| Ahnak | 1.82E-33 | 1.032112743 | 0.766 | 0.213 | 1.81E-29 | 9 | 3.596244 |
| Prr13 | 3.08E-33 | 0.972987541 | 0.891 | 0.356 | 3.06E-29 | 9 | 2.502809 |
| Serinc3 | 1.15E-32 | 0.844033995 | 0.641 | 0.146 | 1.14E-28 | 9 | 4.390411 |
| Fam129a | 1.33E-32 | 0.870666679 | 0.438 | 0.021 | 1.32E-28 | 9 | 20.85714 |
| Cst3 | 4.08E-32 | 0.823471649 | 0.875 | 0.469 | 4.05E-28 | 9 | 1.865672 |
| Lmna | 6.38E-32 | 0.739988962 | 0.375 | 0.013 | 6.35E-28 | 9 | 28.84615 |
| Smco4 | 1.26E-30 | 0.892657392 | 0.75 | 0.17 | 1.25E-26 | 9 | 4.411765 |
| Anxa2 | 5.94E-30 | 1.050535283 | 0.453 | 0.05 | 5.91E-26 | 9 | 9.06 |
| Tnfrsf1b | 6.30E-30 | 0.766354235 | 0.5 | 0.052 | 6.26E-26 | 9 | 9.615385 |
| Samsn1 | 8.22E-30 | 0.882075167 | 0.578 | 0.167 | 8.17E-26 | 9 | 3.461078 |
| Socs2 | 3.39E-29 | 0.812044885 | 0.469 | 0.023 | 3.36E-25 | 9 | 20.3913 |
| Ccr10 | 4.68E-29 | 0.737599493 | 0.359 | 0.007 | 4.65E-25 | 9 | 51.28571 |
| Cd48 | 7.05E-29 | 0.776508999 | 0.828 | 0.54 | 7.01E-25 | 9 | 1.533333 |
| Neb | 9.40E-29 | 0.597172212 | 0.375 | 0.01 | 9.35E-25 | 9 | 37.5 |
| Il2ra | 2.27E-28 | 0.889211197 | 0.516 | 0.035 | 2.25E-24 | 9 | 14.74286 |
| Lgals3 | 3.31E-28 | 1.049572719 | 0.391 | 0.044 | 3.29E-24 | 9 | 8.886364 |
| Hopx | 3.39E-28 | 0.869906361 | 0.359 | 0.015 | 3.37E-24 | 9 | 23.93333 |
| Gapdh | 9.62E-28 | 0.775628457 | 0.953 | 0.806 | 9.57E-24 | 9 | 1.182382 |
| Lbh | 1.39E-27 | 0.790750146 | 0.875 | 0.498 | 1.38E-23 | 9 | 1.757028 |
| Cdk6 | 1.41E-26 | 0.736534701 | 0.359 | 0.067 | 1.40E-22 | 9 | 5.358209 |
| Arpc2 | 1.85E-26 | 0.610644433 | 1 | 0.974 | 1.84E-22 | 9 | 1.026694 |
| Ccr4 | 2.26E-26 | 0.536589494 | 0.344 | 0.009 | 2.24E-22 | 9 | 38.22222 |
| Sdcbp2 | 4.93E-26 | 0.56771468 | 0.406 | 0.027 | 4.90E-22 | 9 | 15.03704 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Ncmap | 1.23E-25 | 0.611718104 | 0.344 | 0.013 | 1.22E-21 | 9 | 26.46154 |
| Tnfrsf9 | 1.31E-25 | 1.272795199 | 0.453 | 0.042 | 1.30E-21 | 9 | 10.78571 |
| Lmnb1 | 1.74E-25 | 0.682729761 | 0.422 | 0.116 | 1.73E-21 | 9 | 3.637931 |
| Cyb5a | 3.78E-25 | 0.739950135 | 0.922 | 0.636 | 3.76E-21 | 9 | 1.449686 |
| Ccng1 | 3.79E-25 | 0.745314791 | 0.656 | 0.283 | 3.77E-21 | 9 | 2.318021 |
| Snx2 | 4.11E-25 | 0.773950208 | 0.75 | 0.264 | 4.09E-21 | 9 | 2.840909 |
| S100a13 | 4.90E-25 | 0.738127978 | 0.922 | 0.492 | 4.87E-21 | 9 | 1.873984 |
| Myo1f | 6.07E-25 | 0.730511173 | 0.5 | 0.072 | 6.04E-21 | 9 | 6.944444 |
| Mif4gd | 6.42E-25 | 0.790020602 | 0.672 | 0.207 | 6.39E-21 | 9 | 3.246377 |
| Rps27l | 9.90E-25 | 0.690121232 | 0.922 | 0.673 | 9.84E-21 | 9 | 1.369985 |
| Clic1 | 1.53E-24 | 0.688389986 | 0.984 | 0.859 | 1.52E-20 | 9 | 1.145518 |
| Sec11c | 2.00E-24 | 0.739660953 | 0.844 | 0.493 | 1.99E-20 | 9 | 1.711968 |
| Osbp13 | 2.30E-24 | 0.536864298 | 0.297 | 0.006 | 2.28E-20 | 9 | 49.5 |
| Zbtb32 | 2.99E-24 | 0.555382481 | 0.312 | 0.007 | 2.97E-20 | 9 | 44.57143 |
| Ptpcap | 5.39E-24 | 0.665202167 | 1 | 0.966 | 5.36E-20 | 9 | 1.035197 |
| Glpr1 | 7.83E-24 | 0.746776956 | 0.703 | 0.236 | 7.79E-20 | 9 | 2.978814 |
| Pfn1 | 8.93E-24 | 0.46809026 | 1 | 1 | 8.88E-20 | 9 | 1 |
| H2-D1 | 1.40E-23 | 0.381890191 | 1 | 1 | 1.39E-19 | 9 | 1 |
| Cd44 | 1.99E-23 | 0.733115021 | 0.453 | 0.091 | 1.98E-19 | 9 | 4.978022 |
| Lcp1 | 1.20E-22 | 0.645237302 | 0.984 | 0.816 | 1.19E-18 | 9 | 1.205882 |
| Samhd1 | 1.59E-22 | 0.856788484 | 0.859 | 0.56 | 1.58E-18 | 9 | 1.533929 |
| Ndfip1 | 1.33E-21 | 0.742958169 | 0.703 | 0.233 | 1.33E-17 | 9 | 3.017167 |
| Psen2 | 1.42E-21 | 0.683847483 | 0.594 | 0.142 | 1.41E-17 | 9 | 4.183099 |
| AW112010 | 1.53E-21 | 0.841424971 | 0.984 | 0.831 | 1.52E-17 | 9 | 1.184116 |
| Gbp3 | 2.10E-21 | 0.756526579 | 0.5 | 0.083 | 2.08E-17 | 9 | 6.024096 |
| Prdm1 | 2.23E-21 | 0.454527304 | 0.281 | 0.007 | 2.22E-17 | 9 | 40.14286 |
| Mki67 | 5.91E-21 | 0.665822134 | 0.281 | 0.021 | 5.87E-17 | 9 | 13.38095 |
| Rab11a | 9.59E-21 | 0.594680168 | 0.594 | 0.264 | 9.53E-17 | 9 | 2.25 |
| Hcls1 | 1.18E-20 | 0.675909773 | 0.828 | 0.45 | 1.17E-16 | 9 | 1.84 |
| Cyba | 1.55E-20 | 0.677361199 | 1 | 0.862 | 1.54E-16 | 9 | 1.160093 |
| B2m | 3.24E-20 | 0.35400361 | 1 | 1 | 3.22E-16 | 9 | 1 |
| Cdc42 | 4.26E-20 | 0.578974828 | 0.984 | 0.883 | 4.24E-16 | 9 | 1.114383 |
| Pla2g16 | 6.67E-20 | 0.655815159 | 0.781 | 0.44 | 6.63E-16 | 9 | 1.775 |
| Ncf4 | 8.11E-20 | 0.682273585 | 0.625 | 0.243 | 8.06E-16 | 9 | 2.572016 |
| Itm2c | 2.38E-19 | 0.664277825 | 0.734 | 0.346 | 2.36E-15 | 9 | 2.121387 |
| Arl6ip1 | 2.43E-19 | 0.641344935 | 0.969 | 0.722 | 2.41E-15 | 9 | 1.342105 |
| Slamf1 | 2.58E-19 | 0.663252069 | 0.484 | 0.085 | 2.56E-15 | 9 | 5.694118 |
| Slc22a15 | 3.09E-19 | 0.466235012 | 0.312 | 0.014 | 3.07E-15 | 9 | 22.28571 |
| Eif4e3 | 3.79E-19 | 0.558204375 | 0.406 | 0.078 | 3.77E-15 | 9 | 5.205128 |
| Prdx1 | 6.22E-19 | 0.604403228 | 0.969 | 0.838 | 6.19E-15 | 9 | 1.156325 |
| Abrac1 | 7.16E-19 | 0.609557813 | 0.953 | 0.79 | 7.12E-15 | 9 | 1.206329 |
| Il2rb | 8.88E-19 | 0.674965161 | 0.594 | 0.147 | 8.83E-15 | 9 | 4.040816 |
| Tnfaip8 | 1.30E-18 | 0.687728572 | 0.609 | 0.292 | 1.29E-14 | 9 | 2.085616 |
| Vamp5 | 1.82E-18 | 0.553790418 | 0.531 | 0.112 | 1.81E-14 | 9 | 4.741071 |
| Dok2 | 2.78E-18 | 0.664216153 | 0.844 | 0.533 | 2.76E-14 | 9 | 1.58349 |
| Cd5 | 5.07E-18 | 0.75817099 | 0.75 | 0.401 | 5.04E-14 | 9 | 1.870324 |
| Itgb7 | 6.67E-18 | 0.667781228 | 0.875 | 0.687 | 6.63E-14 | 9 | 1.273654 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Vamp8 | 1.20E-17 | 0.596287044 | 0.797 | 0.486 | 1.20E-13 | 9 | 1.639918 |
| Tpm4 | 2.21E-17 | 0.681376214 | 0.688 | 0.309 | 2.20E-13 | 9 | 2.226537 |
| Tceb3 | 2.38E-17 | 0.624164171 | 0.578 | 0.155 | 2.37E-13 | 9 | 3.729032 |
| Ptpn7 | 2.81E-17 | 0.696284736 | 0.734 | 0.337 | 2.80E-13 | 9 | 2.178042 |
| Ctsb | 3.67E-17 | 0.664866646 | 0.75 | 0.308 | 3.65E-13 | 9 | 2.435065 |
| Atp2b4 | 5.70E-17 | 0.400909305 | 0.281 | 0.013 | 5.66E-13 | 9 | 21.61538 |
| Pycard | 6.26E-17 | 0.64969606 | 0.859 | 0.639 | 6.22E-13 | 9 | 1.344288 |
| Sytl2 | 7.37E-17 | 0.498332952 | 0.328 | 0.023 | 7.33E-13 | 9 | 14.26087 |
| Tmem154 | 9.47E-17 | 0.520258456 | 0.344 | 0.048 | 9.41E-13 | 9 | 7.166667 |
| Sdf4 | 1.30E-16 | 0.600683322 | 0.922 | 0.597 | 1.29E-12 | 9 | 1.544389 |
| Gna15 | 1.66E-16 | 0.492803128 | 0.328 | 0.036 | 1.65E-12 | 9 | 9.111111 |
| Lrp10 | 1.68E-16 | 0.565810202 | 0.719 | 0.264 | 1.67E-12 | 9 | 2.723485 |
| Ywhah | 2.08E-16 | 0.594938572 | 0.75 | 0.479 | 2.07E-12 | 9 | 1.565762 |
| Rgs1 | 2.11E-16 | 1.00766135 | 0.453 | 0.066 | 2.10E-12 | 9 | 6.863636 |
| Lsp1 | 3.26E-16 | 0.572427061 | 0.953 | 0.853 | 3.24E-12 | 9 | 1.117233 |
| Carhsp1 | 3.42E-16 | 0.444045499 | 0.281 | 0.031 | 3.40E-12 | 9 | 9.064516 |
| Fkbp1a | 3.43E-16 | 0.604363516 | 0.906 | 0.614 | 3.41E-12 | 9 | 1.47557 |
| Cap1 | 3.53E-16 | 0.577132483 | 0.984 | 0.779 | 3.51E-12 | 9 | 1.263158 |
| Smpdl3a | 3.92E-16 | 0.624337782 | 0.703 | 0.343 | 3.89E-12 | 9 | 2.049563 |
| Stx11 | 4.27E-16 | 0.537249998 | 0.266 | 0.017 | 4.24E-12 | 9 | 15.64706 |
| Capn2 | 4.83E-16 | 0.591061151 | 0.516 | 0.115 | 4.81E-12 | 9 | 4.486957 |
| Myl6 | 5.27E-16 | 0.487005913 | 1 | 0.991 | 5.24E-12 | 9 | 1.009082 |
| Rilpl2 | 5.58E-16 | 0.666995116 | 0.422 | 0.122 | 5.55E-12 | 9 | 3.459016 |
| Stmn1 | 6.23E-16 | 0.699083926 | 0.266 | 0.113 | 6.19E-12 | 9 | 2.353982 |
| Capzb | 6.97E-16 | 0.562496477 | 0.922 | 0.728 | 6.92E-12 | 9 | 1.266484 |
| Gata3 | 7.90E-16 | 0.548789272 | 0.484 | 0.169 | 7.85E-12 | 9 | 2.863905 |
| Hsp90b1 | 8.50E-16 | 0.575116206 | 0.672 | 0.531 | 8.45E-12 | 9 | 1.265537 |
| Acot9 | 1.17E-15 | 0.526415737 | 0.484 | 0.157 | 1.16E-11 | 9 | 3.082803 |
| Cldnd1 | 1.27E-15 | 0.61723294 | 0.516 | 0.149 | 1.26E-11 | 9 | 3.463087 |
| Mdfic | 1.36E-15 | 0.501258242 | 0.312 | 0.025 | 1.35E-11 | 9 | 12.48 |
| Ndufb7 | 2.62E-15 | 0.555466573 | 0.891 | 0.628 | 2.60E-11 | 9 | 1.41879 |
| Ube2n | 2.91E-15 | 0.589093798 | 0.828 | 0.468 | 2.89E-11 | 9 | 1.769231 |
| Atpif1 | 3.50E-15 | 0.645748311 | 0.672 | 0.32 | 3.48E-11 | 9 | 2.1 |
| H2afz | 4.72E-15 | 0.618085566 | 0.969 | 0.865 | 4.70E-11 | 9 | 1.120231 |
| Vrk1 | 5.50E-15 | 0.597913746 | 0.656 | 0.296 | 5.47E-11 | 9 | 2.216216 |
| Hmgn2 | 7.95E-15 | 0.50201905 | 0.469 | 0.399 | 7.90E-11 | 9 | 1.175439 |
| Matk | 1.41E-14 | 0.519148015 | 0.438 | 0.127 | 1.40E-10 | 9 | 3.448819 |
| Map1lc3b | 1.89E-14 | 0.563500142 | 0.891 | 0.635 | 1.88E-10 | 9 | 1.40315 |
| Spcs2 | 2.34E-14 | 0.524135771 | 0.984 | 0.756 | 2.33E-10 | 9 | 1.301587 |
| Cmpk1 | 3.72E-14 | 0.551241941 | 0.656 | 0.332 | 3.70E-10 | 9 | 1.975904 |
| Lamtor4 | 4.04E-14 | 0.588886027 | 0.688 | 0.332 | 4.02E-10 | 9 | 2.072289 |
| Slc9a3r1 | 4.65E-14 | 0.56306112 | 0.875 | 0.584 | 4.62E-10 | 9 | 1.498288 |
| Pkm | 4.72E-14 | 0.552773005 | 0.922 | 0.795 | 4.69E-10 | 9 | 1.159748 |
| Arpc4 | 5.06E-14 | 0.550638005 | 0.859 | 0.652 | 5.03E-10 | 9 | 1.317485 |
| Tgfb1 | 5.85E-14 | 0.63110799 | 0.75 | 0.401 | 5.81E-10 | 9 | 1.870324 |
| Actb | 1.34E-13 | 0.580388572 | 1 | 1 | 1.33E-09 | 9 | 1 |
| Pttg1 | 1.83E-13 | 0.462704306 | 0.281 | 0.05 | 1.82E-09 | 9 | 5.62 |

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|---------|----------|-------------|-------|-------|----------|---|----------|
| Acot7 | 2.28E-13 | 0.462600413 | 0.312 | 0.051 | 2.26E-09 | 9 | 6.117647 |
| Glud1 | 2.36E-13 | 0.509659479 | 0.625 | 0.332 | 2.35E-09 | 9 | 1.88253 |
| Calm1 | 2.41E-13 | 0.479551668 | 1 | 0.986 | 2.39E-09 | 9 | 1.014199 |
| Gm15987 | 2.69E-13 | 0.354730895 | 0.266 | 0.02 | 2.67E-09 | 9 | 13.3 |
| Ppp1ca | 2.73E-13 | 0.483439129 | 0.969 | 0.897 | 2.72E-09 | 9 | 1.080268 |
| Hmgb1 | 2.90E-13 | 0.523675557 | 0.984 | 0.908 | 2.89E-09 | 9 | 1.0837 |
| H1f0 | 3.16E-13 | 0.620188001 | 0.406 | 0.066 | 3.14E-09 | 9 | 6.151515 |
| Vcp | 3.51E-13 | 0.558347297 | 0.812 | 0.519 | 3.49E-09 | 9 | 1.564547 |
| Cish | 4.54E-13 | 0.574965726 | 0.344 | 0.045 | 4.51E-09 | 9 | 7.644444 |
| Mdh1 | 4.99E-13 | 0.505659214 | 0.906 | 0.692 | 4.96E-09 | 9 | 1.309249 |
| Fth1 | 5.38E-13 | 0.435434572 | 1 | 0.997 | 5.35E-09 | 9 | 1.003009 |
| Dapp1 | 6.25E-13 | 0.454350444 | 0.359 | 0.097 | 6.22E-09 | 9 | 3.701031 |
| Ebp | 6.95E-13 | 0.443649089 | 0.5 | 0.264 | 6.91E-09 | 9 | 1.893939 |
| Rfk | 6.99E-13 | 0.475287032 | 0.469 | 0.113 | 6.95E-09 | 9 | 4.150442 |
| Sytl1 | 7.20E-13 | 0.520446448 | 0.469 | 0.107 | 7.15E-09 | 9 | 4.383178 |
| Hbs1l | 1.46E-12 | 0.459739147 | 0.344 | 0.091 | 1.45E-08 | 9 | 3.78022 |
| Batf | 1.46E-12 | 0.582472207 | 0.578 | 0.189 | 1.46E-08 | 9 | 3.058201 |
| Arpc3 | 1.91E-12 | 0.438009564 | 1 | 0.814 | 1.90E-08 | 9 | 1.228501 |
| Crif2 | 2.10E-12 | 0.535163898 | 0.438 | 0.138 | 2.09E-08 | 9 | 3.173913 |
| Cenpa | 2.51E-12 | 0.533981167 | 0.344 | 0.104 | 2.50E-08 | 9 | 3.307692 |
| Gng2 | 3.10E-12 | 0.52753231 | 0.484 | 0.12 | 3.09E-08 | 9 | 4.033333 |
| Cd2 | 3.18E-12 | 0.521052876 | 1 | 0.864 | 3.16E-08 | 9 | 1.157407 |
| Pomp | 3.21E-12 | 0.498113908 | 0.922 | 0.701 | 3.19E-08 | 9 | 1.315264 |
| Tecr | 3.62E-12 | 0.503403934 | 0.828 | 0.455 | 3.60E-08 | 9 | 1.81978 |
| Tox | 3.94E-12 | 0.509012355 | 0.484 | 0.21 | 3.92E-08 | 9 | 2.304762 |
| Crem | 4.02E-12 | 0.431595491 | 0.297 | 0.041 | 4.00E-08 | 9 | 7.243902 |
| Ptger4 | 4.45E-12 | 0.550915898 | 0.469 | 0.11 | 4.42E-08 | 9 | 4.263636 |
| Vasp | 4.59E-12 | 0.51282003 | 0.953 | 0.814 | 4.56E-08 | 9 | 1.170762 |
| Slamf6 | 6.96E-12 | 0.46779477 | 0.812 | 0.38 | 6.92E-08 | 9 | 2.136842 |
| Rarg | 7.08E-12 | 0.467817578 | 0.312 | 0.074 | 7.04E-08 | 9 | 4.216216 |
| Ccs | 8.00E-12 | 0.489473648 | 0.469 | 0.223 | 7.95E-08 | 9 | 2.103139 |
| N4bp1 | 9.13E-12 | 0.530903959 | 0.438 | 0.119 | 9.07E-08 | 9 | 3.680672 |
| Casp3 | 1.07E-11 | 0.322789272 | 0.266 | 0.025 | 1.07E-07 | 9 | 10.64 |
| Gpx1 | 1.18E-11 | 0.516009235 | 0.844 | 0.614 | 1.18E-07 | 9 | 1.374593 |
| Gnb2 | 1.31E-11 | 0.505504528 | 0.906 | 0.639 | 1.30E-07 | 9 | 1.41784 |
| Gnai2 | 1.41E-11 | 0.492715739 | 0.844 | 0.701 | 1.40E-07 | 9 | 1.203994 |
| Spcs1 | 1.71E-11 | 0.473140986 | 0.828 | 0.67 | 1.70E-07 | 9 | 1.235821 |
| Eva1b | 1.74E-11 | 0.499434662 | 0.641 | 0.224 | 1.73E-07 | 9 | 2.861607 |
| Arpc1b | 2.35E-11 | 0.423751525 | 1 | 0.957 | 2.34E-07 | 9 | 1.044932 |
| Prkar1a | 2.46E-11 | 0.497592142 | 0.906 | 0.56 | 2.45E-07 | 9 | 1.617857 |
| Mthfsl | 2.72E-11 | 0.49839457 | 0.438 | 0.141 | 2.70E-07 | 9 | 3.106383 |
| Aprt | 2.99E-11 | 0.506431727 | 0.797 | 0.508 | 2.97E-07 | 9 | 1.568898 |
| Psemb3 | 3.81E-11 | 0.463492601 | 0.891 | 0.741 | 3.79E-07 | 9 | 1.202429 |
| Fxyd5 | 3.91E-11 | 0.467512947 | 1 | 0.959 | 3.88E-07 | 9 | 1.042753 |
| Tceb2 | 3.91E-11 | 0.442017724 | 0.969 | 0.835 | 3.89E-07 | 9 | 1.160479 |
| Mcm6 | 4.01E-11 | 0.49870356 | 0.328 | 0.1 | 3.98E-07 | 9 | 3.28 |
| Rbm3 | 4.23E-11 | 0.435456026 | 1 | 0.952 | 4.20E-07 | 9 | 1.05042 |

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|----------|----------|-------------|-------|-------|----------|---|----------|
| Itgb1 | 4.25E-11 | 0.736724386 | 0.531 | 0.209 | 4.23E-07 | 9 | 2.54067 |
| Ywhaq | 4.50E-11 | 0.484253844 | 0.906 | 0.677 | 4.47E-07 | 9 | 1.338257 |
| Lamtor5 | 5.70E-11 | 0.503838679 | 0.797 | 0.439 | 5.66E-07 | 9 | 1.81549 |
| Sypl | 5.82E-11 | 0.409490629 | 0.375 | 0.08 | 5.79E-07 | 9 | 4.6875 |
| Ppib | 6.04E-11 | 0.466997545 | 0.938 | 0.768 | 6.00E-07 | 9 | 1.221354 |
| Shfm1 | 6.93E-11 | 0.430228542 | 0.984 | 0.849 | 6.89E-07 | 9 | 1.159011 |
| Cfl1 | 9.07E-11 | 0.353926976 | 1 | 0.995 | 9.02E-07 | 9 | 1.005025 |
| Snx20 | 9.32E-11 | 0.459620736 | 0.562 | 0.205 | 9.26E-07 | 9 | 2.741463 |
| Wls | 9.61E-11 | 0.486093666 | 0.312 | 0.053 | 9.55E-07 | 9 | 5.886792 |
| Ldha | 9.75E-11 | 0.48704154 | 0.969 | 0.898 | 9.70E-07 | 9 | 1.079065 |
| Junb | 9.98E-11 | 0.607594093 | 0.766 | 0.448 | 9.92E-07 | 9 | 1.709821 |
| Ubl3 | 1.03E-10 | 0.490574449 | 0.484 | 0.165 | 1.02E-06 | 9 | 2.933333 |
| Lrba | 1.07E-10 | 0.336663633 | 0.312 | 0.059 | 1.06E-06 | 9 | 5.288136 |
| Plk3 | 1.19E-10 | 0.516612652 | 0.266 | 0.04 | 1.19E-06 | 9 | 6.65 |
| Cd81 | 1.46E-10 | 0.603610324 | 0.516 | 0.174 | 1.45E-06 | 9 | 2.965517 |
| Gnas | 1.49E-10 | 0.453243043 | 0.953 | 0.865 | 1.48E-06 | 9 | 1.101734 |
| M6pr | 1.49E-10 | 0.467507252 | 0.656 | 0.36 | 1.48E-06 | 9 | 1.822222 |
| Dynlrb1 | 1.59E-10 | 0.463352935 | 0.766 | 0.448 | 1.58E-06 | 9 | 1.709821 |
| Trp53i11 | 2.11E-10 | 0.468550753 | 0.359 | 0.08 | 2.10E-06 | 9 | 4.4875 |
| Tsc22d4 | 2.19E-10 | 0.477244533 | 0.875 | 0.625 | 2.17E-06 | 9 | 1.4 |
| Nek7 | 2.23E-10 | 0.519886544 | 0.609 | 0.238 | 2.22E-06 | 9 | 2.558824 |
| Capza2 | 2.29E-10 | 0.451671449 | 0.891 | 0.573 | 2.27E-06 | 9 | 1.554974 |
| Oaz1 | 2.68E-10 | 0.353182703 | 1 | 0.997 | 2.67E-06 | 9 | 1.003009 |
| Rac2 | 2.77E-10 | 0.332804504 | 1 | 0.992 | 2.75E-06 | 9 | 1.008065 |
| Atp5c1 | 3.66E-10 | 0.42298695 | 0.984 | 0.794 | 3.63E-06 | 9 | 1.239295 |
| Rnaset2a | 3.66E-10 | 0.464983968 | 0.953 | 0.817 | 3.63E-06 | 9 | 1.166463 |
| Pon2 | 3.76E-10 | 0.523735489 | 0.469 | 0.174 | 3.74E-06 | 9 | 2.695402 |
| Aplp2 | 4.07E-10 | 0.421934941 | 0.359 | 0.099 | 4.04E-06 | 9 | 3.626263 |
| Wdr1 | 5.48E-10 | 0.493802443 | 0.781 | 0.487 | 5.45E-06 | 9 | 1.603696 |
| Izumo1r | 5.96E-10 | 0.830812727 | 0.594 | 0.235 | 5.93E-06 | 9 | 2.52766 |
| GImp | 6.54E-10 | 0.454499084 | 0.594 | 0.29 | 6.50E-06 | 9 | 2.048276 |
| Pdia3 | 7.34E-10 | 0.470463281 | 0.906 | 0.735 | 7.30E-06 | 9 | 1.232653 |
| Slbp | 8.21E-10 | 0.486716235 | 0.547 | 0.319 | 8.16E-06 | 9 | 1.714734 |
| Rbl2 | 8.62E-10 | 0.445014396 | 0.484 | 0.151 | 8.57E-06 | 9 | 3.205298 |
| Jund | 9.31E-10 | 0.496529153 | 0.844 | 0.577 | 9.26E-06 | 9 | 1.462738 |
| Rassf1 | 9.37E-10 | 0.410266438 | 0.375 | 0.188 | 9.31E-06 | 9 | 1.994681 |
| Zbtb38 | 1.09E-09 | 0.480607721 | 0.469 | 0.153 | 1.09E-05 | 9 | 3.065359 |
| Ppil1 | 1.20E-09 | 0.370151061 | 0.344 | 0.119 | 1.19E-05 | 9 | 2.890756 |
| Agpat4 | 1.49E-09 | 0.379928628 | 0.297 | 0.079 | 1.48E-05 | 9 | 3.759494 |
| Manf | 1.54E-09 | 0.451416854 | 0.781 | 0.544 | 1.53E-05 | 9 | 1.435662 |
| Atox1 | 1.82E-09 | 0.456544266 | 0.875 | 0.584 | 1.81E-05 | 9 | 1.498288 |
| Coro1a | 1.85E-09 | 0.304569228 | 1 | 0.998 | 1.84E-05 | 9 | 1.002004 |
| Atp5j2 | 1.91E-09 | 0.409854249 | 0.984 | 0.873 | 1.90E-05 | 9 | 1.127148 |
| Mthfs | 1.99E-09 | 0.424547046 | 0.359 | 0.108 | 1.98E-05 | 9 | 3.324074 |
| Ttc39b | 2.00E-09 | 0.257244992 | 0.344 | 0.09 | 1.99E-05 | 9 | 3.822222 |
| Top2a | 2.09E-09 | 0.458813724 | 0.281 | 0.064 | 2.08E-05 | 9 | 4.390625 |
| Necap2 | 2.33E-09 | 0.33713296 | 0.531 | 0.218 | 2.32E-05 | 9 | 2.43578 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Nfkbia | 2.35E-09 | 0.65870929 | 0.75 | 0.578 | 2.34E-05 | 9 | 1.297578 |
| Unc119 | 2.83E-09 | 0.370344522 | 0.281 | 0.046 | 2.81E-05 | 9 | 6.108696 |
| Nt5c3b | 3.20E-09 | 0.30888224 | 0.422 | 0.209 | 3.18E-05 | 9 | 2.019139 |
| Ubb | 3.35E-09 | 0.327946266 | 1 | 1 | 3.33E-05 | 9 | 1 |
| Plgrkt | 3.43E-09 | 0.471468633 | 0.734 | 0.381 | 3.41E-05 | 9 | 1.926509 |
| Psme2 | 3.53E-09 | 0.418056828 | 1 | 0.882 | 3.50E-05 | 9 | 1.133787 |
| Calm3 | 3.54E-09 | 0.465823631 | 0.766 | 0.482 | 3.52E-05 | 9 | 1.589212 |
| Alad | 3.55E-09 | 0.377335261 | 0.328 | 0.076 | 3.53E-05 | 9 | 4.315789 |
| Commd3 | 4.15E-09 | 0.386576766 | 0.719 | 0.36 | 4.12E-05 | 9 | 1.997222 |
| D1Ertd622e | 4.15E-09 | 0.38734653 | 0.359 | 0.097 | 4.12E-05 | 9 | 3.701031 |
| Smdt1 | 4.61E-09 | 0.431052416 | 0.844 | 0.599 | 4.58E-05 | 9 | 1.409015 |
| Gmnn | 4.91E-09 | 0.37984058 | 0.281 | 0.098 | 4.88E-05 | 9 | 2.867347 |
| Nucb1 | 4.96E-09 | 0.423688 | 0.453 | 0.165 | 4.93E-05 | 9 | 2.745455 |
| Sh3bgrl | 5.05E-09 | 0.353687711 | 0.375 | 0.09 | 5.02E-05 | 9 | 4.166667 |
| Cox17 | 5.78E-09 | 0.439907545 | 0.859 | 0.619 | 5.74E-05 | 9 | 1.387722 |
| Coro7 | 5.95E-09 | 0.320674094 | 0.359 | 0.113 | 5.92E-05 | 9 | 3.176991 |
| 2310001H17Rik | 6.06E-09 | 0.484959749 | 0.531 | 0.281 | 6.03E-05 | 9 | 1.88968 |
| Wnk1 | 6.32E-09 | 0.465143635 | 0.734 | 0.463 | 6.28E-05 | 9 | 1.585313 |
| Cox5a | 6.83E-09 | 0.41991358 | 0.859 | 0.743 | 6.79E-05 | 9 | 1.156124 |
| Capns1 | 7.14E-09 | 0.456760464 | 0.828 | 0.47 | 7.10E-05 | 9 | 1.761702 |
| Plp2 | 7.34E-09 | 0.412908041 | 0.422 | 0.117 | 7.30E-05 | 9 | 3.606838 |
| Cers4 | 7.56E-09 | 0.404341794 | 0.422 | 0.119 | 7.51E-05 | 9 | 3.546218 |
| Dek | 7.90E-09 | 0.470376967 | 0.672 | 0.458 | 7.85E-05 | 9 | 1.467249 |
| Sla | 8.15E-09 | 0.46959399 | 0.469 | 0.183 | 8.10E-05 | 9 | 2.562842 |
| Ndufb8 | 8.58E-09 | 0.436686281 | 0.844 | 0.557 | 8.52E-05 | 9 | 1.51526 |
| Ikzf3 | 9.07E-09 | 0.41387863 | 0.406 | 0.136 | 9.02E-05 | 9 | 2.985294 |
| Serp1 | 9.46E-09 | 0.390418754 | 0.75 | 0.386 | 9.40E-05 | 9 | 1.943005 |
| Cd37 | 1.05E-08 | 0.454064871 | 0.875 | 0.623 | 0.000104333 | 9 | 1.404494 |
| Ndufa11 | 1.11E-08 | 0.401014622 | 0.844 | 0.55 | 0.000110118 | 9 | 1.534545 |
| Selk | 1.11E-08 | 0.421292168 | 0.859 | 0.584 | 0.000110735 | 9 | 1.47089 |
| Bnip2 | 1.16E-08 | 0.394459604 | 0.547 | 0.219 | 0.000115287 | 9 | 2.497717 |
| Cab39 | 1.24E-08 | 0.437152805 | 0.609 | 0.252 | 0.000123698 | 9 | 2.416667 |
| Adss | 1.27E-08 | 0.35826647 | 0.578 | 0.351 | 0.000126038 | 9 | 1.646724 |
| Hacd3 | 1.30E-08 | 0.405313829 | 0.312 | 0.103 | 0.000129665 | 9 | 3.029126 |
| Sys1 | 1.35E-08 | 0.365854366 | 0.734 | 0.419 | 0.000134361 | 9 | 1.75179 |
| Ech1 | 1.41E-08 | 0.392078595 | 0.672 | 0.324 | 0.000140552 | 9 | 2.074074 |
| Ube2b | 1.58E-08 | 0.416647055 | 0.859 | 0.603 | 0.000157041 | 9 | 1.424544 |
| Preli1 | 1.71E-08 | 0.451319112 | 0.812 | 0.564 | 0.000170014 | 9 | 1.439716 |
| Dctpp1 | 1.92E-08 | 0.431401441 | 0.484 | 0.187 | 0.000190513 | 9 | 2.588235 |
| 1110008P14Rik | 2.04E-08 | 0.405341491 | 0.562 | 0.228 | 0.000202777 | 9 | 2.464912 |
| Coro1b | 2.25E-08 | 0.40264948 | 0.578 | 0.298 | 0.000223647 | 9 | 1.939597 |
| Cox6c | 2.57E-08 | 0.338820816 | 1 | 0.927 | 0.000255487 | 9 | 1.078749 |
| Rftn1 | 2.70E-08 | 0.409111771 | 0.547 | 0.273 | 0.000268773 | 9 | 2.003663 |
| Stap1 | 2.73E-08 | 0.348250701 | 0.375 | 0.178 | 0.000271716 | 9 | 2.106742 |
| Mlf2 | 2.78E-08 | 0.343720426 | 0.516 | 0.296 | 0.000275972 | 9 | 1.743243 |
| Psmd8 | 2.84E-08 | 0.438922914 | 0.812 | 0.472 | 0.000282276 | 9 | 1.720339 |
| Swap70 | 2.94E-08 | 0.364853463 | 0.281 | 0.052 | 0.000292272 | 9 | 5.403846 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Edf1 | 2.94E-08 | 0.395243916 | 0.953 | 0.747 | 0.000292344 | 9 | 1.27577 |
| Tmem123 | 2.95E-08 | 0.308536517 | 0.484 | 0.357 | 0.000293648 | 9 | 1.355742 |
| AU020206 | 3.09E-08 | 0.332856808 | 0.297 | 0.068 | 0.000307569 | 9 | 4.367647 |
| Gm42418 | 3.24E-08 | 0.432282228 | 0.922 | 0.907 | 0.000321606 | 9 | 1.016538 |
| Chchd2 | 3.26E-08 | 0.370003118 | 0.984 | 0.894 | 0.000324441 | 9 | 1.100671 |
| Mvb12a | 4.24E-08 | 0.205527194 | 0.344 | 0.151 | 0.00042179 | 9 | 2.278146 |
| E2f2 | 4.39E-08 | 0.257491989 | 0.281 | 0.062 | 0.00043661 | 9 | 4.532258 |
| Vamp7 | 4.49E-08 | 0.35794197 | 0.359 | 0.088 | 0.000446528 | 9 | 4.079545 |
| Blvra | 4.78E-08 | 0.234298297 | 0.422 | 0.164 | 0.000475594 | 9 | 2.573171 |
| Cyth4 | 4.87E-08 | 0.406518015 | 0.438 | 0.188 | 0.000483726 | 9 | 2.329787 |
| Timp2 | 4.87E-08 | 0.381601001 | 0.453 | 0.183 | 0.000483797 | 9 | 2.47541 |
| Pdia6 | 4.87E-08 | 0.388021871 | 0.562 | 0.377 | 0.000484093 | 9 | 1.490716 |
| Prdx4 | 5.66E-08 | 0.380460638 | 0.359 | 0.088 | 0.000563062 | 9 | 4.079545 |
| Tmbim6 | 7.11E-08 | 0.398208634 | 0.953 | 0.843 | 0.000706529 | 9 | 1.130486 |
| R3hdm4 | 7.24E-08 | 0.313843705 | 0.516 | 0.293 | 0.000720093 | 9 | 1.761092 |
| Sart1 | 7.45E-08 | 0.36505126 | 0.547 | 0.235 | 0.000740701 | 9 | 2.32766 |
| Comt | 7.72E-08 | 0.374412294 | 0.344 | 0.094 | 0.000767178 | 9 | 3.659574 |
| Ndufa13 | 8.16E-08 | 0.372601766 | 0.969 | 0.781 | 0.00081121 | 9 | 1.240717 |
| Kdm4a | 9.07E-08 | 0.26579797 | 0.266 | 0.058 | 0.000901142 | 9 | 4.586207 |
| Arf5 | 9.30E-08 | 0.37182748 | 0.953 | 0.836 | 0.000924619 | 9 | 1.139952 |
| Ywhae | 9.57E-08 | 0.422465053 | 0.766 | 0.536 | 0.000951211 | 9 | 1.429104 |
| Ppp2r1a | 9.90E-08 | 0.375574523 | 0.516 | 0.202 | 0.000983617 | 9 | 2.554455 |
| Fkbp2 | 1.00E-07 | 0.424139728 | 0.422 | 0.172 | 0.000997673 | 9 | 2.453488 |
| Tbcb | 1.06E-07 | 0.289377938 | 0.359 | 0.16 | 0.001058531 | 9 | 2.24375 |
| Mtdh | 1.11E-07 | 0.416826498 | 0.797 | 0.544 | 0.001108283 | 9 | 1.465074 |
| Anxa6 | 1.12E-07 | 0.443998929 | 0.797 | 0.599 | 0.001117491 | 9 | 1.330551 |
| Cks2 | 1.18E-07 | 0.407962292 | 0.297 | 0.079 | 0.00117446 | 9 | 3.759494 |
| Slc35b1 | 1.19E-07 | 0.232193236 | 0.344 | 0.121 | 0.001179867 | 9 | 2.842975 |
| Sdf2l1 | 1.20E-07 | 0.356692177 | 0.422 | 0.17 | 0.0011883 | 9 | 2.482353 |
| Gsr | 1.21E-07 | 0.283454233 | 0.281 | 0.086 | 0.001202011 | 9 | 3.267442 |
| Gbp7 | 1.24E-07 | 0.475026521 | 0.641 | 0.362 | 0.001232607 | 9 | 1.770718 |
| Asxl1 | 1.29E-07 | 0.387507528 | 0.391 | 0.131 | 0.001279997 | 9 | 2.984733 |
| Ar15c | 1.47E-07 | 0.476384469 | 0.609 | 0.339 | 0.001462353 | 9 | 1.79646 |
| Mbnl1 | 1.55E-07 | 0.371030884 | 0.938 | 0.877 | 0.001540373 | 9 | 1.069555 |
| Ufd1l | 1.92E-07 | 0.357441327 | 0.438 | 0.173 | 0.001908256 | 9 | 2.531792 |
| Sep-07 | 1.97E-07 | 0.42857401 | 0.906 | 0.716 | 0.001954127 | 9 | 1.265363 |
| Sema4b | 2.21E-07 | 0.36795806 | 0.312 | 0.111 | 0.002200171 | 9 | 2.810811 |
| Tnfrsf13b | 2.24E-07 | 0.365926347 | 0.438 | 0.154 | 0.002224389 | 9 | 2.844156 |
| Sumo1 | 2.35E-07 | 0.378916904 | 0.891 | 0.682 | 0.002339487 | 9 | 1.306452 |
| Uqcrb | 2.36E-07 | 0.384647272 | 0.891 | 0.643 | 0.002347478 | 9 | 1.385692 |
| Bloc1s1 | 2.53E-07 | 0.330268384 | 0.547 | 0.248 | 0.002512948 | 9 | 2.205645 |
| Cox4i1 | 2.73E-07 | 0.258265807 | 1 | 0.981 | 0.002716397 | 9 | 1.019368 |
| Actr3 | 2.84E-07 | 0.359212902 | 0.969 | 0.924 | 0.002823735 | 9 | 1.048701 |
| Slc25a19 | 3.00E-07 | 0.325645453 | 0.281 | 0.071 | 0.002980917 | 9 | 3.957746 |
| Fis1 | 3.28E-07 | 0.387442964 | 0.906 | 0.71 | 0.003256272 | 9 | 1.276056 |
| 3830406C13Rik | 3.28E-07 | 0.271104004 | 0.406 | 0.149 | 0.003262252 | 9 | 2.724832 |
| Rheb | 3.48E-07 | 0.33980559 | 0.641 | 0.423 | 0.003454324 | 9 | 1.515366 |

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|---------|----------|-------------|-------|-------|-------------|---|----------|
| Ripk3 | 3.50E-07 | 0.29636099 | 0.359 | 0.121 | 0.003482939 | 9 | 2.966942 |
| Ezh2 | 3.51E-07 | 0.300788012 | 0.344 | 0.102 | 0.003489414 | 9 | 3.372549 |
| Sdf2 | 3.84E-07 | 0.183166852 | 0.406 | 0.178 | 0.003813613 | 9 | 2.280899 |
| Fam92a | 3.87E-07 | 0.280072577 | 0.297 | 0.084 | 0.003842537 | 9 | 3.535714 |
| Ap2s1 | 3.90E-07 | 0.406347957 | 0.797 | 0.517 | 0.003880358 | 9 | 1.541586 |
| Tspo | 3.96E-07 | 0.400828509 | 0.906 | 0.794 | 0.003933752 | 9 | 1.141058 |
| Arpc5 | 3.96E-07 | 0.376940002 | 0.922 | 0.859 | 0.003936631 | 9 | 1.073341 |
| Sat1 | 4.05E-07 | 0.435648631 | 0.766 | 0.493 | 0.004029825 | 9 | 1.553753 |
| Cnpy2 | 4.15E-07 | 0.344506381 | 0.5 | 0.209 | 0.004129847 | 9 | 2.392344 |
| Ccdc124 | 4.22E-07 | 0.399712542 | 0.641 | 0.311 | 0.00419225 | 9 | 2.061093 |
| Nde1 | 4.30E-07 | 0.21333099 | 0.281 | 0.079 | 0.004272149 | 9 | 3.556962 |
| Sh3glb1 | 4.38E-07 | 0.412937478 | 0.75 | 0.484 | 0.00435061 | 9 | 1.549587 |
| Nedd8 | 4.49E-07 | 0.368513823 | 0.891 | 0.71 | 0.004461656 | 9 | 1.25493 |
| Rtn3 | 4.55E-07 | 0.390992672 | 0.562 | 0.267 | 0.004527564 | 9 | 2.104869 |
| Minos1 | 4.59E-07 | 0.361324437 | 0.953 | 0.788 | 0.004562842 | 9 | 1.209391 |
| Anxa5 | 4.70E-07 | 0.358219033 | 0.562 | 0.296 | 0.004674052 | 9 | 1.898649 |
| Krtcap2 | 4.85E-07 | 0.385738164 | 0.891 | 0.699 | 0.004822403 | 9 | 1.274678 |
| Lmbrd1 | 4.99E-07 | 0.354641187 | 0.359 | 0.105 | 0.004965004 | 9 | 3.419048 |
| Sar1b | 5.19E-07 | 0.273745275 | 0.484 | 0.258 | 0.005163009 | 9 | 1.875969 |
| Cebpg | 5.40E-07 | 0.257187056 | 0.344 | 0.123 | 0.005364382 | 9 | 2.796748 |
| Ubl5 | 5.57E-07 | 0.373518225 | 0.938 | 0.849 | 0.005536847 | 9 | 1.104829 |
| Nmb | 5.69E-07 | 0.359444566 | 0.297 | 0.074 | 0.005656669 | 9 | 4.013514 |
| H13 | 5.86E-07 | 0.399935796 | 0.719 | 0.44 | 0.005820226 | 9 | 1.634091 |
| Rcbtb2 | 5.99E-07 | 0.372353577 | 0.391 | 0.141 | 0.005958487 | 9 | 2.77305 |
| Bcl2a1b | 6.07E-07 | 0.499226854 | 0.406 | 0.137 | 0.006032986 | 9 | 2.963504 |
| Myl12a | 6.13E-07 | 0.321760979 | 1 | 0.951 | 0.006093236 | 9 | 1.051525 |
| Agfg1 | 6.23E-07 | 0.349016724 | 0.469 | 0.218 | 0.006194991 | 9 | 2.151376 |
| Klf6 | 6.45E-07 | 0.398737395 | 0.547 | 0.291 | 0.006408658 | 9 | 1.879725 |
| Mtch1 | 6.53E-07 | 0.250999924 | 0.312 | 0.096 | 0.006493118 | 9 | 3.25 |
| Gnb1 | 7.18E-07 | 0.279199546 | 0.562 | 0.29 | 0.007137662 | 9 | 1.937931 |
| Ptp4a2 | 7.29E-07 | 0.396021573 | 0.922 | 0.706 | 0.007250558 | 9 | 1.305949 |
| Rac1 | 7.68E-07 | 0.389791997 | 0.859 | 0.67 | 0.007633293 | 9 | 1.28209 |
| Ankrd12 | 7.77E-07 | 0.424936921 | 0.703 | 0.47 | 0.007724063 | 9 | 1.495745 |
| Uap1l1 | 8.25E-07 | 0.276691815 | 0.266 | 0.059 | 0.008196017 | 9 | 4.508475 |
| Chmp2a | 8.85E-07 | 0.400459245 | 0.797 | 0.562 | 0.008799004 | 9 | 1.418149 |
| Etfb | 9.24E-07 | 0.358102496 | 0.578 | 0.297 | 0.00918279 | 9 | 1.946128 |
| Baz1a | 9.73E-07 | 0.379954347 | 0.438 | 0.193 | 0.009674555 | 9 | 2.26943 |
| Akr1b10 | 9.78E-07 | 0.34296968 | 0.328 | 0.106 | 0.009718714 | 9 | 3.09434 |
| Ppp2r3c | 9.80E-07 | 0.180821286 | 0.281 | 0.092 | 0.009741981 | 9 | 3.054348 |
| Wdr26 | 1.04E-06 | 0.277548386 | 0.391 | 0.174 | 0.01029102 | 9 | 2.247126 |
| Cpsf2 | 1.04E-06 | 0.349804985 | 0.391 | 0.15 | 0.010366537 | 9 | 2.606667 |
| Cox16 | 1.09E-06 | 0.1932262 | 0.344 | 0.139 | 0.010827002 | 9 | 2.47482 |
| Tspan32 | 1.19E-06 | 0.252137827 | 0.797 | 0.483 | 0.011854129 | 9 | 1.650104 |
| Pcna | 1.20E-06 | 0.239615447 | 0.344 | 0.289 | 0.011882571 | 9 | 1.190311 |
| Commd2 | 1.24E-06 | 0.233456781 | 0.391 | 0.242 | 0.012288676 | 9 | 1.615702 |
| Rab19 | 1.24E-06 | 0.299515511 | 0.297 | 0.093 | 0.012360306 | 9 | 3.193548 |
| Fopnl | 1.29E-06 | 0.030810635 | 0.266 | 0.179 | 0.012822144 | 9 | 1.486034 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Polr1d | 1.35E-06 | 0.376976144 | 0.859 | 0.673 | 0.013467424 | 9 | 1.276374 |
| Traf2 | 1.39E-06 | 0.225591364 | 0.281 | 0.127 | 0.01377774 | 9 | 2.212598 |
| Psm3 | 1.40E-06 | 0.377375726 | 0.891 | 0.731 | 0.013900973 | 9 | 1.218878 |
| Atp5g3 | 1.41E-06 | 0.360774751 | 0.812 | 0.728 | 0.013975475 | 9 | 1.115385 |
| Lamp2 | 1.42E-06 | 0.32490539 | 0.328 | 0.092 | 0.014143737 | 9 | 3.565217 |
| Dynll1 | 1.50E-06 | 0.392812583 | 0.906 | 0.828 | 0.014863528 | 9 | 1.094203 |
| Map7d1 | 1.51E-06 | 0.351502601 | 0.281 | 0.082 | 0.01503511 | 9 | 3.426829 |
| Mrps21 | 1.51E-06 | 0.39115378 | 0.797 | 0.543 | 0.015042674 | 9 | 1.467772 |
| Rab8b | 1.53E-06 | 0.403693714 | 0.391 | 0.148 | 0.015161609 | 9 | 2.641892 |
| Arhgap25 | 1.54E-06 | 0.338514142 | 0.516 | 0.223 | 0.015321474 | 9 | 2.313901 |
| Tmem109 | 1.56E-06 | 0.281010871 | 0.312 | 0.086 | 0.015484655 | 9 | 3.627907 |
| Srd5a3 | 1.63E-06 | 0.293212506 | 0.359 | 0.122 | 0.016198479 | 9 | 2.942623 |
| Ctla2a | 1.64E-06 | 0.354296923 | 0.266 | 0.057 | 0.01633803 | 9 | 4.666667 |
| Nrm | 1.65E-06 | 0.242102524 | 0.281 | 0.097 | 0.016410432 | 9 | 2.896907 |
| H3f3b | 1.66E-06 | 0.316538373 | 0.984 | 0.994 | 0.016548241 | 9 | 0.98994 |
| Pdia4 | 1.68E-06 | 0.372296492 | 0.625 | 0.295 | 0.016651362 | 9 | 2.118644 |
| BC029722 | 1.71E-06 | 0.09475141 | 0.281 | 0.128 | 0.017042142 | 9 | 2.195313 |
| Eif1ax | 1.82E-06 | 0.415207578 | 0.625 | 0.342 | 0.018048991 | 9 | 1.827485 |
| Cox6b1 | 1.83E-06 | 0.333255297 | 0.969 | 0.874 | 0.018197816 | 9 | 1.108696 |
| Lrrfip2 | 1.87E-06 | 0.302254073 | 0.266 | 0.063 | 0.01860506 | 9 | 4.222222 |
| Triobp | 1.90E-06 | 0.393768562 | 0.344 | 0.142 | 0.018864987 | 9 | 2.422535 |
| Ypel3 | 1.94E-06 | 0.407187015 | 0.812 | 0.665 | 0.019263567 | 9 | 1.221053 |
| Dnase2a | 1.99E-06 | 0.34497934 | 0.328 | 0.129 | 0.019782477 | 9 | 2.542636 |
| Ube2l3 | 2.05E-06 | 0.378372425 | 0.688 | 0.504 | 0.020416516 | 9 | 1.365079 |
| Ier3ip1 | 2.19E-06 | 0.310242861 | 0.812 | 0.546 | 0.021735206 | 9 | 1.487179 |
| Fnta | 2.22E-06 | 0.14734512 | 0.484 | 0.265 | 0.022065106 | 9 | 1.826415 |
| Mxd4 | 2.26E-06 | 0.431320099 | 0.625 | 0.319 | 0.022417622 | 9 | 1.959248 |
| Rab5c | 2.37E-06 | 0.291793798 | 0.672 | 0.396 | 0.023540059 | 9 | 1.69697 |
| Sh3bgrl3 | 2.41E-06 | 0.354327035 | 0.969 | 0.969 | 0.023963936 | 9 | 1 |
| Dpp3 | 2.44E-06 | 0.231836413 | 0.391 | 0.174 | 0.024285344 | 9 | 2.247126 |
| Mapk1 | 2.47E-06 | 0.154284957 | 0.531 | 0.312 | 0.024504817 | 9 | 1.701923 |
| Ptma | 2.56E-06 | 0.382526334 | 1 | 0.994 | 0.025430174 | 9 | 1.006036 |
| Edem1 | 2.70E-06 | 0.314800793 | 0.469 | 0.195 | 0.026798419 | 9 | 2.405128 |
| Ethe1 | 2.79E-06 | 0.199987762 | 0.312 | 0.114 | 0.027763513 | 9 | 2.736842 |
| Mrfap1 | 3.00E-06 | 0.362721952 | 0.75 | 0.518 | 0.029779923 | 9 | 1.447876 |
| Rb1 | 3.07E-06 | 0.291198905 | 0.281 | 0.069 | 0.030466314 | 9 | 4.072464 |
| Wbp5 | 3.07E-06 | 0.36972931 | 0.359 | 0.139 | 0.030500332 | 9 | 2.582734 |
| Bcl7c | 3.11E-06 | 0.279826151 | 0.281 | 0.1 | 0.030925768 | 9 | 2.81 |
| Glr3 | 3.20E-06 | 0.339632327 | 0.641 | 0.431 | 0.031770534 | 9 | 1.487239 |
| Mgea5 | 3.42E-06 | 0.361677548 | 0.438 | 0.217 | 0.033982902 | 9 | 2.018433 |
| Trpv2 | 3.45E-06 | 0.20267515 | 0.312 | 0.116 | 0.0342673 | 9 | 2.689655 |
| Cox8a | 3.46E-06 | 0.2725269 | 0.984 | 0.927 | 0.034387291 | 9 | 1.061489 |
| Ppp3ca | 3.48E-06 | 0.198444066 | 0.438 | 0.233 | 0.034628805 | 9 | 1.879828 |
| Ormdl2 | 3.54E-06 | 0.330847215 | 0.438 | 0.187 | 0.035179988 | 9 | 2.342246 |
| Calr | 3.60E-06 | 0.405131521 | 0.844 | 0.704 | 0.035787591 | 9 | 1.198864 |
| Dynlt3 | 3.61E-06 | 0.347968295 | 0.297 | 0.076 | 0.03591758 | 9 | 3.907895 |
| Hsd11b1 | 3.76E-06 | 0.303384769 | 0.547 | 0.285 | 0.037345516 | 9 | 1.919298 |

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|----------|----------|-------------|-------|-------|-------------|---|----------|
| Metap2 | 3.78E-06 | 0.322341878 | 0.609 | 0.457 | 0.037531381 | 9 | 1.332604 |
| Rps6ka1 | 3.80E-06 | 0.327328534 | 0.344 | 0.158 | 0.037807104 | 9 | 2.177215 |
| Mrpl20 | 3.91E-06 | 0.3179939 | 0.672 | 0.398 | 0.038901713 | 9 | 1.688442 |
| Hnrnp11 | 3.95E-06 | 0.354288502 | 0.328 | 0.096 | 0.03927262 | 9 | 3.416667 |
| Arpc5l | 3.97E-06 | 0.355534784 | 0.734 | 0.589 | 0.039417915 | 9 | 1.24618 |
| Nudcd2 | 4.04E-06 | 0.340095717 | 0.547 | 0.264 | 0.040203258 | 9 | 2.07197 |
| Eif4ebp1 | 4.08E-06 | 0.242484507 | 0.266 | 0.071 | 0.040599621 | 9 | 3.746479 |
| Nabp1 | 4.31E-06 | 0.315078365 | 0.312 | 0.159 | 0.042822324 | 9 | 1.962264 |
| Nfs1 | 4.34E-06 | 0.161237519 | 0.328 | 0.148 | 0.043123571 | 9 | 2.216216 |
| Rnf149 | 4.35E-06 | 0.403400679 | 0.359 | 0.121 | 0.043253848 | 9 | 2.966942 |
| Ergic2 | 4.60E-06 | 0.205924508 | 0.375 | 0.201 | 0.045770489 | 9 | 1.865672 |
| Ncbp2 | 4.67E-06 | 0.191807625 | 0.344 | 0.149 | 0.046422899 | 9 | 2.308725 |
| Ssbp4 | 4.70E-06 | 0.318850454 | 0.547 | 0.308 | 0.046719106 | 9 | 1.775974 |
| Asl | 4.72E-06 | 0.244531469 | 0.297 | 0.104 | 0.046943046 | 9 | 2.855769 |
| Fmnl1 | 4.82E-06 | 0.346620592 | 0.453 | 0.25 | 0.04795028 | 9 | 1.812 |
| Vps29 | 4.86E-06 | 0.383416568 | 0.594 | 0.365 | 0.048306608 | 9 | 1.627397 |
| Pld3 | 4.95E-06 | 0.278716545 | 0.469 | 0.257 | 0.049238755 | 9 | 1.824903 |
| Sec62 | 5.00E-06 | 0.327857382 | 0.781 | 0.593 | 0.049658313 | 9 | 1.317032 |
| Lrrc58 | 5.07E-06 | 0.13973129 | 0.281 | 0.118 | 0.050379479 | 9 | 2.381356 |
| Psmc3 | 5.12E-06 | 0.22945512 | 0.656 | 0.423 | 0.050919905 | 9 | 1.550827 |
| Rpa2 | 5.34E-06 | 0.307361289 | 0.375 | 0.205 | 0.053052888 | 9 | 1.829268 |
| Laptm5 | 5.42E-06 | 0.342870018 | 0.938 | 0.902 | 0.05385074 | 9 | 1.039911 |
| Cdc42se2 | 5.50E-06 | 0.305462364 | 0.672 | 0.418 | 0.054661665 | 9 | 1.607656 |
| Pdlim2 | 5.54E-06 | 0.344572803 | 0.547 | 0.273 | 0.05504282 | 9 | 2.003663 |
| Slc2a3 | 5.62E-06 | 0.235796738 | 0.281 | 0.081 | 0.055851744 | 9 | 3.469136 |
| Acads | 5.71E-06 | 0.254940545 | 0.281 | 0.139 | 0.056747022 | 9 | 2.021583 |
| Bub3 | 5.72E-06 | 0.306018022 | 0.703 | 0.476 | 0.056894229 | 9 | 1.476891 |
| Tstd3 | 5.90E-06 | 0.225095052 | 0.266 | 0.077 | 0.05868448 | 9 | 3.454545 |
| Txndc5 | 6.04E-06 | 0.325008049 | 0.312 | 0.136 | 0.06000657 | 9 | 2.294118 |
| Pou2f2 | 6.12E-06 | 0.466462635 | 0.453 | 0.186 | 0.060877301 | 9 | 2.435484 |
| Tasp1 | 6.27E-06 | 0.352264094 | 0.266 | 0.103 | 0.062315494 | 9 | 2.582524 |
| Ppp2r5c | 6.39E-06 | 0.295545184 | 0.422 | 0.184 | 0.063500501 | 9 | 2.293478 |
| Cnih4 | 6.42E-06 | 0.341827412 | 0.453 | 0.194 | 0.063839054 | 9 | 2.335052 |
| Timm8b | 6.47E-06 | 0.378458183 | 0.578 | 0.317 | 0.064311999 | 9 | 1.823344 |
| Sdhb | 6.73E-06 | 0.367697903 | 0.812 | 0.557 | 0.066887241 | 9 | 1.45781 |
| Al662270 | 6.77E-06 | 0.364200106 | 0.594 | 0.313 | 0.067337658 | 9 | 1.897764 |
| H2afv | 6.85E-06 | 0.374951869 | 0.75 | 0.525 | 0.068107502 | 9 | 1.428571 |
| Kpna3 | 7.10E-06 | 0.154712512 | 0.266 | 0.115 | 0.070612116 | 9 | 2.313043 |
| Cdc42ep3 | 7.32E-06 | 0.250748205 | 0.375 | 0.184 | 0.072762523 | 9 | 2.038043 |
| Fcho1 | 7.38E-06 | 0.290344607 | 0.359 | 0.126 | 0.073354565 | 9 | 2.849206 |
| Bcap31 | 7.39E-06 | 0.292818525 | 0.719 | 0.46 | 0.073438595 | 9 | 1.563043 |
| Slc2 | 7.49E-06 | 0.179355502 | 0.328 | 0.174 | 0.074468836 | 9 | 1.885057 |
| Cmtm6 | 7.63E-06 | 0.25077444 | 0.438 | 0.299 | 0.075832898 | 9 | 1.464883 |
| Hif1a | 7.74E-06 | 0.393719464 | 0.484 | 0.201 | 0.076890962 | 9 | 2.40796 |
| Mea1 | 7.74E-06 | 0.244491584 | 0.469 | 0.23 | 0.076903741 | 9 | 2.03913 |
| Hiat1 | 7.78E-06 | 0.257949809 | 0.375 | 0.222 | 0.07730491 | 9 | 1.689189 |
| Snx3 | 7.89E-06 | 0.33692556 | 0.688 | 0.482 | 0.078417163 | 9 | 1.427386 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Pgp | 7.89E-06 | 0.254194816 | 0.359 | 0.192 | 0.078462613 | 9 | 1.869792 |
| Azin1 | 8.13E-06 | 0.347820171 | 0.406 | 0.145 | 0.080787942 | 9 | 2.8 |
| Sirt2 | 8.30E-06 | 0.354580458 | 0.391 | 0.175 | 0.082455432 | 9 | 2.234286 |
| Ier5 | 8.49E-06 | 0.387426244 | 0.688 | 0.519 | 0.084382624 | 9 | 1.325626 |
| Ssbp3 | 8.57E-06 | 0.366574982 | 0.375 | 0.132 | 0.08514204 | 9 | 2.840909 |
| Ndufs5 | 8.93E-06 | 0.343550508 | 0.812 | 0.529 | 0.0887216 | 9 | 1.534972 |
| Blmh | 9.23E-06 | 0.300573033 | 0.422 | 0.214 | 0.091783484 | 9 | 1.971963 |
| Mrpl54 | 9.24E-06 | 0.354196157 | 0.766 | 0.465 | 0.091884933 | 9 | 1.647312 |
| Kpnb1 | 9.36E-06 | 0.262676471 | 0.5 | 0.234 | 0.093067167 | 9 | 2.136752 |
| Far1 | 9.77E-06 | 0.291753655 | 0.312 | 0.126 | 0.097101066 | 9 | 2.47619 |
| Smap1 | 9.94E-06 | 0.338080957 | 0.578 | 0.297 | 0.09877284 | 9 | 1.946128 |
| Yipf1 | 1.00E-05 | 0.215567399 | 0.391 | 0.182 | 0.099722048 | 9 | 2.148352 |
| 2810474O19Rik | 1.02E-05 | 0.429229604 | 0.609 | 0.408 | 0.101061477 | 9 | 1.492647 |
| Snapc5 | 1.02E-05 | 0.24496186 | 0.594 | 0.319 | 0.10122579 | 9 | 1.862069 |
| Impa1 | 1.02E-05 | 0.308438741 | 0.453 | 0.216 | 0.101247977 | 9 | 2.097222 |
| Chkb | 1.06E-05 | 0.102130315 | 0.266 | 0.141 | 0.105733077 | 9 | 1.886525 |
| Ebpl | 1.12E-05 | 0.367831474 | 0.438 | 0.234 | 0.111132548 | 9 | 1.871795 |
| Psma4 | 1.12E-05 | 0.328997318 | 0.859 | 0.6 | 0.111420394 | 9 | 1.431667 |
| Prdx2 | 1.18E-05 | 0.31334566 | 0.609 | 0.359 | 0.117421866 | 9 | 1.696379 |
| Rhof | 1.21E-05 | 0.302457235 | 0.562 | 0.294 | 0.119784751 | 9 | 1.911565 |
| Rab5a | 1.26E-05 | 0.211636377 | 0.422 | 0.19 | 0.125123209 | 9 | 2.221053 |
| Hint1 | 1.27E-05 | 0.338601959 | 0.922 | 0.841 | 0.12642538 | 9 | 1.096314 |
| Naa10 | 1.28E-05 | 0.348651215 | 0.641 | 0.351 | 0.127624402 | 9 | 1.826211 |
| Mrpl33 | 1.32E-05 | 0.352320016 | 0.859 | 0.716 | 0.13149997 | 9 | 1.199721 |
| Arl4a | 1.33E-05 | 0.314716483 | 0.391 | 0.165 | 0.131863171 | 9 | 2.369697 |
| Dhrs7 | 1.37E-05 | 0.287688254 | 0.328 | 0.146 | 0.13573283 | 9 | 2.246575 |
| Clptm1 | 1.42E-05 | 0.100366011 | 0.312 | 0.159 | 0.140830932 | 9 | 1.962264 |
| Nsmce2 | 1.43E-05 | 0.228913593 | 0.375 | 0.161 | 0.142305054 | 9 | 2.329193 |
| Anxa11 | 1.43E-05 | 0.380364342 | 0.469 | 0.233 | 0.142475467 | 9 | 2.012876 |
| Rnh1 | 1.44E-05 | 0.314141257 | 0.469 | 0.2 | 0.143472685 | 9 | 2.345 |
| Rap1b | 1.47E-05 | 0.332697262 | 0.828 | 0.741 | 0.145963097 | 9 | 1.117409 |
| Gabarapl2 | 1.56E-05 | 0.323095112 | 0.859 | 0.619 | 0.155315827 | 9 | 1.387722 |
| Traf1 | 1.60E-05 | 0.333239628 | 0.453 | 0.3 | 0.159011569 | 9 | 1.51 |
| Tgfb1 | 1.61E-05 | 0.334765276 | 0.312 | 0.089 | 0.159538683 | 9 | 3.505618 |
| Plec | 1.66E-05 | 0.176193868 | 0.297 | 0.226 | 0.164671932 | 9 | 1.314159 |
| Ptms | 1.67E-05 | 0.253157974 | 0.359 | 0.14 | 0.16614035 | 9 | 2.564286 |
| Abhd17a | 1.68E-05 | 0.292895913 | 0.438 | 0.223 | 0.166913557 | 9 | 1.964126 |
| Wsb1 | 1.69E-05 | 0.178370524 | 0.312 | 0.135 | 0.168471595 | 9 | 2.311111 |
| Ppm1m | 1.70E-05 | 0.221028564 | 0.422 | 0.191 | 0.168656667 | 9 | 2.209424 |
| Dctn3 | 1.72E-05 | 0.223027044 | 0.641 | 0.418 | 0.170899394 | 9 | 1.533493 |
| Txn1 | 1.73E-05 | 0.320227081 | 0.812 | 0.63 | 0.172052488 | 9 | 1.288889 |
| Slc25a11 | 1.73E-05 | 0.215797307 | 0.438 | 0.355 | 0.172410809 | 9 | 1.233803 |
| Ybx1 | 1.84E-05 | 0.310147565 | 0.922 | 0.916 | 0.182444302 | 9 | 1.00655 |
| Kdelr2 | 1.92E-05 | 0.264132374 | 0.359 | 0.162 | 0.190489075 | 9 | 2.216049 |
| Ppp6c | 1.93E-05 | 0.183548558 | 0.438 | 0.217 | 0.19152363 | 9 | 2.018433 |
| Gpi1 | 1.93E-05 | 0.361083828 | 0.828 | 0.627 | 0.192201527 | 9 | 1.320574 |
| Zmym5 | 1.94E-05 | 0.258966673 | 0.406 | 0.175 | 0.193009736 | 9 | 2.32 |

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|---------------|----------|-------------|-------|-------|-------------|---|----------|
| Exosc8 | 2.00E-05 | 0.342224634 | 0.547 | 0.367 | 0.198391166 | 9 | 1.490463 |
| Pde6d | 2.10E-05 | 0.226424542 | 0.281 | 0.148 | 0.209077932 | 9 | 1.898649 |
| Hprt | 2.11E-05 | 0.334582532 | 0.719 | 0.446 | 0.209600511 | 9 | 1.612108 |
| Ap3b1 | 2.25E-05 | 0.248867944 | 0.328 | 0.164 | 0.223757479 | 9 | 2 |
| Hax1 | 2.34E-05 | 0.023511432 | 0.266 | 0.163 | 0.23218045 | 9 | 1.631902 |
| Grb2 | 2.34E-05 | 0.331139587 | 0.562 | 0.282 | 0.232544029 | 9 | 1.992908 |
| Il18r1 | 2.36E-05 | 0.390029421 | 0.344 | 0.129 | 0.23423025 | 9 | 2.666667 |
| Sc5d | 2.37E-05 | 0.280223249 | 0.266 | 0.074 | 0.235419641 | 9 | 3.594595 |
| Mical1 | 2.38E-05 | 0.220825675 | 0.312 | 0.162 | 0.23632532 | 9 | 1.925926 |
| Mien1 | 2.38E-05 | 0.324454338 | 0.734 | 0.48 | 0.236453154 | 9 | 1.529167 |
| Tmem258 | 2.42E-05 | 0.311404186 | 0.922 | 0.711 | 0.240116949 | 9 | 1.296765 |
| Ilk | 2.44E-05 | 0.141926336 | 0.469 | 0.265 | 0.24219469 | 9 | 1.769811 |
| Csnk2b | 2.45E-05 | 0.243210859 | 0.641 | 0.407 | 0.243033689 | 9 | 1.574939 |
| Uri1 | 2.50E-05 | 0.203517152 | 0.531 | 0.304 | 0.248406527 | 9 | 1.746711 |
| Syng2 | 2.52E-05 | 0.301706241 | 0.375 | 0.177 | 0.250787921 | 9 | 2.118644 |
| 1700123O2ORik | 2.53E-05 | 0.268142036 | 0.484 | 0.25 | 0.251951889 | 9 | 1.936 |
| Acadvl | 2.57E-05 | 0.281644572 | 0.375 | 0.211 | 0.255031218 | 9 | 1.777251 |
| Ergic3 | 2.66E-05 | 0.231353605 | 0.5 | 0.25 | 0.264695613 | 9 | 2 |
| Npepl1 | 2.71E-05 | 0.116667923 | 0.281 | 0.131 | 0.269641961 | 9 | 2.145038 |
| Dnmt1 | 2.74E-05 | 0.245584154 | 0.297 | 0.186 | 0.272091971 | 9 | 1.596774 |
| Rnf6 | 2.74E-05 | 0.192966756 | 0.438 | 0.224 | 0.272222362 | 9 | 1.955357 |
| Sec61g | 2.78E-05 | 0.292856574 | 0.922 | 0.874 | 0.276349232 | 9 | 1.05492 |
| Tmem167 | 2.78E-05 | 0.33065017 | 0.75 | 0.488 | 0.276514039 | 9 | 1.536885 |
| Card19 | 2.83E-05 | 0.155089772 | 0.266 | 0.162 | 0.281756144 | 9 | 1.641975 |
| Was | 2.96E-05 | 0.219621372 | 0.562 | 0.366 | 0.294619031 | 9 | 1.535519 |
| Selt | 3.11E-05 | 0.282975945 | 0.469 | 0.28 | 0.309596355 | 9 | 1.675 |
| Tmpo | 3.19E-05 | 0.328384363 | 0.516 | 0.273 | 0.317052037 | 9 | 1.89011 |
| Ccndbp1 | 3.19E-05 | 0.133850869 | 0.469 | 0.319 | 0.317058644 | 9 | 1.470219 |
| Sri | 3.30E-05 | 0.332598909 | 0.922 | 0.791 | 0.327808027 | 9 | 1.165613 |
| Gna13 | 3.32E-05 | 0.310045578 | 0.438 | 0.204 | 0.329829811 | 9 | 2.147059 |
| Slmo2 | 3.39E-05 | 0.242606155 | 0.375 | 0.152 | 0.337304415 | 9 | 2.467105 |
| Mmadhc | 3.48E-05 | 0.234422879 | 0.328 | 0.12 | 0.345610616 | 9 | 2.733333 |
| Orai1 | 3.51E-05 | 0.247276265 | 0.297 | 0.215 | 0.349061052 | 9 | 1.381395 |
| Sep-11 | 3.52E-05 | 0.224568568 | 0.281 | 0.087 | 0.349553158 | 9 | 3.229885 |
| Adipor1 | 3.57E-05 | 0.026895422 | 0.422 | 0.32 | 0.355089009 | 9 | 1.31875 |
| Psmb7 | 3.58E-05 | 0.321098807 | 0.609 | 0.414 | 0.355645763 | 9 | 1.471014 |
| Ctsa | 3.62E-05 | 0.260829891 | 0.328 | 0.23 | 0.359979375 | 9 | 1.426087 |
| Slmap | 3.63E-05 | 0.237328247 | 0.375 | 0.156 | 0.360396528 | 9 | 2.403846 |
| Kin | 3.63E-05 | 0.267720705 | 0.391 | 0.155 | 0.360445966 | 9 | 2.522581 |
| Esd | 3.66E-05 | 0.315016942 | 0.672 | 0.45 | 0.363531352 | 9 | 1.493333 |
| Tank | 3.77E-05 | 0.260585434 | 0.359 | 0.15 | 0.374885145 | 9 | 2.393333 |
| Ocel1 | 3.96E-05 | 0.328991327 | 0.391 | 0.169 | 0.393469598 | 9 | 2.313609 |
| Lsm1 | 3.97E-05 | 0.222122291 | 0.516 | 0.335 | 0.395064919 | 9 | 1.540299 |
| Edem2 | 4.10E-05 | 0.204251889 | 0.391 | 0.173 | 0.407105115 | 9 | 2.260116 |
| Trappc3 | 4.12E-05 | 0.309475683 | 0.516 | 0.241 | 0.409475094 | 9 | 2.141079 |
| Tbca | 4.18E-05 | 0.28968573 | 0.906 | 0.71 | 0.41576845 | 9 | 1.276056 |
| Trappc1 | 4.22E-05 | 0.184291729 | 0.406 | 0.248 | 0.419711348 | 9 | 1.637097 |

| | | | | | | | |
|-----------|----------|-------------|-------|-------|-------------|---|----------|
| Fli1 | 4.24E-05 | 0.234444478 | 0.484 | 0.252 | 0.421170991 | 9 | 1.920635 |
| Rrad | 4.28E-05 | 0.224689701 | 0.312 | 0.113 | 0.425190035 | 9 | 2.761062 |
| Emp3 | 4.29E-05 | 0.37418565 | 0.859 | 0.77 | 0.42598586 | 9 | 1.115584 |
| Hspa4l | 4.29E-05 | 0.278529493 | 0.266 | 0.074 | 0.426286728 | 9 | 3.594595 |
| Cast | 4.34E-05 | 0.354232676 | 0.453 | 0.282 | 0.430910274 | 9 | 1.606383 |
| Trip11 | 4.36E-05 | 0.227515859 | 0.484 | 0.29 | 0.433100961 | 9 | 1.668966 |
| Rhoa | 4.44E-05 | 0.312767407 | 0.953 | 0.808 | 0.44174645 | 9 | 1.179455 |
| Hes6 | 4.68E-05 | 0.046109118 | 0.328 | 0.202 | 0.465503019 | 9 | 1.623762 |
| Nabp2 | 4.76E-05 | 0.295512828 | 0.406 | 0.201 | 0.473565051 | 9 | 2.0199 |
| Donson | 4.77E-05 | 0.126930014 | 0.266 | 0.12 | 0.474137761 | 9 | 2.216667 |
| Pnp | 4.77E-05 | 0.245422128 | 0.312 | 0.105 | 0.474420509 | 9 | 2.971429 |
| Psmb2 | 4.82E-05 | 0.322703924 | 0.844 | 0.671 | 0.479314845 | 9 | 1.257824 |
| Cers5 | 4.88E-05 | 0.177117546 | 0.312 | 0.161 | 0.48544091 | 9 | 1.937888 |
| Ythdf2 | 4.91E-05 | 0.208054363 | 0.422 | 0.224 | 0.488307955 | 9 | 1.883929 |
| Psmb5 | 4.96E-05 | 0.34081173 | 0.719 | 0.544 | 0.492824215 | 9 | 1.321691 |
| Htatip2 | 4.96E-05 | 0.236862051 | 0.359 | 0.142 | 0.492879801 | 9 | 2.528169 |
| Zfp36l1 | 5.05E-05 | 0.328870421 | 0.516 | 0.335 | 0.502278072 | 9 | 1.540299 |
| Hnrnpab | 5.09E-05 | 0.35182263 | 0.656 | 0.49 | 0.50593774 | 9 | 1.338776 |
| Ifngr1 | 5.12E-05 | 0.294087634 | 0.641 | 0.453 | 0.508486849 | 9 | 1.415011 |
| Sf3b6 | 5.25E-05 | 0.30010022 | 0.828 | 0.634 | 0.52226807 | 9 | 1.305994 |
| Rab28 | 5.29E-05 | 0.177316739 | 0.266 | 0.146 | 0.525585026 | 9 | 1.821918 |
| Fh1 | 5.35E-05 | 0.218774342 | 0.281 | 0.142 | 0.531948529 | 9 | 1.978873 |
| Ccser2 | 5.41E-05 | 0.119270699 | 0.266 | 0.12 | 0.537811253 | 9 | 2.216667 |
| Api5 | 5.57E-05 | 0.151275763 | 0.422 | 0.23 | 0.553832776 | 9 | 1.834783 |
| Rpia | 5.59E-05 | 0.196874705 | 0.297 | 0.139 | 0.555798368 | 9 | 2.136691 |
| Degs1 | 5.62E-05 | 0.2405082 | 0.453 | 0.245 | 0.558236438 | 9 | 1.84898 |
| Ubl4a | 5.64E-05 | 0.296252252 | 0.391 | 0.252 | 0.560652551 | 9 | 1.551587 |
| Lsm14a | 5.65E-05 | 0.26779997 | 0.641 | 0.387 | 0.561297303 | 9 | 1.656331 |
| Mrpl40 | 5.79E-05 | 0.114905364 | 0.438 | 0.256 | 0.575983128 | 9 | 1.710938 |
| Zmpste24 | 5.92E-05 | 0.228880101 | 0.359 | 0.148 | 0.588591885 | 9 | 2.425676 |
| Trabd | 5.97E-05 | 0.230111837 | 0.359 | 0.185 | 0.593467144 | 9 | 1.940541 |
| Asnsd1 | 6.29E-05 | 0.314856983 | 0.406 | 0.211 | 0.624755329 | 9 | 1.924171 |
| Lsm12 | 6.43E-05 | 0.312238412 | 0.531 | 0.314 | 0.639133768 | 9 | 1.691083 |
| Hnrnpa2b1 | 6.44E-05 | 0.283563442 | 0.984 | 0.871 | 0.640285949 | 9 | 1.129736 |
| Psmd13 | 6.56E-05 | 0.275762868 | 0.531 | 0.334 | 0.652155801 | 9 | 1.58982 |
| Elovl1 | 6.68E-05 | 0.212844919 | 0.359 | 0.152 | 0.663710176 | 9 | 2.361842 |
| Gemin7 | 6.70E-05 | 0.189859361 | 0.484 | 0.311 | 0.66569962 | 9 | 1.55627 |
| Col4a3bp | 6.72E-05 | 0.218220852 | 0.266 | 0.087 | 0.668245532 | 9 | 3.057471 |
| Atp5f1 | 6.73E-05 | 0.275316101 | 0.969 | 0.812 | 0.669106897 | 9 | 1.19335 |
| Aftph | 6.84E-05 | 0.283570867 | 0.297 | 0.123 | 0.679553106 | 9 | 2.414634 |
| Lman2 | 6.95E-05 | 0.325361641 | 0.703 | 0.433 | 0.691109946 | 9 | 1.623557 |
| Maf1 | 7.03E-05 | 0.12370963 | 0.609 | 0.392 | 0.698658206 | 9 | 1.553571 |
| Leprot | 7.08E-05 | 0.338977162 | 0.438 | 0.182 | 0.703278387 | 9 | 2.406593 |
| Oxa1l | 7.15E-05 | 0.183137522 | 0.406 | 0.199 | 0.710235556 | 9 | 2.040201 |
| Ftl1 | 7.28E-05 | 0.323460131 | 1 | 0.991 | 0.723614429 | 9 | 1.009082 |
| H2-K1 | 7.40E-05 | 0.245111696 | 0.984 | 0.998 | 0.735687999 | 9 | 0.985972 |
| Ldb1 | 7.46E-05 | 0.289817052 | 0.438 | 0.209 | 0.741948082 | 9 | 2.095694 |

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|---------------|-------------|-------------|-------|-------|-------------|---|----------|
| Ppt1 | 7.49E-05 | 0.174782688 | 0.328 | 0.169 | 0.744118711 | 9 | 1.940828 |
| Ly6e | 7.64E-05 | 0.407059391 | 0.562 | 0.363 | 0.759789079 | 9 | 1.548209 |
| Coro1c | 7.71E-05 | 0.218495427 | 0.281 | 0.114 | 0.766273598 | 9 | 2.464912 |
| Tmem256 | 7.76E-05 | 0.331582512 | 0.609 | 0.396 | 0.771551822 | 9 | 1.537879 |
| Naa20 | 7.86E-05 | 0.288651675 | 0.469 | 0.249 | 0.781702967 | 9 | 1.883534 |
| Aldoa | 7.99E-05 | 0.314938025 | 0.875 | 0.79 | 0.794493027 | 9 | 1.107595 |
| Malt1 | 8.01E-05 | 0.299207419 | 0.312 | 0.149 | 0.796119006 | 9 | 2.09396 |
| Ccng2 | 8.20E-05 | 0.290090054 | 0.281 | 0.125 | 0.81509126 | 9 | 2.248 |
| 1110037F02Rik | 8.23E-05 | 0.235314543 | 0.312 | 0.123 | 0.818416993 | 9 | 2.536585 |
| Uso1 | 8.26E-05 | 0.034181361 | 0.297 | 0.183 | 0.820551334 | 9 | 1.622951 |
| Psenen | 8.47E-05 | 0.298269907 | 0.922 | 0.73 | 0.841986118 | 9 | 1.263014 |
| Ppp1r35 | 8.70E-05 | 0.176400181 | 0.406 | 0.227 | 0.864410081 | 9 | 1.788546 |
| Dcun1d1 | 8.86E-05 | 0.057735666 | 0.312 | 0.207 | 0.881171663 | 9 | 1.507246 |
| Cdk2ap2 | 9.00E-05 | 0.321464381 | 0.969 | 0.869 | 0.894738217 | 9 | 1.115075 |
| Gpx4 | 9.03E-05 | 0.323299688 | 0.766 | 0.705 | 0.89720798 | 9 | 1.086525 |
| Arhgdia | 9.10E-05 | 0.318628507 | 0.859 | 0.714 | 0.90450986 | 9 | 1.203081 |
| Ccdc69 | 9.41E-05 | 0.269095134 | 0.281 | 0.107 | 0.935787347 | 9 | 2.626168 |
| Atp5e | 9.56E-05 | 0.19075442 | 0.953 | 0.945 | 0.950337248 | 9 | 1.008466 |
| Vars | 9.74E-05 | 0.131496334 | 0.391 | 0.238 | 0.968506313 | 9 | 1.642857 |
| BC004004 | 9.91E-05 | 0.190237702 | 0.297 | 0.133 | 0.985276554 | 9 | 2.233083 |
| Adprh | 1.00E-04 | 0.256685503 | 0.422 | 0.205 | 0.993774894 | 9 | 2.058537 |
| Ucp2 | 0.0001001 | 0.333651753 | 0.891 | 0.769 | 0.99499214 | 9 | 1.158648 |
| Ufm1 | 0.000100561 | 0.174246633 | 0.469 | 0.251 | 0.999573465 | 9 | 1.868526 |
| Arpc1a | 0.000100756 | 0.134702547 | 0.422 | 0.234 | 1 | 9 | 1.803419 |
| Arrdc1 | 0.000101266 | 0.254939138 | 0.438 | 0.204 | 1 | 9 | 2.147059 |
| Ywhab | 0.000101585 | 0.346031146 | 0.766 | 0.527 | 1 | 9 | 1.45351 |
| Bax | 0.000102324 | 0.322266076 | 0.703 | 0.533 | 1 | 9 | 1.318949 |
| Tor1aip1 | 0.000102776 | 0.328499713 | 0.547 | 0.281 | 1 | 9 | 1.946619 |
| Cul1 | 0.000103632 | 0.336000262 | 0.406 | 0.208 | 1 | 9 | 1.951923 |
| Stk24 | 0.000104868 | 0.307828752 | 0.641 | 0.395 | 1 | 9 | 1.622785 |
| Sh2d2a | 0.000106041 | 0.343478119 | 0.484 | 0.256 | 1 | 9 | 1.890625 |
| Sec22b | 0.000107796 | 0.166342535 | 0.359 | 0.212 | 1 | 9 | 1.693396 |
| Sdhaf2 | 0.000111967 | 0.248919836 | 0.344 | 0.213 | 1 | 9 | 1.615023 |
| Msl1 | 0.000112225 | 0.186118687 | 0.391 | 0.204 | 1 | 9 | 1.916667 |
| Tpgs1 | 0.000113699 | 0.032895262 | 0.281 | 0.193 | 1 | 9 | 1.455959 |
| Man2b1 | 0.000114496 | 0.261862705 | 0.328 | 0.177 | 1 | 9 | 1.853107 |
| Mat2b | 0.00011499 | 0.277301711 | 0.797 | 0.533 | 1 | 9 | 1.49531 |
| Rab18 | 0.000116164 | 0.262814096 | 0.484 | 0.247 | 1 | 9 | 1.959514 |
| Ube2a | 0.00011681 | 0.252941295 | 0.516 | 0.297 | 1 | 9 | 1.737374 |
| Bbip1 | 0.000119105 | 0.309393608 | 0.5 | 0.247 | 1 | 9 | 2.024291 |
| Apoa1bp | 0.00011935 | 0.266037417 | 0.359 | 0.164 | 1 | 9 | 2.189024 |
| Txndc12 | 0.000120198 | 0.293723182 | 0.328 | 0.124 | 1 | 9 | 2.645161 |
| Mrpl34 | 0.000121096 | 0.01422162 | 0.453 | 0.327 | 1 | 9 | 1.385321 |
| Hspa5 | 0.000121677 | 0.29622126 | 0.812 | 0.67 | 1 | 9 | 1.21194 |
| Rab10 | 0.000122789 | 0.178005512 | 0.578 | 0.405 | 1 | 9 | 1.42716 |
| Gm8797 | 0.000124414 | 0.100967819 | 0.375 | 0.251 | 1 | 9 | 1.494024 |
| Tipin | 0.000126069 | 0.284907525 | 0.297 | 0.146 | 1 | 9 | 2.034247 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Lpxn | 0.000127716 | 0.215594579 | 0.344 | 0.196 | 1 | 9 | 1.755102 |
| Ndufa4 | 0.000130014 | 0.233297167 | 1 | 0.919 | 1 | 9 | 1.088139 |
| Ppp1r12a | 0.000133662 | 0.22635412 | 0.531 | 0.379 | 1 | 9 | 1.401055 |
| Cnot7 | 0.000134903 | 0.178126475 | 0.344 | 0.188 | 1 | 9 | 1.829787 |
| Pak2 | 0.000135118 | 0.337807257 | 0.672 | 0.516 | 1 | 9 | 1.302326 |
| Top1 | 0.000135642 | 0.300367829 | 0.672 | 0.441 | 1 | 9 | 1.52381 |
| Samm50 | 0.000139248 | 0.24933692 | 0.578 | 0.349 | 1 | 9 | 1.65616 |
| Tap2 | 0.000139551 | 0.255754593 | 0.594 | 0.485 | 1 | 9 | 1.224742 |
| Snx5 | 0.000139701 | 0.361669074 | 0.578 | 0.37 | 1 | 9 | 1.562162 |
| Acly | 0.000140644 | 0.245221504 | 0.297 | 0.142 | 1 | 9 | 2.091549 |
| Upf3b | 0.000142008 | 0.149487869 | 0.422 | 0.229 | 1 | 9 | 1.842795 |
| Atad2 | 0.000144305 | 0.063393843 | 0.281 | 0.157 | 1 | 9 | 1.789809 |
| Cyb561d2 | 0.000146423 | 0.304783854 | 0.359 | 0.139 | 1 | 9 | 2.582734 |
| Atp5d | 0.000148743 | 0.300904688 | 0.922 | 0.769 | 1 | 9 | 1.19896 |
| Anxa7 | 0.000149695 | 0.225201583 | 0.344 | 0.163 | 1 | 9 | 2.110429 |
| Tbpl1 | 0.0001502 | 0.202359943 | 0.359 | 0.16 | 1 | 9 | 2.24375 |
| Ndufv3 | 0.000151099 | 0.302293146 | 0.891 | 0.684 | 1 | 9 | 1.302632 |
| Atp6v0d1 | 0.000152857 | 0.295319036 | 0.375 | 0.168 | 1 | 9 | 2.232143 |
| Lactb | 0.000152947 | 0.268418506 | 0.344 | 0.149 | 1 | 9 | 2.308725 |
| Hist1h1e | 0.000153031 | 0.351140821 | 0.344 | 0.145 | 1 | 9 | 2.372414 |
| Xlr4a | 0.000154529 | 0.091589183 | 0.266 | 0.134 | 1 | 9 | 1.985075 |
| Rtfdc1 | 0.000154815 | 0.257311911 | 0.578 | 0.315 | 1 | 9 | 1.834921 |
| Bsg | 0.000156144 | 0.280173579 | 0.719 | 0.498 | 1 | 9 | 1.443775 |
| Ndfip2 | 0.000157407 | 0.21930039 | 0.453 | 0.264 | 1 | 9 | 1.715909 |
| Dbi | 0.000158751 | 0.34916249 | 0.625 | 0.396 | 1 | 9 | 1.578283 |
| Ube2r2 | 0.000159558 | 0.212691272 | 0.469 | 0.243 | 1 | 9 | 1.930041 |
| Ctsz | 0.000161042 | 0.281149269 | 0.438 | 0.203 | 1 | 9 | 2.157635 |
| Ppp4r2 | 0.000161415 | 0.238454505 | 0.453 | 0.239 | 1 | 9 | 1.895397 |
| Snw1 | 0.000162118 | 0.203914259 | 0.578 | 0.472 | 1 | 9 | 1.224576 |
| Gatad1 | 0.000162558 | 0.218604349 | 0.297 | 0.113 | 1 | 9 | 2.628319 |
| Gabarap | 0.000163587 | 0.308885538 | 0.891 | 0.692 | 1 | 9 | 1.287572 |
| Arhgdib | 0.000164092 | 0.242655551 | 1 | 0.998 | 1 | 9 | 1.002004 |
| Kcnab2 | 0.000165777 | 0.189131183 | 0.375 | 0.275 | 1 | 9 | 1.363636 |
| 2700029M09Rik | 0.000166644 | 0.304321002 | 0.438 | 0.238 | 1 | 9 | 1.840336 |
| Dap | 0.000169743 | 0.325003585 | 0.469 | 0.241 | 1 | 9 | 1.946058 |
| Psma2 | 0.000171066 | 0.298196729 | 0.922 | 0.798 | 1 | 9 | 1.155388 |
| Phf11b | 0.000171983 | 0.254233434 | 0.469 | 0.243 | 1 | 9 | 1.930041 |
| Nfyb | 0.000174497 | 0.21681803 | 0.344 | 0.178 | 1 | 9 | 1.932584 |
| Bdp1 | 0.000174791 | 0.066397218 | 0.328 | 0.208 | 1 | 9 | 1.576923 |
| Tmem173 | 0.000176892 | 0.293228278 | 0.469 | 0.225 | 1 | 9 | 2.084444 |
| Rcn2 | 0.000178588 | 0.166993299 | 0.359 | 0.198 | 1 | 9 | 1.813131 |
| Mdh2 | 0.000182031 | 0.30680065 | 0.844 | 0.704 | 1 | 9 | 1.198864 |
| Tcf3 | 0.000186034 | 0.176271649 | 0.281 | 0.233 | 1 | 9 | 1.206009 |
| Dock10 | 0.00019041 | 0.272087348 | 0.594 | 0.421 | 1 | 9 | 1.410926 |
| Lyp1a2 | 0.000191882 | 0.258885437 | 0.438 | 0.238 | 1 | 9 | 1.840336 |
| Srrm1 | 0.00019363 | 0.315704572 | 0.797 | 0.574 | 1 | 9 | 1.388502 |
| Sh3glb2 | 0.000201048 | 0.211354493 | 0.297 | 0.161 | 1 | 9 | 1.84472 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Tmem126a | 0.000203805 | 0.290831473 | 0.406 | 0.178 | 1 | 9 | 2.280899 |
| Mier1 | 0.000204675 | 0.322553917 | 0.656 | 0.465 | 1 | 9 | 1.410753 |
| Dap3 | 0.000205947 | 0.177131125 | 0.469 | 0.273 | 1 | 9 | 1.717949 |
| Rbms1 | 0.000206472 | 0.325363897 | 0.578 | 0.356 | 1 | 9 | 1.623596 |
| Zfand6 | 0.0002102 | 0.278222817 | 0.656 | 0.485 | 1 | 9 | 1.352577 |
| Actr2 | 0.000211589 | 0.279185192 | 0.766 | 0.58 | 1 | 9 | 1.32069 |
| Riok3 | 0.000214444 | 0.175869643 | 0.391 | 0.202 | 1 | 9 | 1.935644 |
| Rnpepl1 | 0.000216965 | 0.089576125 | 0.359 | 0.225 | 1 | 9 | 1.595556 |
| Cited2 | 0.000217719 | 0.297512653 | 0.312 | 0.135 | 1 | 9 | 2.311111 |
| Tmbim4 | 0.000217883 | 0.218999363 | 0.359 | 0.156 | 1 | 9 | 2.301282 |
| Nudt14 | 0.000219147 | 0.147086403 | 0.266 | 0.12 | 1 | 9 | 2.216667 |
| Bmyc | 0.000220227 | 0.161754338 | 0.328 | 0.228 | 1 | 9 | 1.438596 |
| Uqcrc1 | 0.000223417 | 0.313308661 | 0.719 | 0.492 | 1 | 9 | 1.461382 |
| Rab14 | 0.000225985 | 0.303531023 | 0.641 | 0.464 | 1 | 9 | 1.381466 |
| Cand1 | 0.000229192 | 0.137842545 | 0.266 | 0.119 | 1 | 9 | 2.235294 |
| Serf2 | 0.00022992 | 0.247887796 | 1 | 0.991 | 1 | 9 | 1.009082 |
| Sertad3 | 0.000235426 | 0.274475335 | 0.328 | 0.123 | 1 | 9 | 2.666667 |
| Mgat1 | 0.000237662 | 0.21239548 | 0.328 | 0.134 | 1 | 9 | 2.447761 |
| Phgdh | 0.000245573 | 0.345191803 | 0.531 | 0.331 | 1 | 9 | 1.60423 |
| Copa | 0.000252467 | 0.067508213 | 0.359 | 0.219 | 1 | 9 | 1.639269 |
| Rpp25l | 0.000253047 | 0.085977269 | 0.281 | 0.17 | 1 | 9 | 1.652941 |
| Cetn2 | 0.00025612 | 0.282100518 | 0.547 | 0.352 | 1 | 9 | 1.553977 |
| Sin3b | 0.000256167 | 0.279280787 | 0.625 | 0.457 | 1 | 9 | 1.367615 |
| Rala | 0.000256451 | 0.256922725 | 0.547 | 0.299 | 1 | 9 | 1.829431 |
| Cyth2 | 0.000258762 | 0.136828049 | 0.281 | 0.16 | 1 | 9 | 1.75625 |
| Vps26a | 0.000261326 | 0.210017698 | 0.328 | 0.153 | 1 | 9 | 2.143791 |
| Pitpna | 0.000263376 | 0.27422003 | 0.719 | 0.448 | 1 | 9 | 1.604911 |
| Anp32a | 0.000264329 | 0.296829452 | 0.906 | 0.86 | 1 | 9 | 1.053488 |
| Thoc7 | 0.000264453 | 0.159276362 | 0.594 | 0.381 | 1 | 9 | 1.559055 |
| Dnajb11 | 0.000272655 | 0.296165042 | 0.594 | 0.334 | 1 | 9 | 1.778443 |
| Acadl | 0.000277168 | 0.269199342 | 0.328 | 0.137 | 1 | 9 | 2.394161 |
| BC029214 | 0.000278763 | 0.213797388 | 0.375 | 0.202 | 1 | 9 | 1.856436 |
| Msrb1 | 0.000281908 | 0.277685073 | 0.406 | 0.219 | 1 | 9 | 1.853881 |
| Txn14a | 0.000291372 | 0.332053185 | 0.562 | 0.303 | 1 | 9 | 1.854785 |
| Tnpo3 | 0.00029235 | 0.092733419 | 0.328 | 0.21 | 1 | 9 | 1.561905 |
| Dcaf11 | 0.000294136 | 0.160877645 | 0.375 | 0.212 | 1 | 9 | 1.768868 |
| Lrrfip1 | 0.000295594 | 0.335796229 | 0.75 | 0.563 | 1 | 9 | 1.332149 |
| Uba1 | 0.000299086 | 0.27138668 | 0.453 | 0.248 | 1 | 9 | 1.826613 |
| Dnajb6 | 0.000301664 | 0.203658901 | 0.641 | 0.472 | 1 | 9 | 1.358051 |
| Arid5b | 0.000303073 | 0.335438708 | 0.297 | 0.182 | 1 | 9 | 1.631868 |
| Rps6kb1 | 0.000306278 | 0.138789527 | 0.406 | 0.26 | 1 | 9 | 1.561538 |
| Lsm8 | 0.000307599 | 0.138893716 | 0.5 | 0.348 | 1 | 9 | 1.436782 |
| Srrt | 0.000312334 | 0.166910774 | 0.453 | 0.266 | 1 | 9 | 1.703008 |
| Upf3a | 0.000314641 | 0.186538831 | 0.312 | 0.133 | 1 | 9 | 2.345865 |
| Pold4 | 0.000319691 | 0.266167408 | 0.406 | 0.294 | 1 | 9 | 1.380952 |
| Ncoa3 | 0.000321717 | 0.113202883 | 0.328 | 0.175 | 1 | 9 | 1.874286 |
| Cops6 | 0.000324565 | 0.201544879 | 0.609 | 0.467 | 1 | 9 | 1.304069 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Csnk1g2 | 0.000331224 | 0.149383659 | 0.312 | 0.179 | 1 | 9 | 1.743017 |
| Atp5k | 0.000332005 | 0.293007176 | 0.875 | 0.695 | 1 | 9 | 1.258993 |
| Mrpl49 | 0.000333466 | 0.108315156 | 0.281 | 0.149 | 1 | 9 | 1.885906 |
| Polr2a | 0.0003351 | 0.074964881 | 0.281 | 0.181 | 1 | 9 | 1.552486 |
| Smarcc1 | 0.000338735 | 0.260432409 | 0.469 | 0.246 | 1 | 9 | 1.906504 |
| Suds3 | 0.000340296 | 0.13213748 | 0.375 | 0.246 | 1 | 9 | 1.52439 |
| Triap1 | 0.000341328 | 0.027458143 | 0.281 | 0.187 | 1 | 9 | 1.502674 |
| Elof1 | 0.000344059 | 0.158088103 | 0.359 | 0.216 | 1 | 9 | 1.662037 |
| Mkrn1 | 0.000345044 | 0.302496566 | 0.672 | 0.413 | 1 | 9 | 1.627119 |
| Pcnp | 0.000346867 | 0.324595774 | 0.5 | 0.295 | 1 | 9 | 1.694915 |
| Srsf9 | 0.00034824 | 0.149548553 | 0.297 | 0.176 | 1 | 9 | 1.6875 |
| Hdhd2 | 0.00034839 | 0.173494346 | 0.266 | 0.117 | 1 | 9 | 2.273504 |
| Cd74 | 0.000351714 | 0.280642756 | 0.922 | 0.818 | 1 | 9 | 1.127139 |
| Il10rb | 0.000356123 | 0.159101132 | 0.312 | 0.235 | 1 | 9 | 1.32766 |
| Ppp2ca | 0.000356367 | 0.232844842 | 0.484 | 0.299 | 1 | 9 | 1.618729 |
| Rdh14 | 0.000362373 | 0.253594102 | 0.312 | 0.124 | 1 | 9 | 2.516129 |
| Pten | 0.000363325 | 0.120523296 | 0.297 | 0.174 | 1 | 9 | 1.706897 |
| Rnft1 | 0.00036407 | 0.246251666 | 0.281 | 0.129 | 1 | 9 | 2.178295 |
| Fam49b | 0.000364323 | 0.284031088 | 0.812 | 0.642 | 1 | 9 | 1.264798 |
| Gpatch11 | 0.000364711 | 0.212530524 | 0.406 | 0.23 | 1 | 9 | 1.765217 |
| Nubp2 | 0.000371557 | 0.166550901 | 0.375 | 0.198 | 1 | 9 | 1.893939 |
| Emc8 | 0.000382151 | 0.181843531 | 0.344 | 0.163 | 1 | 9 | 2.110429 |
| Fam134b | 0.000387766 | 0.271652121 | 0.5 | 0.274 | 1 | 9 | 1.824818 |
| Mrpl14 | 0.000390329 | 0.209984736 | 0.562 | 0.325 | 1 | 9 | 1.729231 |
| Gipc1 | 0.000391192 | 0.292177736 | 0.328 | 0.142 | 1 | 9 | 2.309859 |
| Cdipt | 0.000391483 | 0.219406362 | 0.625 | 0.393 | 1 | 9 | 1.590331 |
| Birc3 | 0.000392167 | 0.127534123 | 0.297 | 0.158 | 1 | 9 | 1.879747 |
| Cyld | 0.000394534 | 0.259237119 | 0.453 | 0.282 | 1 | 9 | 1.606383 |
| Setd3 | 0.000401806 | 0.111403108 | 0.312 | 0.182 | 1 | 9 | 1.714286 |
| Atp6v0e | 0.000402007 | 0.268510677 | 0.875 | 0.778 | 1 | 9 | 1.124679 |
| Tram1 | 0.000404426 | 0.310840656 | 0.703 | 0.467 | 1 | 9 | 1.505353 |
| Erp44 | 0.000405403 | 0.223719953 | 0.5 | 0.275 | 1 | 9 | 1.818182 |
| Ei24 | 0.000423522 | 0.187573251 | 0.312 | 0.143 | 1 | 9 | 2.181818 |
| Pts | 0.000425797 | 0.187921849 | 0.328 | 0.179 | 1 | 9 | 1.832402 |
| Dph3 | 0.000433681 | 0.236425691 | 0.484 | 0.263 | 1 | 9 | 1.840304 |
| Mrpl9 | 0.000435443 | 0.150161908 | 0.281 | 0.195 | 1 | 9 | 1.441026 |
| Gm10093 | 0.000436583 | 0.302618858 | 0.531 | 0.323 | 1 | 9 | 1.643963 |
| Zap70 | 0.000441269 | 0.301725591 | 0.547 | 0.372 | 1 | 9 | 1.47043 |
| H2-Ab1 | 0.000443165 | 0.275058666 | 0.703 | 0.566 | 1 | 9 | 1.242049 |
| H3f3a | 0.000446946 | 0.253662075 | 1 | 0.967 | 1 | 9 | 1.034126 |
| Sec31a | 0.000449895 | 0.168717997 | 0.359 | 0.182 | 1 | 9 | 1.972527 |
| Faim | 0.000453441 | 0.206046188 | 0.453 | 0.291 | 1 | 9 | 1.556701 |
| 2700060E02Rik | 0.000456085 | 0.252020845 | 0.859 | 0.707 | 1 | 9 | 1.214993 |
| 1810037I17Rik | 0.00047066 | 0.284110707 | 0.797 | 0.579 | 1 | 9 | 1.376511 |
| Ecm1 | 0.000473611 | 0.333246998 | 0.266 | 0.085 | 1 | 9 | 3.129412 |
| Pmm2 | 0.000475254 | 0.22737129 | 0.469 | 0.243 | 1 | 9 | 1.930041 |
| Wdr83os | 0.000480753 | 0.276754582 | 0.656 | 0.394 | 1 | 9 | 1.664975 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Akap13 | 0.000483254 | 0.279804941 | 0.828 | 0.68 | 1 | 9 | 1.217647 |
| Zc3hav1 | 0.000484847 | 0.241942337 | 0.641 | 0.446 | 1 | 9 | 1.43722 |
| Timm17a | 0.000487577 | 0.084927948 | 0.5 | 0.344 | 1 | 9 | 1.453488 |
| Xbp1 | 0.000488854 | 0.296112391 | 0.375 | 0.156 | 1 | 9 | 2.403846 |
| Tmem160 | 0.000494938 | 0.300224296 | 0.688 | 0.537 | 1 | 9 | 1.281192 |
| Hmox2 | 0.000497274 | 0.080776207 | 0.422 | 0.286 | 1 | 9 | 1.475524 |
| Vta1 | 0.000506141 | 0.117196402 | 0.281 | 0.18 | 1 | 9 | 1.561111 |
| Vsir | 0.000508604 | 0.2777359 | 0.625 | 0.422 | 1 | 9 | 1.481043 |
| Sumo3 | 0.000509613 | 0.169469842 | 0.406 | 0.245 | 1 | 9 | 1.657143 |
| Ets1 | 0.000515305 | 0.266310422 | 0.969 | 0.84 | 1 | 9 | 1.153571 |
| Flii | 0.000516272 | 0.269472146 | 0.391 | 0.173 | 1 | 9 | 2.260116 |
| Letm1 | 0.000518444 | 0.180762408 | 0.375 | 0.191 | 1 | 9 | 1.963351 |
| Cd3e | 0.000518789 | 0.287838015 | 0.938 | 0.845 | 1 | 9 | 1.110059 |
| Btf3l4 | 0.000523905 | 0.119250215 | 0.438 | 0.261 | 1 | 9 | 1.678161 |
| Cep250 | 0.00052827 | 0.25669234 | 0.281 | 0.121 | 1 | 9 | 2.322314 |
| Sdcbp | 0.000538037 | 0.246767045 | 0.609 | 0.452 | 1 | 9 | 1.347345 |
| Dnajc24 | 0.000538369 | 0.266165905 | 0.312 | 0.116 | 1 | 9 | 2.689655 |
| Mrps11 | 0.000539565 | 0.1366865 | 0.266 | 0.159 | 1 | 9 | 1.672956 |
| Psemb1 | 0.000539922 | 0.243562411 | 0.969 | 0.895 | 1 | 9 | 1.082682 |
| Erbp2ip | 0.000542303 | 0.192048354 | 0.438 | 0.235 | 1 | 9 | 1.86383 |
| Surf4 | 0.000542799 | 0.244047447 | 0.344 | 0.166 | 1 | 9 | 2.072289 |
| Fam107b | 0.000551299 | 0.219058772 | 0.594 | 0.386 | 1 | 9 | 1.53886 |
| Secisbp2l | 0.000551961 | 0.262232999 | 0.344 | 0.14 | 1 | 9 | 2.457143 |
| Phyh | 0.000558279 | 0.184690924 | 0.469 | 0.265 | 1 | 9 | 1.769811 |
| Phtf1 | 0.000561607 | 0.152500779 | 0.266 | 0.125 | 1 | 9 | 2.128 |
| Arf1 | 0.000565831 | 0.282355141 | 0.859 | 0.712 | 1 | 9 | 1.206461 |
| Sgms1 | 0.000567905 | 0.125708687 | 0.281 | 0.136 | 1 | 9 | 2.066176 |
| Cuedc2 | 0.000575073 | 0.158869493 | 0.312 | 0.158 | 1 | 9 | 1.974684 |
| Hk1 | 0.000577544 | 0.081657715 | 0.312 | 0.185 | 1 | 9 | 1.686486 |
| Mzt1 | 0.000582375 | 0.132064063 | 0.266 | 0.128 | 1 | 9 | 2.078125 |
| Urod | 0.000589157 | 0.080219761 | 0.297 | 0.184 | 1 | 9 | 1.61413 |
| Casp6 | 0.000590769 | 0.245371564 | 0.328 | 0.135 | 1 | 9 | 2.42963 |
| Cdc34 | 0.00059146 | 0.1040839 | 0.297 | 0.161 | 1 | 9 | 1.84472 |
| Ddit4 | 0.000595675 | 0.28623247 | 0.484 | 0.36 | 1 | 9 | 1.344444 |
| Stt3a | 0.000596837 | 0.165665578 | 0.344 | 0.191 | 1 | 9 | 1.801047 |
| Cst7 | 0.000599904 | 0.277041272 | 0.391 | 0.184 | 1 | 9 | 2.125 |
| Tln1 | 0.000601487 | 0.284134179 | 0.812 | 0.683 | 1 | 9 | 1.188873 |
| Psmc6 | 0.000601895 | 0.142628614 | 0.547 | 0.341 | 1 | 9 | 1.604106 |
| Commd4 | 0.000609523 | 0.278567608 | 0.516 | 0.323 | 1 | 9 | 1.597523 |
| Rab37 | 0.000611319 | 0.224458928 | 0.375 | 0.192 | 1 | 9 | 1.953125 |
| B230219D22Rik | 0.000614447 | 0.105203821 | 0.484 | 0.309 | 1 | 9 | 1.566343 |
| Tm9sf2 | 0.000625479 | 0.122196612 | 0.297 | 0.189 | 1 | 9 | 1.571429 |
| Sec61b | 0.000632064 | 0.26051241 | 0.906 | 0.842 | 1 | 9 | 1.07601 |
| Rraga | 0.000640489 | 0.190042429 | 0.406 | 0.223 | 1 | 9 | 1.820628 |
| Gppb1 | 0.00064357 | 0.118154145 | 0.641 | 0.437 | 1 | 9 | 1.466819 |
| Gde1 | 0.000644986 | 0.214472413 | 0.281 | 0.106 | 1 | 9 | 2.650943 |
| Ndufa8 | 0.000654634 | 0.274772418 | 0.75 | 0.554 | 1 | 9 | 1.353791 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Asna1 | 0.000658037 | 0.174072064 | 0.344 | 0.199 | 1 | 9 | 1.728643 |
| Rwdd1 | 0.00066105 | 0.284848757 | 0.703 | 0.495 | 1 | 9 | 1.420202 |
| Ube2d2a | 0.000672194 | 0.267218785 | 0.812 | 0.693 | 1 | 9 | 1.171717 |
| Aip | 0.000680076 | 0.286645507 | 0.594 | 0.356 | 1 | 9 | 1.668539 |
| Clcn3 | 0.000680153 | 0.096429948 | 0.281 | 0.181 | 1 | 9 | 1.552486 |
| Pafah1b2 | 0.000683173 | 0.115121911 | 0.297 | 0.156 | 1 | 9 | 1.903846 |
| Nsmce1 | 0.000695828 | 0.114722498 | 0.609 | 0.419 | 1 | 9 | 1.453461 |
| Tiprl | 0.000695904 | 0.153385033 | 0.406 | 0.254 | 1 | 9 | 1.598425 |
| A630023P12Rik | 0.000696735 | 0.246531203 | 0.281 | 0.104 | 1 | 9 | 2.701923 |
| Mrps35 | 0.000698484 | 0.088114002 | 0.344 | 0.205 | 1 | 9 | 1.678049 |
| Aida | 0.000701192 | 0.116414352 | 0.281 | 0.151 | 1 | 9 | 1.860927 |
| Ube2m | 0.000701265 | 0.154718535 | 0.297 | 0.179 | 1 | 9 | 1.659218 |
| Iah1 | 0.000708305 | 0.217912704 | 0.281 | 0.121 | 1 | 9 | 2.322314 |
| Rock1 | 0.000713304 | 0.194037015 | 0.672 | 0.45 | 1 | 9 | 1.493333 |
| Picalm | 0.000723865 | 0.283355012 | 0.359 | 0.154 | 1 | 9 | 2.331169 |
| Sh2d1a | 0.000738094 | 0.196496005 | 0.484 | 0.404 | 1 | 9 | 1.19802 |
| Ndufab1 | 0.000741142 | 0.174456246 | 0.672 | 0.449 | 1 | 9 | 1.496659 |
| Mrpl43 | 0.000758665 | 0.197147287 | 0.531 | 0.344 | 1 | 9 | 1.543605 |
| Micu2 | 0.000762982 | 0.198196742 | 0.297 | 0.138 | 1 | 9 | 2.152174 |
| Ubxn4 | 0.000765544 | 0.256765736 | 0.641 | 0.433 | 1 | 9 | 1.48037 |
| Herpud1 | 0.000767686 | 0.223505409 | 0.453 | 0.261 | 1 | 9 | 1.735632 |
| 05-Mar | 0.000769301 | 0.169977024 | 0.312 | 0.219 | 1 | 9 | 1.424658 |
| Ssr1 | 0.00076939 | 0.29087507 | 0.469 | 0.234 | 1 | 9 | 2.004274 |
| Zdhhc18 | 0.000769863 | 0.209080514 | 0.344 | 0.185 | 1 | 9 | 1.859459 |
| Cmc1 | 0.000770801 | 0.082001661 | 0.453 | 0.307 | 1 | 9 | 1.47557 |
| Arf6 | 0.00077101 | 0.3160594 | 0.734 | 0.52 | 1 | 9 | 1.411538 |
| Pik3c2a | 0.000773385 | 0.232103924 | 0.281 | 0.115 | 1 | 9 | 2.443478 |
| Zfp292 | 0.000773706 | 0.233599436 | 0.609 | 0.423 | 1 | 9 | 1.439716 |
| Dera | 0.000774372 | 0.260846582 | 0.391 | 0.193 | 1 | 9 | 2.025907 |
| Cr1l | 0.000776962 | 0.244281795 | 0.531 | 0.301 | 1 | 9 | 1.76412 |
| Gins4 | 0.000786989 | 0.033795062 | 0.266 | 0.172 | 1 | 9 | 1.546512 |
| Cbfb | 0.000793524 | 0.254208884 | 0.438 | 0.233 | 1 | 9 | 1.879828 |
| Srsf4 | 0.00083625 | 0.151138677 | 0.359 | 0.205 | 1 | 9 | 1.75122 |
| Ncap2 | 0.000839736 | 0.178086235 | 0.391 | 0.229 | 1 | 9 | 1.707424 |
| Def6 | 0.000840402 | 0.275728789 | 0.641 | 0.389 | 1 | 9 | 1.647815 |
| Cd27 | 0.000851733 | 0.285290936 | 0.875 | 0.836 | 1 | 9 | 1.046651 |
| Oaz2 | 0.000855315 | 0.274786811 | 0.312 | 0.124 | 1 | 9 | 2.516129 |
| Cd3g | 0.000856107 | 0.250290139 | 1 | 0.989 | 1 | 9 | 1.011122 |
| Zfp512 | 0.000859937 | 0.187788273 | 0.359 | 0.245 | 1 | 9 | 1.465306 |
| Stk17b | 0.000860749 | 0.268060923 | 0.891 | 0.708 | 1 | 9 | 1.258475 |
| Clp1 | 0.000869175 | 0.212695402 | 0.297 | 0.127 | 1 | 9 | 2.338583 |
| Fgfr1op2 | 0.000877974 | 0.208706724 | 0.688 | 0.449 | 1 | 9 | 1.532294 |
| Cd47 | 0.000898354 | 0.276518088 | 0.891 | 0.855 | 1 | 9 | 1.042105 |
| Dut | 0.000902797 | 0.319599468 | 0.469 | 0.299 | 1 | 9 | 1.568562 |
| Mcm4 | 0.000916896 | 0.290731023 | 0.344 | 0.16 | 1 | 9 | 2.15 |
| Gng5 | 0.000929402 | 0.202160523 | 0.984 | 0.858 | 1 | 9 | 1.146853 |
| Zfp706 | 0.000931572 | 0.274035762 | 0.812 | 0.688 | 1 | 9 | 1.180233 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Becn1 | 0.000934652 | 0.267531404 | 0.422 | 0.241 | 1 | 9 | 1.751037 |
| Emc3 | 0.000943146 | 0.225257901 | 0.391 | 0.253 | 1 | 9 | 1.545455 |
| Rab35 | 0.000944489 | 0.155611215 | 0.391 | 0.254 | 1 | 9 | 1.53937 |
| Nubp1 | 0.000946375 | 0.152318883 | 0.531 | 0.327 | 1 | 9 | 1.623853 |
| St13 | 0.000949059 | 0.268011241 | 0.516 | 0.422 | 1 | 9 | 1.222749 |
| Dcun1d5 | 0.000962337 | 0.284786542 | 0.531 | 0.389 | 1 | 9 | 1.365039 |
| Hectd1 | 0.000963234 | 0.131647863 | 0.531 | 0.363 | 1 | 9 | 1.46281 |
| Stx7 | 0.000966844 | 0.24354819 | 0.266 | 0.092 | 1 | 9 | 2.891304 |
| Lcp2 | 0.00097183 | 0.334327 | 0.531 | 0.315 | 1 | 9 | 1.685714 |
| Mcl1 | 0.000973691 | 0.282357498 | 0.516 | 0.37 | 1 | 9 | 1.394595 |
| Cd6 | 0.000976163 | 0.260550937 | 0.625 | 0.436 | 1 | 9 | 1.433486 |
| 0610010K14Rik | 0.000992768 | 0.144801886 | 0.469 | 0.28 | 1 | 9 | 1.675 |
| Eif2b2 | 0.000995221 | 0.128791854 | 0.328 | 0.183 | 1 | 9 | 1.79235 |
| Nelfb | 0.001003751 | 0.01059336 | 0.344 | 0.248 | 1 | 9 | 1.387097 |
| Tsr3 | 0.001016825 | 0.188405449 | 0.328 | 0.181 | 1 | 9 | 1.812155 |
| Cndp2 | 0.001025122 | 0.17093009 | 0.344 | 0.17 | 1 | 9 | 2.023529 |
| Sqstm1 | 0.001045253 | 0.23180943 | 0.438 | 0.266 | 1 | 9 | 1.646617 |
| Surf1 | 0.001046302 | 0.068288766 | 0.328 | 0.216 | 1 | 9 | 1.518519 |
| Tlk1 | 0.001049682 | 0.067461355 | 0.344 | 0.222 | 1 | 9 | 1.54955 |
| Gigyf2 | 0.001052014 | 0.167799522 | 0.375 | 0.194 | 1 | 9 | 1.93299 |
| Elp5 | 0.001060828 | 0.144866826 | 0.281 | 0.129 | 1 | 9 | 2.178295 |
| Rgs14 | 0.001069392 | 0.263381276 | 0.312 | 0.154 | 1 | 9 | 2.025974 |
| Pbrm1 | 0.001099195 | 0.210048177 | 0.609 | 0.38 | 1 | 9 | 1.602632 |
| Dld | 0.001103099 | 0.139673141 | 0.297 | 0.147 | 1 | 9 | 2.020408 |
| Ctdspl2 | 0.001105833 | 0.038305085 | 0.281 | 0.2 | 1 | 9 | 1.405 |
| Paip2 | 0.001108601 | 0.060675461 | 0.688 | 0.645 | 1 | 9 | 1.066667 |
| Slain2 | 0.001122918 | 0.175787534 | 0.281 | 0.164 | 1 | 9 | 1.713415 |
| Gnai3 | 0.001123137 | 0.279021411 | 0.469 | 0.292 | 1 | 9 | 1.606164 |
| Ube2q1 | 0.001126959 | 0.276079963 | 0.375 | 0.176 | 1 | 9 | 2.130682 |
| Gmfb | 0.001127224 | 0.194812263 | 0.359 | 0.179 | 1 | 9 | 2.005587 |
| Hn1 | 0.001146596 | 0.266153879 | 0.891 | 0.76 | 1 | 9 | 1.172368 |
| Spn | 0.00114797 | 0.260662309 | 0.609 | 0.434 | 1 | 9 | 1.403226 |
| Rexo1 | 0.001148446 | 0.029241891 | 0.391 | 0.279 | 1 | 9 | 1.401434 |
| Rsrc2 | 0.001160183 | 0.262150256 | 0.672 | 0.47 | 1 | 9 | 1.429787 |
| Bet1l | 0.001180928 | 0.093564886 | 0.297 | 0.209 | 1 | 9 | 1.421053 |
| Diaph1 | 0.001188326 | 0.323294392 | 0.594 | 0.391 | 1 | 9 | 1.519182 |
| Lgals9 | 0.001201507 | 0.100596881 | 0.516 | 0.374 | 1 | 9 | 1.379679 |
| Pih1d1 | 0.001208723 | 0.135286902 | 0.328 | 0.17 | 1 | 9 | 1.929412 |
| Myo1g | 0.001210332 | 0.278921593 | 0.484 | 0.268 | 1 | 9 | 1.80597 |
| Idh3b | 0.00122171 | 0.17282312 | 0.5 | 0.337 | 1 | 9 | 1.48368 |
| Rbm42 | 0.001238302 | 0.114832601 | 0.422 | 0.289 | 1 | 9 | 1.460208 |
| Hadh | 0.001246846 | 0.231159101 | 0.406 | 0.206 | 1 | 9 | 1.970874 |
| Chic2 | 0.001250345 | 0.00332024 | 0.531 | 0.408 | 1 | 9 | 1.301471 |
| Ndufc2 | 0.00125985 | 0.19339921 | 0.75 | 0.527 | 1 | 9 | 1.42315 |
| Rbm45 | 0.001264583 | 0.26767212 | 0.312 | 0.133 | 1 | 9 | 2.345865 |
| 02-Mar | 0.001265233 | 0.172624215 | 0.516 | 0.338 | 1 | 9 | 1.526627 |
| Cfdp1 | 0.001278155 | 0.261873278 | 0.469 | 0.32 | 1 | 9 | 1.465625 |

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|---------------|-------------|-------------|-------|-------|---|---|----------|
| Cryzl1 | 0.001291289 | 0.201140305 | 0.266 | 0.11 | 1 | 9 | 2.418182 |
| Vps36 | 0.001293334 | 0.097261572 | 0.406 | 0.268 | 1 | 9 | 1.514925 |
| Xlr4b | 0.00129587 | 0.203342749 | 0.469 | 0.308 | 1 | 9 | 1.522727 |
| Ehd1 | 0.001302596 | 0.226337063 | 0.297 | 0.126 | 1 | 9 | 2.357143 |
| Cltc | 0.001303905 | 0.091778782 | 0.266 | 0.15 | 1 | 9 | 1.773333 |
| Tmed10 | 0.001308231 | 0.236975736 | 0.594 | 0.441 | 1 | 9 | 1.346939 |
| Slc1a5 | 0.001310279 | 0.182446428 | 0.375 | 0.192 | 1 | 9 | 1.953125 |
| Hnrnpk | 0.001326749 | 0.245104518 | 0.969 | 0.894 | 1 | 9 | 1.083893 |
| Tmem192 | 0.001331495 | 0.11633864 | 0.344 | 0.214 | 1 | 9 | 1.607477 |
| Pum2 | 0.001338927 | 0.105974299 | 0.5 | 0.322 | 1 | 9 | 1.552795 |
| Timm10b | 0.001342968 | 0.278487502 | 0.734 | 0.515 | 1 | 9 | 1.425243 |
| 0610011F06Rik | 0.001350581 | 0.067630663 | 0.438 | 0.298 | 1 | 9 | 1.469799 |
| Lonp2 | 0.001350966 | 0.115624974 | 0.406 | 0.243 | 1 | 9 | 1.670782 |
| Pstk | 0.001376086 | 0.039413037 | 0.266 | 0.171 | 1 | 9 | 1.555556 |
| Nfkb2 | 0.001376991 | 0.217268374 | 0.266 | 0.105 | 1 | 9 | 2.533333 |
| Magoh | 0.001394365 | 0.213275911 | 0.547 | 0.437 | 1 | 9 | 1.251716 |
| Gmfg | 0.001394783 | 0.289992858 | 0.938 | 0.882 | 1 | 9 | 1.063492 |
| Alg5 | 0.001412855 | 0.123874075 | 0.422 | 0.258 | 1 | 9 | 1.635659 |
| Hsbp1 | 0.001433135 | 0.240099981 | 0.656 | 0.461 | 1 | 9 | 1.422993 |
| Glod4 | 0.001443546 | 0.186499509 | 0.312 | 0.153 | 1 | 9 | 2.039216 |
| Irf2bpl | 0.001456059 | 0.231408591 | 0.5 | 0.331 | 1 | 9 | 1.510574 |
| Thy1 | 0.001456923 | 0.26963057 | 0.75 | 0.746 | 1 | 9 | 1.005362 |
| Ccnl1 | 0.001487135 | 0.161158719 | 0.641 | 0.444 | 1 | 9 | 1.443694 |
| Rpp21 | 0.001492307 | 0.189645946 | 0.594 | 0.373 | 1 | 9 | 1.592493 |
| Stat3 | 0.001493551 | 0.058279796 | 0.469 | 0.331 | 1 | 9 | 1.416918 |
| Setd5 | 0.001509157 | 0.208070092 | 0.359 | 0.264 | 1 | 9 | 1.359848 |
| Psma1 | 0.00153608 | 0.271802887 | 0.75 | 0.571 | 1 | 9 | 1.313485 |
| Ccnh | 0.001536875 | 0.106038759 | 0.359 | 0.212 | 1 | 9 | 1.693396 |
| Tsnax | 0.001543793 | 0.11562696 | 0.344 | 0.227 | 1 | 9 | 1.515419 |
| Rap1a | 0.001545148 | 0.272031794 | 0.812 | 0.609 | 1 | 9 | 1.333333 |
| 0610012G03Rik | 0.001546732 | 0.133814117 | 0.469 | 0.351 | 1 | 9 | 1.336182 |
| Rnf115 | 0.001549003 | 0.155049726 | 0.391 | 0.233 | 1 | 9 | 1.678112 |
| Usp4 | 0.00155621 | 0.028317517 | 0.266 | 0.176 | 1 | 9 | 1.511364 |
| Ube2g1 | 0.001565196 | 0.04661082 | 0.266 | 0.196 | 1 | 9 | 1.357143 |
| Ndufa1 | 0.001568582 | 0.276755364 | 0.812 | 0.648 | 1 | 9 | 1.253086 |
| Mrps28 | 0.001568804 | 0.151588759 | 0.328 | 0.237 | 1 | 9 | 1.383966 |
| Pmpca | 0.001570056 | 0.173279185 | 0.266 | 0.124 | 1 | 9 | 2.145161 |
| Rnpc3 | 0.001590983 | 0.11677106 | 0.297 | 0.164 | 1 | 9 | 1.810976 |
| Oxct1 | 0.001591995 | 0.135497832 | 0.375 | 0.31 | 1 | 9 | 1.209677 |
| Maea | 0.001597934 | 0.196333273 | 0.297 | 0.14 | 1 | 9 | 2.121429 |
| Dda1 | 0.001599829 | 0.177242297 | 0.438 | 0.272 | 1 | 9 | 1.610294 |
| Sephs2 | 0.00160348 | 0.099382912 | 0.297 | 0.184 | 1 | 9 | 1.61413 |
| Drap1 | 0.001603685 | 0.216475175 | 0.594 | 0.402 | 1 | 9 | 1.477612 |
| Malsu1 | 0.001615809 | 0.175708946 | 0.359 | 0.183 | 1 | 9 | 1.961749 |
| Arhgef2 | 0.001616666 | 0.085431145 | 0.297 | 0.185 | 1 | 9 | 1.605405 |
| Cox7a2 | 0.001622027 | 0.224850089 | 0.922 | 0.799 | 1 | 9 | 1.153942 |
| Zranb2 | 0.001627584 | 0.102022637 | 0.516 | 0.343 | 1 | 9 | 1.504373 |

| | | | | | | | |
|---------|-------------|-------------|-------|-------|---|---|----------|
| Erp29 | 0.001632892 | 0.197123859 | 0.484 | 0.333 | 1 | 9 | 1.453453 |
| Sart3 | 0.001646602 | 0.242926789 | 0.281 | 0.121 | 1 | 9 | 2.322314 |
| Xpo6 | 0.001664768 | 0.108348452 | 0.297 | 0.178 | 1 | 9 | 1.668539 |
| Hexb | 0.001675889 | 0.24340248 | 0.391 | 0.186 | 1 | 9 | 2.102151 |
| Ap4s1 | 0.001684315 | 0.174980731 | 0.359 | 0.186 | 1 | 9 | 1.930108 |
| Stxbp2 | 0.001685485 | 0.206457592 | 0.359 | 0.188 | 1 | 9 | 1.909574 |
| Spr | 0.001696314 | 0.013240964 | 0.359 | 0.259 | 1 | 9 | 1.3861 |
| Chmp4b | 0.001701104 | 0.086975421 | 0.531 | 0.423 | 1 | 9 | 1.255319 |
| Sub1 | 0.001707107 | 0.216645261 | 0.984 | 0.895 | 1 | 9 | 1.099441 |
| S1pr4 | 0.001716413 | 0.179989434 | 0.531 | 0.423 | 1 | 9 | 1.255319 |
| Mrpl52 | 0.001718158 | 0.282135072 | 0.828 | 0.671 | 1 | 9 | 1.233979 |
| Dazap2 | 0.001718399 | 0.243879342 | 0.578 | 0.402 | 1 | 9 | 1.437811 |
| Srrm2 | 0.001734204 | 0.216661531 | 1 | 0.934 | 1 | 9 | 1.070664 |
| Nus1 | 0.001739554 | 0.258180418 | 0.312 | 0.183 | 1 | 9 | 1.704918 |
| Lrrc8c | 0.001758629 | 0.187373044 | 0.391 | 0.205 | 1 | 9 | 1.907317 |
| Tmem14c | 0.001761681 | 0.265734362 | 0.609 | 0.447 | 1 | 9 | 1.362416 |
| Copb2 | 0.001769805 | 0.139910475 | 0.438 | 0.279 | 1 | 9 | 1.569892 |
| Dpysl2 | 0.001775564 | 0.166026158 | 0.328 | 0.164 | 1 | 9 | 2 |
| Syap1 | 0.001778688 | 0.201643495 | 0.281 | 0.117 | 1 | 9 | 2.401709 |
| Iqgap2 | 0.001789181 | 0.266515806 | 0.359 | 0.181 | 1 | 9 | 1.983425 |
| Abcf1 | 0.001800068 | 0.19370678 | 0.5 | 0.374 | 1 | 9 | 1.336898 |
| Ppp1r11 | 0.001801067 | 0.181616556 | 0.641 | 0.43 | 1 | 9 | 1.490698 |
| Ap1g2 | 0.001818534 | 0.139373973 | 0.266 | 0.124 | 1 | 9 | 2.145161 |
| Pbxip1 | 0.001844503 | 0.215177197 | 0.5 | 0.289 | 1 | 9 | 1.730104 |
| Ly9 | 0.001851622 | 0.040413596 | 0.453 | 0.357 | 1 | 9 | 1.268908 |
| Sfxn1 | 0.001854154 | 0.120945733 | 0.391 | 0.242 | 1 | 9 | 1.615702 |
| Mob4 | 0.001860048 | 0.149219619 | 0.438 | 0.277 | 1 | 9 | 1.581227 |
| Atp6v1f | 0.001886041 | 0.167428069 | 0.922 | 0.769 | 1 | 9 | 1.19896 |
| Mrpl35 | 0.001891829 | 0.123350516 | 0.422 | 0.261 | 1 | 9 | 1.616858 |
| Prps2 | 0.001894184 | 0.180677833 | 0.281 | 0.18 | 1 | 9 | 1.561111 |
| Psph | 0.001913057 | 0.201253546 | 0.391 | 0.226 | 1 | 9 | 1.730088 |
| Txndc17 | 0.001915066 | 0.270109314 | 0.625 | 0.426 | 1 | 9 | 1.467136 |
| Tfg | 0.00194385 | 0.198773255 | 0.297 | 0.151 | 1 | 9 | 1.966887 |
| Ppp1r18 | 0.001947458 | 0.231151987 | 0.75 | 0.574 | 1 | 9 | 1.30662 |
| Cbl | 0.001950027 | 0.171020195 | 0.375 | 0.237 | 1 | 9 | 1.582278 |
| Ifi204 | 0.001960072 | 0.144860821 | 0.266 | 0.124 | 1 | 9 | 2.145161 |
| Lypla1 | 0.001970087 | 0.198445924 | 0.406 | 0.216 | 1 | 9 | 1.87963 |
| Cmip | 0.002032802 | 0.238429124 | 0.312 | 0.158 | 1 | 9 | 1.974684 |
| Ociad1 | 0.00205174 | 0.237675861 | 0.719 | 0.508 | 1 | 9 | 1.415354 |
| Ssu72 | 0.002056329 | 0.092686061 | 0.797 | 0.605 | 1 | 9 | 1.317355 |
| Csnk1d | 0.002079991 | 0.097740131 | 0.328 | 0.201 | 1 | 9 | 1.631841 |
| Tkt | 0.002088338 | 0.22367725 | 0.5 | 0.397 | 1 | 9 | 1.259446 |
| Pgam1 | 0.0020924 | 0.291467397 | 0.609 | 0.429 | 1 | 9 | 1.41958 |
| Cdkn1b | 0.002118976 | 0.253510487 | 0.562 | 0.367 | 1 | 9 | 1.531335 |
| Adrbk1 | 0.002124843 | 0.254316611 | 0.5 | 0.302 | 1 | 9 | 1.655629 |
| Nt5c | 0.00212544 | 0.259955181 | 0.797 | 0.581 | 1 | 9 | 1.371773 |
| Btf3 | 0.002173299 | 0.208890842 | 1 | 0.979 | 1 | 9 | 1.02145 |

| | | | | | | | |
|----------|-------------|-------------|-------|-------|---|---|----------|
| Arhgef6 | 0.00219377 | 0.173243089 | 0.438 | 0.282 | 1 | 9 | 1.553191 |
| Arid4b | 0.002215223 | 0.178348055 | 0.594 | 0.397 | 1 | 9 | 1.496222 |
| Rbbp7 | 0.00223906 | 0.170672428 | 0.531 | 0.416 | 1 | 9 | 1.276442 |
| Snx17 | 0.002245831 | 0.191679355 | 0.422 | 0.294 | 1 | 9 | 1.435374 |
| Tpi1 | 0.002247187 | 0.259172606 | 0.391 | 0.205 | 1 | 9 | 1.907317 |
| Fam96a | 0.002251775 | 0.275462867 | 0.609 | 0.419 | 1 | 9 | 1.453461 |
| Wbp2 | 0.00226221 | 0.034614715 | 0.266 | 0.239 | 1 | 9 | 1.112971 |
| Utp11l | 0.002288824 | 0.041662309 | 0.422 | 0.312 | 1 | 9 | 1.352564 |
| Leprotl1 | 0.002297877 | 0.124004118 | 0.812 | 0.609 | 1 | 9 | 1.333333 |
| Twf2 | 0.002309997 | 0.217696754 | 0.625 | 0.409 | 1 | 9 | 1.528117 |
| Sema4d | 0.002312389 | 0.251050991 | 0.391 | 0.193 | 1 | 9 | 2.025907 |
| Capza1 | 0.002321353 | 0.256158087 | 0.594 | 0.403 | 1 | 9 | 1.473945 |
| Inpp5d | 0.002344131 | 0.225660255 | 0.281 | 0.142 | 1 | 9 | 1.978873 |
| Rabif | 0.002345127 | 0.105160483 | 0.266 | 0.147 | 1 | 9 | 1.809524 |
| Mettl23 | 0.002369369 | 0.07213933 | 0.422 | 0.331 | 1 | 9 | 1.274924 |
| Atxn10 | 0.00241859 | 0.199217976 | 0.453 | 0.252 | 1 | 9 | 1.797619 |
| Mrpl51 | 0.002422951 | 0.241944061 | 0.5 | 0.337 | 1 | 9 | 1.48368 |
| Ap3s1 | 0.002423792 | 0.263511294 | 0.359 | 0.162 | 1 | 9 | 2.216049 |
| Dnajc1 | 0.002436436 | 0.232525395 | 0.484 | 0.28 | 1 | 9 | 1.728571 |
| Polr2d | 0.002443269 | 0.173440985 | 0.281 | 0.14 | 1 | 9 | 2.007143 |
| Kxd1 | 0.002453059 | 0.109386062 | 0.391 | 0.308 | 1 | 9 | 1.269481 |
| Crot | 0.002468863 | 0.269475242 | 0.359 | 0.179 | 1 | 9 | 2.005587 |
| Dscr3 | 0.002475627 | 0.214430078 | 0.281 | 0.121 | 1 | 9 | 2.322314 |
| Ugp2 | 0.00248708 | 0.164782246 | 0.297 | 0.14 | 1 | 9 | 2.121429 |
| Rcsd1 | 0.002531462 | 0.302924783 | 0.641 | 0.466 | 1 | 9 | 1.375536 |
| Psmd10 | 0.002568302 | 0.214345744 | 0.391 | 0.21 | 1 | 9 | 1.861905 |
| Nol12 | 0.002572332 | 0.140741665 | 0.484 | 0.3 | 1 | 9 | 1.613333 |
| Dapk3 | 0.002610103 | 0.188936566 | 0.375 | 0.209 | 1 | 9 | 1.794258 |
| Rad23b | 0.00262641 | 0.238924158 | 0.5 | 0.295 | 1 | 9 | 1.694915 |
| Cd82 | 0.00262721 | 0.18985064 | 0.5 | 0.301 | 1 | 9 | 1.66113 |
| Suclg1 | 0.002638082 | 0.172337851 | 0.688 | 0.468 | 1 | 9 | 1.470085 |
| Pde4b | 0.002640207 | 0.191638019 | 0.344 | 0.2 | 1 | 9 | 1.72 |
| Psmc5 | 0.002689909 | 0.206821967 | 0.594 | 0.414 | 1 | 9 | 1.434783 |
| Sep-09 | 0.002691525 | 0.248066126 | 0.594 | 0.421 | 1 | 9 | 1.410926 |
| Ankra2 | 0.002693178 | 0.025006829 | 0.266 | 0.187 | 1 | 9 | 1.42246 |
| Hdac7 | 0.002706522 | 0.074310797 | 0.297 | 0.178 | 1 | 9 | 1.668539 |
| Zfand2b | 0.002733456 | 0.122017152 | 0.281 | 0.152 | 1 | 9 | 1.848684 |
| Ltb | 0.002736488 | 0.248656361 | 0.984 | 0.988 | 1 | 9 | 0.995951 |
| Adprhl2 | 0.002736603 | 0.085232131 | 0.281 | 0.174 | 1 | 9 | 1.614943 |
| Mrpl27 | 0.002740993 | 0.21576875 | 0.391 | 0.206 | 1 | 9 | 1.898058 |
| Crif3 | 0.002753997 | 0.280113639 | 0.688 | 0.56 | 1 | 9 | 1.228571 |
| Naa15 | 0.002770711 | 0.196018038 | 0.469 | 0.266 | 1 | 9 | 1.763158 |
| Sfpq | 0.00278122 | 0.099760571 | 0.625 | 0.518 | 1 | 9 | 1.206564 |
| Ctbp1 | 0.002781948 | 0.155946079 | 0.688 | 0.499 | 1 | 9 | 1.378758 |
| Vimp | 0.002806151 | 0.208520125 | 0.562 | 0.399 | 1 | 9 | 1.408521 |
| Get4 | 0.002806218 | 0.095093021 | 0.297 | 0.181 | 1 | 9 | 1.640884 |
| Ndufb6 | 0.002811689 | 0.252440668 | 0.625 | 0.427 | 1 | 9 | 1.4637 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Cwc15 | 0.002824831 | 0.274438566 | 0.703 | 0.485 | 1 | 9 | 1.449485 |
| Copb1 | 0.002838096 | 0.016844779 | 0.359 | 0.335 | 1 | 9 | 1.071642 |
| Cstb | 0.002841938 | 0.215600198 | 0.547 | 0.346 | 1 | 9 | 1.580925 |
| Snrpa | 0.002871168 | 0.095465999 | 0.391 | 0.258 | 1 | 9 | 1.515504 |
| Sae1 | 0.00287562 | 0.195121916 | 0.438 | 0.249 | 1 | 9 | 1.759036 |
| Cript | 0.002878881 | 0.204263871 | 0.531 | 0.365 | 1 | 9 | 1.454795 |
| Idh3a | 0.002880271 | 0.177670671 | 0.391 | 0.224 | 1 | 9 | 1.745536 |
| Efr3a | 0.0028863 | 0.190133359 | 0.594 | 0.376 | 1 | 9 | 1.579787 |
| Pgrmc1 | 0.002988116 | 0.157183733 | 0.266 | 0.129 | 1 | 9 | 2.062016 |
| Erich1 | 0.002991579 | 0.120851034 | 0.297 | 0.182 | 1 | 9 | 1.631868 |
| Fam3c | 0.002992368 | 0.208911966 | 0.516 | 0.322 | 1 | 9 | 1.602484 |
| Utp3 | 0.00299569 | 0.116493075 | 0.547 | 0.374 | 1 | 9 | 1.462567 |
| Tmem128 | 0.003044065 | 0.095738357 | 0.359 | 0.245 | 1 | 9 | 1.465306 |
| Ndufa12 | 0.003045997 | 0.230774874 | 0.625 | 0.557 | 1 | 9 | 1.122083 |
| Calm2 | 0.003050782 | 0.196912799 | 0.938 | 0.772 | 1 | 9 | 1.215026 |
| Tex264 | 0.003091164 | 0.163808898 | 0.359 | 0.232 | 1 | 9 | 1.547414 |
| Unc50 | 0.003102117 | 0.035074417 | 0.328 | 0.275 | 1 | 9 | 1.192727 |
| Crbn | 0.003122669 | 0.014405881 | 0.469 | 0.362 | 1 | 9 | 1.29558 |
| Senp6 | 0.003151483 | 0.136651311 | 0.484 | 0.303 | 1 | 9 | 1.59736 |
| Sar1a | 0.003167075 | 0.081293576 | 0.453 | 0.309 | 1 | 9 | 1.466019 |
| Mrpl10 | 0.003189324 | 0.113991915 | 0.281 | 0.15 | 1 | 9 | 1.873333 |
| Mapkap1 | 0.003194051 | 0.039452337 | 0.297 | 0.208 | 1 | 9 | 1.427885 |
| Morf4l1 | 0.003209337 | 0.234525458 | 0.969 | 0.875 | 1 | 9 | 1.107429 |
| Snrnp25 | 0.00321195 | 0.162252297 | 0.297 | 0.156 | 1 | 9 | 1.903846 |
| Smek2 | 0.003225421 | 0.237815392 | 0.641 | 0.414 | 1 | 9 | 1.548309 |
| Pik3r1 | 0.003227829 | 0.175345571 | 0.625 | 0.414 | 1 | 9 | 1.509662 |
| Yif1b | 0.003234428 | 0.14188628 | 0.266 | 0.132 | 1 | 9 | 2.015152 |
| Camk2d | 0.003259376 | 0.117204024 | 0.375 | 0.258 | 1 | 9 | 1.453488 |
| Tcf25 | 0.003268888 | 0.09492609 | 0.703 | 0.562 | 1 | 9 | 1.25089 |
| Gtf2h1 | 0.003287406 | 0.217328385 | 0.281 | 0.123 | 1 | 9 | 2.284553 |
| Aurkaip1 | 0.003305188 | 0.212199177 | 0.672 | 0.565 | 1 | 9 | 1.189381 |
| Pigx | 0.003334651 | 0.213029239 | 0.5 | 0.325 | 1 | 9 | 1.538462 |
| Celf2 | 0.003345748 | 0.133364593 | 0.734 | 0.529 | 1 | 9 | 1.387524 |
| Zdhhc20 | 0.003355494 | 0.22522537 | 0.531 | 0.377 | 1 | 9 | 1.408488 |
| Akt2 | 0.003411135 | 0.01138549 | 0.266 | 0.189 | 1 | 9 | 1.407407 |
| Hnrnpm | 0.003415727 | 0.274700388 | 0.75 | 0.543 | 1 | 9 | 1.381215 |
| Alkbh5 | 0.003479272 | 0.033013972 | 0.297 | 0.206 | 1 | 9 | 1.441748 |
| Psmc4 | 0.003486324 | 0.016392148 | 0.5 | 0.415 | 1 | 9 | 1.204819 |
| Notch1 | 0.00349849 | 0.132416331 | 0.266 | 0.132 | 1 | 9 | 2.015152 |
| Atp6v1g1 | 0.003516062 | 0.228941186 | 0.734 | 0.576 | 1 | 9 | 1.274306 |
| Al413582 | 0.003533859 | 0.177269374 | 0.562 | 0.37 | 1 | 9 | 1.518919 |
| Atad1 | 0.003554278 | 0.092704452 | 0.281 | 0.165 | 1 | 9 | 1.70303 |
| H2-Eb1 | 0.003563713 | 0.140396039 | 0.422 | 0.43 | 1 | 9 | 0.981395 |
| Ubn2 | 0.003565533 | 0.099213933 | 0.312 | 0.206 | 1 | 9 | 1.514563 |
| Magt1 | 0.0035831 | 0.141560266 | 0.297 | 0.188 | 1 | 9 | 1.579787 |
| Tra2a | 0.003589285 | 0.0449477 | 0.453 | 0.321 | 1 | 9 | 1.411215 |
| Glipr2 | 0.00359556 | 0.259870922 | 0.562 | 0.352 | 1 | 9 | 1.596591 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Taf6l | 0.003626531 | 0.21826719 | 0.609 | 0.402 | 1 | 9 | 1.514925 |
| Pfdn4 | 0.003642561 | 0.208079686 | 0.422 | 0.235 | 1 | 9 | 1.795745 |
| Gltf | 0.003686827 | 0.06875427 | 0.625 | 0.492 | 1 | 9 | 1.270325 |
| Stx5a | 0.003688557 | 0.17011917 | 0.391 | 0.235 | 1 | 9 | 1.66383 |
| Dhx15 | 0.003689604 | 0.053551981 | 0.359 | 0.251 | 1 | 9 | 1.430279 |
| Lsm2 | 0.003708131 | 0.14338916 | 0.406 | 0.334 | 1 | 9 | 1.215569 |
| Psemb8 | 0.003724289 | 0.2264931 | 1 | 0.97 | 1 | 9 | 1.030928 |
| Mpdu1 | 0.003743373 | 0.087036583 | 0.266 | 0.149 | 1 | 9 | 1.785235 |
| Rtn4 | 0.003753254 | 0.197227506 | 0.391 | 0.235 | 1 | 9 | 1.66383 |
| Slc25a5 | 0.003755492 | 0.244780716 | 0.969 | 0.95 | 1 | 9 | 1.02 |
| Fbxo22 | 0.003761886 | 0.191419384 | 0.281 | 0.122 | 1 | 9 | 2.303279 |
| Ndufv2 | 0.003773907 | 0.230958391 | 0.734 | 0.514 | 1 | 9 | 1.428016 |
| Isg20 | 0.003795976 | 0.230145816 | 0.266 | 0.117 | 1 | 9 | 2.273504 |
| Rsf1 | 0.003815209 | 0.156170796 | 0.469 | 0.318 | 1 | 9 | 1.474843 |
| Nipsnap3b | 0.003870806 | 0.105484427 | 0.312 | 0.248 | 1 | 9 | 1.258065 |
| Rinl | 0.003895712 | 0.22205307 | 0.734 | 0.545 | 1 | 9 | 1.346789 |
| Ppp1r7 | 0.003903461 | 0.051646513 | 0.297 | 0.193 | 1 | 9 | 1.53886 |
| 1600014C10Rik | 0.003910322 | 0.241580659 | 0.344 | 0.2 | 1 | 9 | 1.72 |
| Zfp91 | 0.003939955 | 0.231454082 | 0.375 | 0.191 | 1 | 9 | 1.963351 |
| Map2k2 | 0.003964575 | 0.234138107 | 0.656 | 0.462 | 1 | 9 | 1.419913 |
| Uqcrq | 0.004026286 | 0.249524548 | 0.812 | 0.731 | 1 | 9 | 1.110807 |
| Mff | 0.0040266 | 0.226195333 | 0.594 | 0.388 | 1 | 9 | 1.530928 |
| Rara | 0.004036388 | 0.16771063 | 0.266 | 0.133 | 1 | 9 | 2 |
| Zcrb1 | 0.004064962 | 0.034167336 | 0.469 | 0.344 | 1 | 9 | 1.363372 |
| D16Ertd472e | 0.004072105 | 0.142574217 | 0.312 | 0.173 | 1 | 9 | 1.803468 |
| Tomm34 | 0.004100237 | 0.058950533 | 0.328 | 0.214 | 1 | 9 | 1.53271 |
| Nxf1 | 0.004111463 | 0.183986545 | 0.516 | 0.368 | 1 | 9 | 1.402174 |
| Dazap1 | 0.004135151 | 0.199638098 | 0.531 | 0.373 | 1 | 9 | 1.423592 |
| Glr2 | 0.004137352 | 0.027716508 | 0.391 | 0.284 | 1 | 9 | 1.376761 |
| Ndufb2 | 0.004145506 | 0.24146612 | 0.672 | 0.458 | 1 | 9 | 1.467249 |
| Ndufc1 | 0.004157196 | 0.213088628 | 0.656 | 0.514 | 1 | 9 | 1.276265 |
| Bud31 | 0.004169107 | 0.212890046 | 0.641 | 0.422 | 1 | 9 | 1.518957 |
| Wipf1 | 0.004169756 | 0.030104437 | 0.266 | 0.27 | 1 | 9 | 0.985185 |
| Nrros | 0.00420644 | 0.034016357 | 0.266 | 0.189 | 1 | 9 | 1.407407 |
| Pnkd | 0.004218167 | 0.101313109 | 0.312 | 0.247 | 1 | 9 | 1.263158 |
| Angel2 | 0.004223992 | 0.17968759 | 0.453 | 0.266 | 1 | 9 | 1.703008 |
| Parp9 | 0.004229225 | 0.150745521 | 0.344 | 0.204 | 1 | 9 | 1.686275 |
| Ube2i | 0.004244436 | 0.236261109 | 0.812 | 0.655 | 1 | 9 | 1.239695 |
| Dohh | 0.004281926 | 0.072634143 | 0.281 | 0.19 | 1 | 9 | 1.478947 |
| Tpm3 | 0.004309133 | 0.250398136 | 0.922 | 0.849 | 1 | 9 | 1.085984 |
| Gdi2 | 0.004316732 | 0.272378885 | 0.766 | 0.601 | 1 | 9 | 1.274542 |
| Mrpl42 | 0.00431998 | 0.251413166 | 0.562 | 0.419 | 1 | 9 | 1.341289 |
| Polr2h | 0.004330791 | 0.041786568 | 0.344 | 0.243 | 1 | 9 | 1.415638 |
| Cir1 | 0.004347035 | 0.209544955 | 0.406 | 0.216 | 1 | 9 | 1.87963 |
| Vav1 | 0.004348546 | 0.043167406 | 0.391 | 0.273 | 1 | 9 | 1.432234 |
| Luc7l | 0.004351974 | 0.004571017 | 0.266 | 0.188 | 1 | 9 | 1.414894 |
| Cklf | 0.004369256 | 0.126845094 | 0.297 | 0.199 | 1 | 9 | 1.492462 |

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|---------|-------------|-------------|-------|-------|---|---|----------|
| Med10 | 0.004385647 | 0.171945499 | 0.516 | 0.33 | 1 | 9 | 1.563636 |
| Bscl2 | 0.004418098 | 0.21943109 | 0.391 | 0.221 | 1 | 9 | 1.769231 |
| Itsn2 | 0.0044392 | 0.245001106 | 0.484 | 0.328 | 1 | 9 | 1.47561 |
| Zmiz1 | 0.004444414 | 0.217569757 | 0.281 | 0.13 | 1 | 9 | 2.161538 |
| Ctso | 0.004463133 | 0.049981206 | 0.266 | 0.254 | 1 | 9 | 1.047244 |
| Fkbp8 | 0.004477955 | 0.217283716 | 0.672 | 0.527 | 1 | 9 | 1.275142 |
| Atp5j | 0.004500738 | 0.229407493 | 0.938 | 0.832 | 1 | 9 | 1.127404 |
| Zc3h13 | 0.00454418 | 0.090391722 | 0.453 | 0.3 | 1 | 9 | 1.51 |
| Ing2 | 0.004559618 | 0.105616452 | 0.266 | 0.145 | 1 | 9 | 1.834483 |
| Cox7c | 0.004606553 | 0.227817292 | 0.938 | 0.913 | 1 | 9 | 1.027382 |
| Apopt1 | 0.004610204 | 0.209453476 | 0.344 | 0.228 | 1 | 9 | 1.508772 |
| Gabpb1 | 0.004625294 | 0.204905907 | 0.266 | 0.109 | 1 | 9 | 2.440367 |
| Adgre5 | 0.004646169 | 0.219354718 | 0.531 | 0.326 | 1 | 9 | 1.628834 |
| Raf1 | 0.004663895 | 0.173969506 | 0.375 | 0.208 | 1 | 9 | 1.802885 |
| Eci2 | 0.00466894 | 0.129440031 | 0.328 | 0.198 | 1 | 9 | 1.656566 |
| Pnrc2 | 0.004697398 | 0.19730675 | 0.5 | 0.362 | 1 | 9 | 1.381215 |
| Mark2 | 0.004720505 | 0.107895056 | 0.5 | 0.333 | 1 | 9 | 1.501502 |
| Mpc1 | 0.004729321 | 0.282145579 | 0.594 | 0.419 | 1 | 9 | 1.417661 |
| Ppp1r8 | 0.004745587 | 0.17330162 | 0.297 | 0.164 | 1 | 9 | 1.810976 |
| Sepp1 | 0.004771231 | 0.283178583 | 0.453 | 0.293 | 1 | 9 | 1.546075 |
| Stk11 | 0.004820561 | 0.137852367 | 0.328 | 0.214 | 1 | 9 | 1.53271 |
| Uqcr10 | 0.004826763 | 0.240493519 | 0.875 | 0.815 | 1 | 9 | 1.07362 |
| Phf23 | 0.004865149 | 0.132250804 | 0.359 | 0.211 | 1 | 9 | 1.701422 |
| Fmr1 | 0.004927332 | 0.153793874 | 0.359 | 0.212 | 1 | 9 | 1.693396 |
| Ptpn1 | 0.004939002 | 0.248212188 | 0.672 | 0.473 | 1 | 9 | 1.420719 |
| Fuca1 | 0.004942168 | 0.120739653 | 0.344 | 0.229 | 1 | 9 | 1.502183 |
| Ash1l | 0.004978165 | 0.100415172 | 0.547 | 0.402 | 1 | 9 | 1.360697 |
| Rock2 | 0.005013898 | 0.217667491 | 0.297 | 0.13 | 1 | 9 | 2.284615 |
| Pbdc1 | 0.005059869 | 0.098595354 | 0.359 | 0.236 | 1 | 9 | 1.521186 |
| Med8 | 0.005121704 | 0.128399747 | 0.344 | 0.247 | 1 | 9 | 1.392713 |
| Prdx5 | 0.00512578 | 0.22526264 | 0.641 | 0.471 | 1 | 9 | 1.360934 |
| Pigyl | 0.005141569 | 0.149069738 | 0.312 | 0.19 | 1 | 9 | 1.642105 |
| Clptm1l | 0.005145647 | 0.229168756 | 0.453 | 0.25 | 1 | 9 | 1.812 |
| N4bp2l1 | 0.005181544 | 0.157805925 | 0.328 | 0.173 | 1 | 9 | 1.895954 |
| Actl6a | 0.005186065 | 0.046612262 | 0.391 | 0.296 | 1 | 9 | 1.320946 |
| Pigt | 0.005198293 | 0.178371294 | 0.328 | 0.199 | 1 | 9 | 1.648241 |
| Tap1 | 0.005198893 | 0.212537632 | 0.672 | 0.492 | 1 | 9 | 1.365854 |
| Cops7a | 0.0051992 | 0.105063448 | 0.312 | 0.183 | 1 | 9 | 1.704918 |
| Tacc1 | 0.005223892 | 0.052453526 | 0.281 | 0.187 | 1 | 9 | 1.502674 |
| Derl1 | 0.005244212 | 0.196327088 | 0.469 | 0.292 | 1 | 9 | 1.606164 |
| Appbp2 | 0.005412206 | 0.156375188 | 0.297 | 0.149 | 1 | 9 | 1.993289 |
| Igtp | 0.005462988 | 0.20471079 | 0.516 | 0.459 | 1 | 9 | 1.124183 |
| Flt3l | 0.005488863 | 0.061190423 | 0.359 | 0.237 | 1 | 9 | 1.514768 |
| Snx6 | 0.005506116 | 0.166066399 | 0.438 | 0.265 | 1 | 9 | 1.65283 |
| Ahsa1 | 0.005526506 | 0.082064963 | 0.531 | 0.429 | 1 | 9 | 1.237762 |
| Mpv17l2 | 0.005530206 | 0.055562637 | 0.266 | 0.172 | 1 | 9 | 1.546512 |
| Itpr2 | 0.005592167 | 0.095102611 | 0.5 | 0.379 | 1 | 9 | 1.319261 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Il16 | 0.005634228 | 0.206944468 | 0.781 | 0.57 | 1 | 9 | 1.370175 |
| Ak2 | 0.005656195 | 0.257914902 | 0.5 | 0.299 | 1 | 9 | 1.672241 |
| Tes | 0.005687271 | 0.037913828 | 0.422 | 0.312 | 1 | 9 | 1.352564 |
| Srsf10 | 0.005688185 | 0.142854894 | 0.469 | 0.371 | 1 | 9 | 1.264151 |
| Mob1a | 0.005691342 | 0.127076949 | 0.344 | 0.213 | 1 | 9 | 1.615023 |
| Uqcc2 | 0.005703125 | 0.210855924 | 0.594 | 0.395 | 1 | 9 | 1.503797 |
| Ccz1 | 0.005726898 | 0.083119295 | 0.328 | 0.209 | 1 | 9 | 1.569378 |
| Psm3 | 0.005753463 | 0.045479682 | 0.375 | 0.264 | 1 | 9 | 1.420455 |
| Mrpl28 | 0.005793092 | 0.21526512 | 0.5 | 0.304 | 1 | 9 | 1.644737 |
| Trappc6b | 0.005819564 | 0.004885214 | 0.422 | 0.35 | 1 | 9 | 1.205714 |
| Atg101 | 0.005825014 | 0.142389633 | 0.312 | 0.166 | 1 | 9 | 1.879518 |
| Socs3 | 0.005833687 | 0.325638471 | 0.297 | 0.164 | 1 | 9 | 1.810976 |
| Pnkp | 0.005895876 | 0.219831793 | 0.297 | 0.163 | 1 | 9 | 1.822086 |
| Timm17b | 0.005975951 | 0.23991207 | 0.391 | 0.236 | 1 | 9 | 1.65678 |
| Mgat2 | 0.005997359 | 0.168489892 | 0.562 | 0.364 | 1 | 9 | 1.543956 |
| Ube2j2 | 0.006061068 | 0.164012215 | 0.453 | 0.331 | 1 | 9 | 1.36858 |
| BC005537 | 0.006061201 | 0.106232997 | 0.312 | 0.226 | 1 | 9 | 1.380531 |
| Map4k2 | 0.006097015 | 0.089923924 | 0.281 | 0.184 | 1 | 9 | 1.527174 |
| Vdac3 | 0.006146953 | 0.130757892 | 0.484 | 0.351 | 1 | 9 | 1.378917 |
| Ankrd13c | 0.006190987 | 0.205789957 | 0.266 | 0.125 | 1 | 9 | 2.128 |
| Hint2 | 0.006210743 | 0.09521162 | 0.391 | 0.25 | 1 | 9 | 1.564 |
| Ddb1 | 0.00621819 | 0.058978464 | 0.266 | 0.17 | 1 | 9 | 1.564706 |
| Araf | 0.006276144 | 0.017430979 | 0.312 | 0.232 | 1 | 9 | 1.344828 |
| Iqgap1 | 0.006285929 | 0.262703987 | 0.703 | 0.546 | 1 | 9 | 1.287546 |
| Ctdsp1 | 0.006329822 | 0.111154534 | 0.297 | 0.196 | 1 | 9 | 1.515306 |
| Usp34 | 0.006338073 | 0.164213452 | 0.469 | 0.363 | 1 | 9 | 1.292011 |
| Bnip3l | 0.006370742 | 0.114450971 | 0.719 | 0.615 | 1 | 9 | 1.169106 |
| Bccip | 0.006373557 | 0.151159156 | 0.562 | 0.377 | 1 | 9 | 1.490716 |
| Ube2k | 0.006431264 | 0.240532334 | 0.578 | 0.379 | 1 | 9 | 1.525066 |
| Ppa1 | 0.006445027 | 0.094234443 | 0.375 | 0.259 | 1 | 9 | 1.447876 |
| Rsl24d1 | 0.006532576 | 0.01376819 | 0.297 | 0.256 | 1 | 9 | 1.160156 |
| Pgls | 0.006538311 | 0.130003301 | 0.672 | 0.481 | 1 | 9 | 1.397089 |
| Bloc1s2 | 0.006600779 | 0.062107774 | 0.344 | 0.228 | 1 | 9 | 1.508772 |
| Nmt1 | 0.006615902 | 0.033392932 | 0.359 | 0.288 | 1 | 9 | 1.246528 |
| Zfp800 | 0.00661927 | 0.097924656 | 0.328 | 0.235 | 1 | 9 | 1.395745 |
| Ddt | 0.00664521 | 0.152925961 | 0.391 | 0.227 | 1 | 9 | 1.722467 |
| Ten1 | 0.006684895 | 0.10040093 | 0.422 | 0.285 | 1 | 9 | 1.480702 |
| Bin1 | 0.006734655 | 0.161900042 | 0.641 | 0.465 | 1 | 9 | 1.378495 |
| Asun | 0.006741341 | 0.155248617 | 0.266 | 0.128 | 1 | 9 | 2.078125 |
| Stag2 | 0.00681669 | 0.148094242 | 0.516 | 0.352 | 1 | 9 | 1.465909 |
| Prkca | 0.006838918 | 0.160477507 | 0.359 | 0.24 | 1 | 9 | 1.495833 |
| Ptbp3 | 0.006853127 | 0.111435539 | 0.641 | 0.486 | 1 | 9 | 1.31893 |
| Ndufb11 | 0.006862569 | 0.154292375 | 0.703 | 0.7 | 1 | 9 | 1.004286 |
| Bag1 | 0.006949694 | 0.240006174 | 0.656 | 0.44 | 1 | 9 | 1.490909 |
| Sash3 | 0.00700817 | 0.194230453 | 0.453 | 0.343 | 1 | 9 | 1.3207 |
| Emc4 | 0.00706574 | 0.146330703 | 0.391 | 0.244 | 1 | 9 | 1.602459 |
| Rab22a | 0.007084891 | 0.195478345 | 0.281 | 0.142 | 1 | 9 | 1.978873 |

| | | | | | | | |
|---------------|-------------|-------------|-------|-------|---|---|----------|
| Taldo1 | 0.007102196 | 0.247649097 | 0.719 | 0.605 | 1 | 9 | 1.18843 |
| Lbr | 0.007121992 | 0.160581545 | 0.5 | 0.365 | 1 | 9 | 1.369863 |
| 1810058I24Rik | 0.007134231 | 0.124848735 | 0.641 | 0.453 | 1 | 9 | 1.415011 |
| Tmem165 | 0.007205747 | 0.273639485 | 0.328 | 0.179 | 1 | 9 | 1.832402 |
| Srp72 | 0.007215004 | 0.215542334 | 0.5 | 0.353 | 1 | 9 | 1.416431 |
| Myl12b | 0.007248908 | 0.111918205 | 1 | 0.922 | 1 | 9 | 1.084599 |
| Tnip1 | 0.007261792 | 0.153824101 | 0.297 | 0.15 | 1 | 9 | 1.98 |
| 2310011J03Rik | 0.007285722 | 0.160744036 | 0.391 | 0.262 | 1 | 9 | 1.492366 |
| Ddx54 | 0.007299545 | 0.088387501 | 0.453 | 0.308 | 1 | 9 | 1.470779 |
| Il27ra | 0.007311708 | 0.166903945 | 0.5 | 0.324 | 1 | 9 | 1.54321 |
| Prkacb | 0.007313194 | 0.044017376 | 0.375 | 0.315 | 1 | 9 | 1.190476 |
| Znhit1 | 0.007379929 | 0.086624869 | 0.266 | 0.198 | 1 | 9 | 1.343434 |
| Uba2 | 0.007384592 | 0.075928787 | 0.438 | 0.304 | 1 | 9 | 1.440789 |
| Xaf1 | 0.00741095 | 0.144206923 | 0.391 | 0.241 | 1 | 9 | 1.622407 |
| Prrc2b | 0.007430594 | 0.08207499 | 0.281 | 0.168 | 1 | 9 | 1.672619 |
| Arhgap9 | 0.007556572 | 0.161061139 | 0.734 | 0.536 | 1 | 9 | 1.369403 |
| Sppl2a | 0.007557542 | 0.096070179 | 0.266 | 0.15 | 1 | 9 | 1.773333 |
| Itgb1bp1 | 0.007567241 | 0.255197222 | 0.469 | 0.267 | 1 | 9 | 1.756554 |
| Smim20 | 0.007572851 | 0.042901611 | 0.328 | 0.263 | 1 | 9 | 1.247148 |
| Eif2s2 | 0.007573008 | 0.087575635 | 0.75 | 0.637 | 1 | 9 | 1.177394 |
| Itgal | 0.00770316 | 0.14936833 | 0.359 | 0.218 | 1 | 9 | 1.646789 |
| Usp16 | 0.007720256 | 0.111923016 | 0.297 | 0.165 | 1 | 9 | 1.8 |
| Wtap | 0.00772956 | 0.206501369 | 0.359 | 0.221 | 1 | 9 | 1.624434 |
| Rtf1 | 0.007873556 | 0.127809316 | 0.719 | 0.555 | 1 | 9 | 1.295495 |
| Myh9 | 0.007955699 | 0.225638185 | 0.734 | 0.562 | 1 | 9 | 1.30605 |
| Fam173a | 0.008073763 | 0.1009757 | 0.562 | 0.394 | 1 | 9 | 1.426396 |
| Zmynd11 | 0.008104758 | 0.16834642 | 0.359 | 0.208 | 1 | 9 | 1.725962 |
| Ppia | 0.008113873 | 0.145459091 | 1 | 1 | 1 | 9 | 1 |
| Dnajc5 | 0.008136716 | 0.172494296 | 0.484 | 0.326 | 1 | 9 | 1.484663 |
| Psmc6 | 0.008138053 | 0.122183762 | 0.469 | 0.322 | 1 | 9 | 1.456522 |
| Atp6v1e1 | 0.008168883 | 0.072767856 | 0.438 | 0.317 | 1 | 9 | 1.381703 |
| Mrpl18 | 0.008195234 | 0.193749366 | 0.688 | 0.528 | 1 | 9 | 1.30303 |
| Fbxl5 | 0.008250748 | 0.149939309 | 0.297 | 0.152 | 1 | 9 | 1.953947 |
| Rnf34 | 0.008263447 | 0.10206594 | 0.297 | 0.175 | 1 | 9 | 1.697143 |
| Psmc1 | 0.008275203 | 0.211803962 | 0.406 | 0.28 | 1 | 9 | 1.45 |
| Rab2a | 0.00836316 | 0.178325392 | 0.641 | 0.557 | 1 | 9 | 1.150808 |
| Ranbp2 | 0.00837437 | 0.118929553 | 0.266 | 0.146 | 1 | 9 | 1.821918 |
| Clec2d | 0.008413455 | 0.190551444 | 0.562 | 0.434 | 1 | 9 | 1.294931 |
| Dhx36 | 0.008485583 | 0.095967745 | 0.328 | 0.246 | 1 | 9 | 1.333333 |
| Hmg20b | 0.008492928 | 0.133313452 | 0.281 | 0.192 | 1 | 9 | 1.463542 |
| Mydgf | 0.008541652 | 0.139239392 | 0.344 | 0.233 | 1 | 9 | 1.476395 |
| Vps4b | 0.008676823 | 0.13288495 | 0.406 | 0.311 | 1 | 9 | 1.305466 |
| Smim15 | 0.008774757 | 0.195251717 | 0.453 | 0.289 | 1 | 9 | 1.567474 |
| Taf12 | 0.008778113 | 5.24E-05 | 0.344 | 0.263 | 1 | 9 | 1.307985 |
| 1700020I14Rik | 0.008788449 | 0.213140621 | 0.422 | 0.239 | 1 | 9 | 1.76569 |
| Commd7 | 0.00883464 | 0.243657974 | 0.516 | 0.31 | 1 | 9 | 1.664516 |
| Atrx | 0.008887291 | 0.030676151 | 0.766 | 0.616 | 1 | 9 | 1.243506 |

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|----------|-------------|-------------|-------|-------|---|---|----------|
| Bak1 | 0.008949049 | 0.143216528 | 0.266 | 0.131 | 1 | 9 | 2.030534 |
| Hnrnpd | 0.008951276 | 0.129279313 | 0.531 | 0.462 | 1 | 9 | 1.149351 |
| Kansl1 | 0.008960584 | 0.106924544 | 0.266 | 0.184 | 1 | 9 | 1.445652 |
| Sdhd | 0.008970561 | 0.25245867 | 0.516 | 0.311 | 1 | 9 | 1.659164 |
| Flna | 0.008991319 | 0.206414197 | 0.453 | 0.326 | 1 | 9 | 1.389571 |
| Mlec | 0.009018905 | 0.118476461 | 0.344 | 0.211 | 1 | 9 | 1.630332 |
| Fyb | 0.009056919 | 0.147649658 | 0.984 | 0.879 | 1 | 9 | 1.119454 |
| Amn1 | 0.009110618 | 0.215121759 | 0.281 | 0.168 | 1 | 9 | 1.672619 |
| Ly6a | 0.009127141 | 0.472301188 | 0.391 | 0.327 | 1 | 9 | 1.195719 |
| Mrps18a | 0.009161798 | 0.050091097 | 0.375 | 0.265 | 1 | 9 | 1.415094 |
| Srp9 | 0.009231906 | 0.238045711 | 0.828 | 0.722 | 1 | 9 | 1.146814 |
| Fam53b | 0.009244306 | 0.167061331 | 0.578 | 0.395 | 1 | 9 | 1.463291 |
| Cox6a1 | 0.009294251 | 0.213446588 | 0.906 | 0.829 | 1 | 9 | 1.092883 |
| Sipa1 | 0.009326788 | 0.229901298 | 0.516 | 0.355 | 1 | 9 | 1.453521 |
| Ensa | 0.009362455 | 0.070272109 | 0.281 | 0.181 | 1 | 9 | 1.552486 |
| Rbmxl1 | 0.009367639 | 0.125635588 | 0.359 | 0.303 | 1 | 9 | 1.184818 |
| Tpm3-rs7 | 0.009463359 | 0.222984128 | 0.938 | 0.84 | 1 | 9 | 1.116667 |
| Cox7b | 0.009480966 | 0.194441177 | 0.891 | 0.722 | 1 | 9 | 1.234072 |
| Bri3 | 0.00953688 | 0.071280559 | 0.312 | 0.265 | 1 | 9 | 1.177358 |
| Mllt6 | 0.009588493 | 0.077287406 | 0.328 | 0.224 | 1 | 9 | 1.464286 |
| Psm2 | 0.009609341 | 0.255341674 | 0.562 | 0.359 | 1 | 9 | 1.56546 |
| Smarcb1 | 0.009744715 | 0.132412646 | 0.328 | 0.207 | 1 | 9 | 1.584541 |
| Dctn2 | 0.009805648 | 0.215624898 | 0.375 | 0.196 | 1 | 9 | 1.913265 |
| Slc50a1 | 0.009858093 | 0.150175004 | 0.562 | 0.438 | 1 | 9 | 1.283105 |
| Hdac1 | 0.00987533 | 0.244903675 | 0.609 | 0.424 | 1 | 9 | 1.436321 |
| Cops5 | 0.009895501 | 0.117163324 | 0.391 | 0.256 | 1 | 9 | 1.527344 |
| Isca2 | 0.0099305 | 0.078707245 | 0.266 | 0.166 | 1 | 9 | 1.60241 |