**Table S4. Cluster specific differential expressed genes**

| cluster | gene | avg_logFC | p_val | p_val_adj |
|---|---|---|---|---|
| C01 | Txnip | 0.604 | 0 | 0 |
| C01 | Ifitm1 | 0.434 | 0 | 0 |
| C01 | Hlf | 0.406 | 0 | 0 |
| C01 | Tpx2 | -0.407 | 0 | 0 |
| C01 | Cdc20 | -0.413 | 0 | 0 |
| C01 | Ccnb2 | -0.416 | 0 | 0 |
| C01 | Prc1 | -0.416 | 0 | 0 |
| C01 | Smc4 | -0.458 | 0 | 0 |
| C01 | Ccna2 | -0.461 | 0 | 0 |
| C01 | Smc2 | -0.462 | 0 | 0 |
| C01 | Spc24 | -0.481 | 0 | 0 |
| C01 | Nucks1 | -0.482 | 0 | 0 |
| C01 | Cdk1 | -0.494 | 0 | 0 |
| C01 | Ube2s | -0.515 | 0 | 0 |
| C01 | Cks1b | -0.515 | 0 | 0 |
| C01 | H2afz | -0.525 | 0 | 0 |
| C01 | Nusap1 | -0.531 | 0 | 0 |
| C01 | Tuba1b | -0.533 | 0 | 0 |
| C01 | Tubb4b | -0.541 | 0 | 0 |
| C01 | Cdca3 | -0.545 | 0 | 0 |
| C01 | Cenpf | -0.574 | 0 | 0 |
| C01 | Tubb5 | -0.585 | 0 | 0 |
| C01 | Cenpa | -0.621 | 0 | 0 |
| C01 | Klf6 | -0.641 | 0 | 0 |
| C01 | 2810417H13 | -0.661 | 0 | 0 |
| C01 | Cdca8 | -0.662 | 0 | 0 |
| C01 | H2afx | -0.729 | 0 | 0 |
| C01 | Mki67 | -0.731 | 0 | 0 |
| C01 | Cks2 | -0.817 | 0 | 0 |
| C01 | Hmgb2 | -0.824 | 0 | 0 |
| C01 | Top2a | -0.84 | 0 | 0 |
| C01 | Birc5 | -0.862 | 0 | 0 |
| C01 | Ube2c | -0.934 | 0 | 0 |
| C01 | Hist1h2ap | -1.007 | 0 | 0 |
| C01 | Klf2 | -0.643 | 9.35E-281 | 1.38E-276 |
| C01 | Mt1 | -0.574 | 2.06E-258 | 3.04E-254 |
| C01 | Cd69 | -0.423 | 7.23E-239 | 1.06E-234 |
| C01 | Dusp1 | -0.571 | 3.51E-235 | 5.16E-231 |
| C01 | Junb | -0.546 | 3.12E-197 | 4.60E-193 |
| C01 | Fosb | -0.575 | 3.27E-176 | 4.81E-172 |
| C01 | Zfp36 | -0.525 | 2.78E-166 | 4.09E-162 |

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|---|---|---|---|---|
| C01 | Fos | -1.247 | 5.12E-166 | 7.54E-162 |
| C01 | Ms4a3 | -0.69 | 3.01E-155 | 4.43E-151 |
| C01 | Elane | -1.211 | 6.22E-140 | 9.16E-136 |
| C01 | Egr1 | -0.489 | 2.67E-117 | 3.94E-113 |
| C01 | Wfdc17 | 0.42 | 3.84E-88 | 5.65E-84 |
| C01 | Ctsg | -0.672 | 1.97E-71 | 2.91E-67 |
| C01 | Bex4 | -0.42 | 4.12E-69 | 6.07E-65 |
| C01 | Pf4 | -0.766 | 6.15E-57 | 9.05E-53 |
| C01 | Ier2 | -0.408 | 7.69E-42 | 1.13E-37 |
| C01 | Jun | -0.55 | 3.02E-31 | 4.45E-27 |
| C01 | Jund | -0.464 | 1.29E-25 | 1.89E-21 |
| C01 | Mpo | -0.635 | 5.68E-24 | 8.37E-20 |
| C01 | Dntt | -0.474 | 2.84E-10 | 4.18E-06 |
| C02 | Hist1h2ap | 1.128 | 0 | 0 |
| C02 | Ube2c | 1.074 | 0 | 0 |
| C02 | Top2a | 1 | 0 | 0 |
| C02 | H2afx | 0.946 | 0 | 0 |
| C02 | Birc5 | 0.931 | 0 | 0 |
| C02 | Hmgb2 | 0.893 | 0 | 0 |
| C02 | Cenpf | 0.887 | 0 | 0 |
| C02 | Tubb5 | 0.865 | 0 | 0 |
| C02 | Cdca8 | 0.849 | 0 | 0 |
| C02 | Mki67 | 0.822 | 0 | 0 |
| C02 | Cenpa | 0.814 | 0 | 0 |
| C02 | Cks2 | 0.814 | 0 | 0 |
| C02 | Nusap1 | 0.802 | 0 | 0 |
| C02 | Tubb4b | 0.733 | 0 | 0 |
| C02 | Ccnb2 | 0.707 | 0 | 0 |
| C02 | Cdca3 | 0.673 | 0 | 0 |
| C02 | Lockd | 0.667 | 0 | 0 |
| C02 | Tuba1b | 0.654 | 0 | 0 |
| C02 | Cdk1 | 0.649 | 0 | 0 |
| C02 | Cdc20 | 0.637 | 0 | 0 |
| C02 | Prc1 | 0.635 | 0 | 0 |
| C02 | Cks1b | 0.626 | 0 | 0 |
| C02 | Tpx2 | 0.611 | 0 | 0 |
| C02 | Smc4 | 0.609 | 0 | 0 |
| C02 | Spc24 | 0.607 | 0 | 0 |
| C02 | Ube2s | 0.591 | 0 | 0 |
| C02 | H2afv | 0.584 | 0 | 0 |
| C02 | Nucks1 | 0.562 | 0 | 0 |
| C02 | Smc2 | 0.562 | 0 | 0 |
| C02 | Hist1h1b | 0.558 | 0 | 0 |

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|---|---|---|---|---|
| C02 | Knstrn | 0.551 | 0 | 0 |
| C02 | Stmn1 | 0.546 | 0 | 0 |
| C02 | Ccna2 | 0.544 | 0 | 0 |
| C02 | 2810417H13 | 0.54 | 0 | 0 |
| C02 | Pbk | 0.54 | 0 | 0 |
| C02 | H2afz | 0.539 | 0 | 0 |
| C02 | Fam64a | 0.538 | 0 | 0 |
| C02 | Hmmr | 0.527 | 0 | 0 |
| C02 | Ccnb1 | 0.526 | 0 | 0 |
| C02 | Arl6ip1 | 0.51 | 0 | 0 |
| C02 | Aurkb | 0.501 | 0 | 0 |
| C02 | Incenp | 0.472 | 0 | 0 |
| C02 | Neil3 | 0.464 | 0 | 0 |
| C02 | Cenpe | 0.449 | 0 | 0 |
| C02 | Ccdc34 | 0.431 | 0 | 0 |
| C02 | Spc25 | 0.43 | 0 | 0 |
| C02 | Mis18bp1 | 0.424 | 0 | 0 |
| C02 | Hmgn2 | 0.422 | 0 | 0 |
| C02 | Hist1h4i | 0.422 | 0 | 0 |
| C02 | Racgap1 | 0.418 | 0 | 0 |
| C02 | Hn1 | 0.412 | 0 | 0 |
| C02 | Kif20b | 0.411 | 0 | 0 |
| C02 | Casc5 | 0.41 | 0 | 0 |
| C02 | Ncapd2 | 0.407 | 0 | 0 |
| C02 | Aldoa | -0.433 | 0 | 0 |
| C02 | Dntt | -0.512 | 1.93E-16 | 2.84E-12 |
| C03 | Fos | 2.106 | 0 | 0 |
| C03 | Jun | 1.402 | 0 | 0 |
| C03 | Zfp36 | 1.342 | 0 | 0 |
| C03 | Junb | 1.322 | 0 | 0 |
| C03 | Jund | 1.303 | 0 | 0 |
| C03 | Klf6 | 1.289 | 0 | 0 |
| C03 | Ier2 | 1.242 | 0 | 0 |
| C03 | Klf2 | 1.224 | 0 | 0 |
| C03 | Egr1 | 1.224 | 0 | 0 |
| C03 | Dusp1 | 1.215 | 0 | 0 |
| C03 | Fosb | 1.211 | 0 | 0 |
| C03 | Btg2 | 1.039 | 0 | 0 |
| C03 | Ccl4 | 0.996 | 0 | 0 |
| C03 | Rgs2 | 0.984 | 0 | 0 |
| C03 | Rgs1 | 0.943 | 0 | 0 |
| C03 | Nr4a1 | 0.86 | 0 | 0 |
| C03 | Cd69 | 0.75 | 0 | 0 |

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|---|---|---|---|---|
| C03 | Rhob | 0.686 | 0 | 0 |
| C03 | Ppp1r15a | 0.664 | 0 | 0 |
| C03 | Ier3 | 0.659 | 0 | 0 |
| C03 | Nfkbiz | 0.515 | 0 | 0 |
| C03 | Srsf5 | 0.507 | 0 | 0 |
| C03 | Pnrc1 | 0.468 | 2.05E-290 | 3.02E-286 |
| C03 | Ccl3 | 0.991 | 1.51E-276 | 2.22E-272 |
| C03 | Ubc | 0.435 | 2.14E-259 | 3.15E-255 |
| C03 | Stk17b | 0.413 | 2.22E-259 | 3.26E-255 |
| C03 | Hmgb2 | -0.701 | 2.98E-245 | 4.39E-241 |
| C03 | H2afz | -0.451 | 4.96E-245 | 7.30E-241 |
| C03 | Mcl1 | 0.41 | 1.32E-220 | 1.95E-216 |
| C03 | Birc5 | -0.627 | 3.47E-218 | 5.10E-214 |
| C03 | Ier5 | 0.45 | 1.67E-216 | 2.46E-212 |
| C03 | Mki67 | -0.57 | 1.36E-213 | 2.00E-209 |
| C03 | Dusp2 | 0.653 | 4.67E-211 | 6.88E-207 |
| C03 | Ctla2a | 0.426 | 3.53E-209 | 5.20E-205 |
| C03 | Cdca3 | -0.43 | 3.50E-204 | 5.15E-200 |
| C03 | Cdca8 | -0.522 | 1.41E-203 | 2.07E-199 |
| C03 | Ccnb2 | -0.488 | 7.92E-178 | 1.17E-173 |
| C03 | Cks2 | -0.594 | 1.16E-174 | 1.71E-170 |
| C03 | Top2a | -0.621 | 9.91E-174 | 1.46E-169 |
| C03 | Pim1 | 0.461 | 3.24E-171 | 4.76E-167 |
| C03 | Cenpf | -0.476 | 2.71E-160 | 3.99E-156 |
| C03 | Ube2c | -0.69 | 1.10E-159 | 1.63E-155 |
| C03 | 2810417H13 | -0.52 | 9.94E-142 | 1.46E-137 |
| C03 | Cenpa | -0.549 | 1.52E-119 | 2.23E-115 |
| C03 | H2afx | -0.475 | 1.90E-111 | 2.80E-107 |
| C03 | Hist1h2ap | -0.602 | 3.82E-93 | 5.63E-89 |
| C03 | Mt1 | -0.433 | 1.17E-69 | 1.72E-65 |
| C03 | Ms4a3 | -0.606 | 1.03E-55 | 1.52E-51 |
| C03 | Elane | -1.061 | 7.28E-52 | 1.07E-47 |
| C03 | Ctsg | -0.624 | 2.70E-25 | 3.97E-21 |
| C03 | Pf4 | -0.552 | 1.11E-07 | 0.0016392 |
| C03 | Mpo | -0.475 | 2.60E-07 | 0.00382543 |
| C04 | Car1 | 2.252 | 0 | 0 |
| C04 | Pf4 | 1.97 | 0 | 0 |
| C04 | Hbb-bs | 1.915 | 0 | 0 |
| C04 | Hba-a1 | 1.39 | 0 | 0 |
| C04 | Bex4 | 1.338 | 0 | 0 |
| C04 | Blvrb | 1.286 | 0 | 0 |
| C04 | Gm15915 | 1.085 | 0 | 0 |
| C04 | Apoe | 1 | 0 | 0 |

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|---|---|---|---|---|
| C04 | Tspo2 | 0.871 | 0 | 0 |
| C04 | Atpif1 | 0.844 | 0 | 0 |
| C04 | Aqp1 | 0.838 | 0 | 0 |
| C04 | Tmem14c | 0.828 | 0 | 0 |
| C04 | Klf1 | 0.816 | 0 | 0 |
| C04 | Sapcd1 | 0.753 | 0 | 0 |
| C04 | Mt2 | 0.74 | 0 | 0 |
| C04 | Gp1bb | 0.709 | 0 | 0 |
| C04 | Car2 | 0.679 | 0 | 0 |
| C04 | Mt1 | 0.677 | 0 | 0 |
| C04 | Ermap | 0.67 | 0 | 0 |
| C04 | Hmgb3 | 0.657 | 0 | 0 |
| C04 | Smim1 | 0.647 | 0 | 0 |
| C04 | Itga2b | 0.637 | 0 | 0 |
| C04 | Isg20 | 0.622 | 0 | 0 |
| C04 | Vamp5 | 0.621 | 0 | 0 |
| C04 | Mfsd2b | 0.617 | 0 | 0 |
| C04 | Cd9 | 0.6 | 0 | 0 |
| C04 | Ces2g | 0.595 | 0 | 0 |
| C04 | Gata1 | 0.59 | 0 | 0 |
| C04 | Unc119 | 0.572 | 0 | 0 |
| C04 | Gstm5 | 0.57 | 0 | 0 |
| C04 | Sdsl | 0.538 | 0 | 0 |
| C04 | Cited4 | 0.537 | 0 | 0 |
| C04 | Mrpl52 | 0.523 | 0 | 0 |
| C04 | H2-Q7 | 0.517 | 0 | 0 |
| C04 | Hemgn | 0.515 | 0 | 0 |
| C04 | F2r | 0.508 | 0 | 0 |
| C04 | Gypa | 0.491 | 0 | 0 |
| C04 | Hmbs | 0.487 | 0 | 0 |
| C04 | Nt5c3 | 0.478 | 0 | 0 |
| C04 | Tspan33 | 0.471 | 0 | 0 |
| C04 | Creg1 | 0.464 | 0 | 0 |
| C04 | Hdgf | 0.463 | 0 | 0 |
| C04 | Samd14 | 0.447 | 0 | 0 |
| C04 | Khk | 0.447 | 0 | 0 |
| C04 | Tnfaip2 | 0.436 | 0 | 0 |
| C04 | Rfesd | 0.429 | 0 | 0 |
| C04 | Slc14a1 | 0.429 | 0 | 0 |
| C04 | Smim5 | 0.425 | 0 | 0 |
| C04 | Gp5 | 0.416 | 0 | 0 |
| C04 | Prkar2b | 0.412 | 0 | 0 |
| C04 | Sdpr | 0.41 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| C04 | Lyl1 | -0.477 | 0 | 0 |
| C04 | Tm6sf1 | -0.481 | 0 | 0 |
| C04 | Rcsd1 | -0.489 | 0 | 0 |
| C04 | Gm2a | -0.491 | 0 | 0 |
| C04 | Sh3bgrl3 | -0.495 | 0 | 0 |
| C04 | Napsa | -0.5 | 0 | 0 |
| C04 | Marcksl1 | -0.521 | 0 | 0 |
| C04 | Spi1 | -0.523 | 0 | 0 |
| C04 | Tmem176b | -0.546 | 0 | 0 |
| C04 | Pgam1 | -0.558 | 0 | 0 |
| C04 | Coro1a | -0.562 | 0 | 0 |
| C04 | Bex6 | -0.566 | 0 | 0 |
| C04 | Serpinb1a | -0.568 | 0 | 0 |
| C04 | Adgrl4 | -0.57 | 0 | 0 |
| C04 | Cd27 | -0.578 | 0 | 0 |
| C04 | Egfl7 | -0.601 | 0 | 0 |
| C04 | Lsp1 | -0.603 | 0 | 0 |
| C04 | Pkm | -0.61 | 0 | 0 |
| C04 | Fkbp1a | -0.619 | 0 | 0 |
| C04 | Igfbp4 | -0.619 | 0 | 0 |
| C04 | Satb1 | -0.634 | 0 | 0 |
| C04 | Sell | -0.642 | 0 | 0 |
| C04 | Lcp1 | -0.705 | 0 | 0 |
| C04 | Tyrobp | -0.724 | 0 | 0 |
| C04 | Flt3 | -0.763 | 0 | 0 |
| C04 | Cd53 | -0.776 | 0 | 0 |
| C04 | BC035044 | -0.781 | 0 | 0 |
| C04 | Limd2 | -0.848 | 0 | 0 |
| C04 | Ramp1 | -0.926 | 0 | 0 |
| C04 | Sox4 | -0.947 | 0 | 0 |
| C04 | Ccl9 | -0.96 | 0 | 0 |
| C04 | Cd52 | -1.002 | 0 | 0 |
| C04 | Emb | -1.038 | 0 | 0 |
| C04 | Cd34 | -1.139 | 0 | 0 |
| C04 | Ifitm1 | -1.164 | 0 | 0 |
| C04 | H2afy | -1.398 | 0 | 0 |
| C04 | Prtn3 | -1.523 | 0 | 0 |
| C04 | Tmem176a | -0.474 | 3.62E-307 | 5.33E-303 |
| C04 | Gp9 | 0.417 | 1.54E-306 | 2.27E-302 |
| C04 | Fam69b | -0.482 | 6.37E-297 | 9.38E-293 |
| C04 | Gm5111 | -0.491 | 1.44E-286 | 2.13E-282 |
| C04 | Hlf | -0.634 | 2.96E-286 | 4.36E-282 |
| C04 | Pou2f2 | -0.46 | 8.34E-286 | 1.23E-281 |

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|---|---|---|---|---|
| C04 | Glrx5 | 0.651 | 1.68E-284 | 2.48E-280 |
| C04 | Rgs2 | -0.595 | 6.47E-283 | 9.53E-279 |
| C04 | Wfdc17 | -0.891 | 5.43E-276 | 7.99E-272 |
| C04 | Gata2 | 0.443 | 3.25E-274 | 4.78E-270 |
| C04 | Gpr171 | -0.473 | 1.23E-273 | 1.80E-269 |
| C04 | Clec4d | 0.453 | 1.64E-273 | 2.41E-269 |
| C04 | Fyb | 0.407 | 3.19E-271 | 4.69E-267 |
| C04 | Plac8 | -0.62 | 3.62E-267 | 5.33E-263 |
| C04 | Fxyd5 | -0.409 | 7.54E-266 | 1.11E-261 |
| C04 | Gclm | 0.456 | 4.18E-265 | 6.16E-261 |
| C04 | Rexo2 | 0.418 | 4.09E-260 | 6.03E-256 |
| C04 | Anxa1 | -0.419 | 6.43E-260 | 9.46E-256 |
| C04 | Alad | 0.542 | 2.60E-259 | 3.83E-255 |
| C04 | Gimap6 | -0.551 | 4.42E-259 | 6.51E-255 |
| C04 | Fam107b | -0.408 | 5.77E-259 | 8.49E-255 |
| C04 | Phgdh | -0.418 | 9.17E-257 | 1.35E-252 |
| C04 | Mns1 | 0.478 | 6.98E-250 | 1.03E-245 |
| C04 | Ifi203 | -0.452 | 1.34E-249 | 1.98E-245 |
| C04 | Ms4a6c | -0.454 | 1.34E-248 | 1.97E-244 |
| C04 | Pbx1 | 0.824 | 3.21E-243 | 4.73E-239 |
| C04 | Necap2 | 0.434 | 3.83E-242 | 5.64E-238 |
| C04 | S100a11 | -0.409 | 5.29E-241 | 7.78E-237 |
| C04 | Rgs10 | 0.56 | 1.13E-237 | 1.66E-233 |
| C04 | Myl10 | -0.653 | 3.22E-234 | 4.74E-230 |
| C04 | Mpo | -1.26 | 5.00E-225 | 7.36E-221 |
| C04 | Gstm1 | -0.427 | 3.81E-221 | 5.60E-217 |
| C04 | Pim1 | -0.507 | 3.43E-208 | 5.05E-204 |
| C04 | Gcnt2 | -0.424 | 7.05E-205 | 1.04E-200 |
| C04 | Dntt | -1.258 | 8.34E-194 | 1.23E-189 |
| C04 | Cd48 | -0.433 | 1.37E-193 | 2.02E-189 |
| C04 | Cks2 | 0.444 | 6.35E-189 | 9.34E-185 |
| C04 | Irf8 | -0.494 | 2.31E-188 | 3.40E-184 |
| C04 | Ypel3 | -0.411 | 1.39E-180 | 2.04E-176 |
| C04 | Pdcd4 | 0.528 | 5.18E-180 | 7.62E-176 |
| C04 | Clec12a | -0.447 | 1.66E-173 | 2.44E-169 |
| C04 | Ly6a | -0.46 | 4.65E-170 | 6.84E-166 |
| C04 | Gimap1 | -0.422 | 1.56E-162 | 2.29E-158 |
| C04 | Dusp2 | -0.413 | 1.39E-155 | 2.04E-151 |
| C04 | Rap1b | 0.605 | 1.12E-132 | 1.65E-128 |
| C04 | Ctsg | -1.466 | 1.29E-125 | 1.90E-121 |
| C04 | Ltb | -0.44 | 1.27E-123 | 1.86E-119 |
| C04 | Ccl4 | -0.467 | 6.26E-107 | 9.21E-103 |
| C04 | Isg15 | 0.497 | 1.57E-90 | 2.31E-86 |

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|---|---|---|---|---|
| C04 | Hbb-bt | 1.506 | 9.50E-75 | 1.40E-70 |
| C04 | Klf2 | -0.43 | 2.15E-57 | 3.17E-53 |
| C04 | Fos | -0.704 | 1.41E-55 | 2.08E-51 |
| C04 | Ms4a3 | -0.505 | 3.49E-15 | 5.14E-11 |
| C04 | S100a8 | -0.423 | 2.50E-12 | 3.68E-08 |
| C05 | Elane | 2.933 | 0 | 0 |
| C05 | Ctsg | 2.104 | 0 | 0 |
| C05 | Mpo | 2.092 | 0 | 0 |
| C05 | Ms4a3 | 2.054 | 0 | 0 |
| C05 | Prtn3 | 1.771 | 0 | 0 |
| C05 | Ly6c2 | 1.471 | 0 | 0 |
| C05 | Mt1 | 1.269 | 0 | 0 |
| C05 | Ap3s1 | 1.231 | 0 | 0 |
| C05 | Hp | 1.174 | 0 | 0 |
| C05 | Plac8 | 1.097 | 0 | 0 |
| C05 | Sdf2l1 | 1.025 | 0 | 0 |
| C05 | Lgals1 | 1.023 | 0 | 0 |
| C05 | Calr | 0.854 | 0 | 0 |
| C05 | Anxa3 | 0.854 | 0 | 0 |
| C05 | Cst7 | 0.844 | 0 | 0 |
| C05 | Lcn2 | 0.835 | 0 | 0 |
| C05 | Rgcc | 0.821 | 0 | 0 |
| C05 | Trem3 | 0.816 | 0 | 0 |
| C05 | Clec12a | 0.813 | 0 | 0 |
| C05 | Pgam1 | 0.808 | 0 | 0 |
| C05 | Ctsz | 0.803 | 0 | 0 |
| C05 | Hspa5 | 0.788 | 0 | 0 |
| C05 | Irf8 | 0.779 | 0 | 0 |
| C05 | Hsp90b1 | 0.755 | 0 | 0 |
| C05 | Manf | 0.747 | 0 | 0 |
| C05 | Slpi | 0.735 | 0 | 0 |
| C05 | Cycs | 0.71 | 0 | 0 |
| C05 | Tspo | 0.689 | 0 | 0 |
| C05 | Uqcrq | 0.689 | 0 | 0 |
| C05 | F13a1 | 0.687 | 0 | 0 |
| C05 | Msrb1 | 0.644 | 0 | 0 |
| C05 | Prss57 | 0.639 | 0 | 0 |
| C05 | Gng12 | 0.635 | 0 | 0 |
| C05 | Tyrobp | 0.634 | 0 | 0 |
| C05 | Gsr | 0.629 | 0 | 0 |
| C05 | Ms4a6c | 0.626 | 0 | 0 |
| C05 | Hspd1 | 0.622 | 0 | 0 |
| C05 | Lrrc59 | 0.604 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| C05 | Nhp2 | 0.602 | 0 | 0 |
| C05 | Mif | 0.597 | 0 | 0 |
| C05 | Atp5g1 | 0.59 | 0 | 0 |
| C05 | P4hb | 0.589 | 0 | 0 |
| C05 | Srm | 0.572 | 0 | 0 |
| C05 | Pdia6 | 0.57 | 0 | 0 |
| C05 | Timm13 | 0.569 | 0 | 0 |
| C05 | Rps27l | 0.567 | 0 | 0 |
| C05 | Erp29 | 0.562 | 0 | 0 |
| C05 | Ccr2 | 0.562 | 0 | 0 |
| C05 | Rrm2 | 0.558 | 0 | 0 |
| C05 | Tomm5 | 0.557 | 0 | 0 |
| C05 | Tuba4a | 0.553 | 0 | 0 |
| C05 | Ssr2 | 0.552 | 0 | 0 |
| C05 | Sec61b | 0.546 | 0 | 0 |
| C05 | Ldha | 0.544 | 0 | 0 |
| C05 | Fkbp11 | 0.543 | 0 | 0 |
| C05 | Ssr1 | 0.541 | 0 | 0 |
| C05 | Sec61g | 0.539 | 0 | 0 |
| C05 | Dmkn | 0.538 | 0 | 0 |
| C05 | Mrpl33 | 0.536 | 0 | 0 |
| C05 | Dbi | 0.536 | 0 | 0 |
| C05 | Nme1 | 0.512 | 0 | 0 |
| C05 | Gpx1 | 0.508 | 0 | 0 |
| C05 | Ranbp1 | 0.504 | 0 | 0 |
| C05 | Mrpl20 | 0.502 | 0 | 0 |
| C05 | Igsf6 | 0.498 | 0 | 0 |
| C05 | Ran | 0.497 | 0 | 0 |
| C05 | Rpn1 | 0.493 | 0 | 0 |
| C05 | Tfrc | 0.493 | 0 | 0 |
| C05 | Hspe1 | 0.493 | 0 | 0 |
| C05 | Ostc | 0.484 | 0 | 0 |
| C05 | Mrpl12 | 0.483 | 0 | 0 |
| C05 | Uqcr11 | 0.483 | 0 | 0 |
| C05 | C1qbp | 0.478 | 0 | 0 |
| C05 | Bola2 | 0.477 | 0 | 0 |
| C05 | Mydgf | 0.476 | 0 | 0 |
| C05 | Wfdc21 | 0.475 | 0 | 0 |
| C05 | Tmem97 | 0.472 | 0 | 0 |
| C05 | Tmed2 | 0.472 | 0 | 0 |
| C05 | Cox5a | 0.464 | 0 | 0 |
| C05 | 2700094K13I | 0.464 | 0 | 0 |
| C05 | F630028O10 | 0.456 | 0 | 0 |

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|---|---|---|---|---|
| C05 | Baz1a | 0.452 | 0 | 0 |
| C05 | Gapdh | 0.447 | 0 | 0 |
| C05 | Alas1 | 0.443 | 0 | 0 |
| C05 | Uqcr10 | 0.442 | 0 | 0 |
| C05 | Ybx1 | 0.439 | 0 | 0 |
| C05 | Npm3 | 0.428 | 0 | 0 |
| C05 | Shfm1 | 0.427 | 0 | 0 |
| C05 | Atp8b4 | 0.426 | 0 | 0 |
| C05 | Eif5a | 0.42 | 0 | 0 |
| C05 | H2-K1 | -0.478 | 0 | 0 |
| C05 | B2m | -0.489 | 0 | 0 |
| C05 | Sepw1 | -0.559 | 0 | 0 |
| C05 | Crip1 | -0.574 | 0 | 0 |
| C05 | Ptprcap | -0.584 | 0 | 0 |
| C05 | Tspan13 | -0.616 | 0 | 0 |
| C05 | Meis1 | -0.681 | 0 | 0 |
| C05 | H2-Q7 | -0.694 | 0 | 0 |
| C05 | Adgrg1 | -0.758 | 0 | 0 |
| C05 | Tsc22d1 | -0.762 | 0 | 0 |
| C05 | Gimap1 | -0.765 | 0 | 0 |
| C05 | Malat1 | -0.913 | 0 | 0 |
| C05 | Ctla2a | -1.377 | 0 | 0 |
| C05 | Car2 | -1.521 | 0 | 0 |
| C05 | Emb | 0.578 | 4.71E-305 | 6.93E-301 |
| C05 | Smdt1 | 0.407 | 3.07E-298 | 4.51E-294 |
| C05 | Nrgn | -0.641 | 3.25E-298 | 4.78E-294 |
| C05 | Set | 0.431 | 3.22E-297 | 4.75E-293 |
| C05 | Cacybp | 0.478 | 4.84E-296 | 7.13E-292 |
| C05 | Cox7a2l | -0.456 | 5.96E-293 | 8.77E-289 |
| C05 | Vamp5 | -0.708 | 3.14E-292 | 4.63E-288 |
| C05 | Serp1 | 0.454 | 5.72E-290 | 8.43E-286 |
| C05 | Hsp90aa1 | 0.433 | 6.77E-290 | 9.97E-286 |
| C05 | Lyar | 0.508 | 8.78E-287 | 1.29E-282 |
| C05 | Lman2 | 0.416 | 1.90E-279 | 2.79E-275 |
| C05 | Canx | 0.428 | 7.97E-277 | 1.17E-272 |
| C05 | Sox4 | -0.75 | 1.48E-272 | 2.18E-268 |
| C05 | Fabp5 | 0.518 | 3.67E-271 | 5.40E-267 |
| C05 | Atp5k | 0.407 | 4.68E-271 | 6.89E-267 |
| C05 | Odc1 | 0.469 | 1.75E-269 | 2.57E-265 |
| C05 | Txnip | -0.794 | 1.11E-268 | 1.63E-264 |
| C05 | Paip2 | -0.446 | 1.52E-268 | 2.24E-264 |
| C05 | Ybx3 | 0.446 | 2.72E-268 | 4.00E-264 |
| C05 | 2810417H13 | 0.523 | 1.07E-267 | 1.58E-263 |

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|---|---|---|---|---|
| C05 | Med21 | 0.452 | 3.97E-264 | 5.84E-260 |
| C05 | Gimap6 | -0.633 | 2.72E-263 | 4.00E-259 |
| C05 | Tspan32 | -0.551 | 2.23E-260 | 3.29E-256 |
| C05 | Tmem176b | -0.544 | 1.52E-254 | 2.23E-250 |
| C05 | Ypel3 | -0.601 | 8.22E-245 | 1.21E-240 |
| C05 | 1-Sep | -0.525 | 7.10E-243 | 1.05E-238 |
| C05 | Gltscr2 | -0.442 | 4.59E-242 | 6.75E-238 |
| C05 | Zfp36l2 | -0.513 | 2.50E-239 | 3.69E-235 |
| C05 | Eno1 | 0.446 | 4.46E-237 | 6.56E-233 |
| C05 | Pdia3 | 0.415 | 3.61E-234 | 5.31E-230 |
| C05 | Dut | 0.409 | 1.64E-228 | 2.42E-224 |
| C05 | Pnrc1 | -0.547 | 1.35E-226 | 1.98E-222 |
| C05 | S100a10 | -0.429 | 8.97E-225 | 1.32E-220 |
| C05 | Akap13 | -0.488 | 1.36E-224 | 2.00E-220 |
| C05 | Tmed3 | 0.414 | 4.31E-224 | 6.34E-220 |
| C05 | Hlf | -0.683 | 4.43E-218 | 6.52E-214 |
| C05 | Bcl11a | -0.518 | 6.61E-215 | 9.72E-211 |
| C05 | Angpt1 | -0.522 | 4.16E-214 | 6.12E-210 |
| C05 | Dapp1 | -0.505 | 4.55E-203 | 6.70E-199 |
| C05 | Ogt | -0.503 | 7.30E-202 | 1.07E-197 |
| C05 | Myct1 | -0.529 | 3.35E-200 | 4.93E-196 |
| C05 | Gcnt2 | -0.508 | 1.45E-199 | 2.13E-195 |
| C05 | Pnisr | -0.435 | 8.27E-187 | 1.22E-182 |
| C05 | Pla2g16 | -0.434 | 4.59E-181 | 6.75E-177 |
| C05 | Msi2 | -0.474 | 6.69E-181 | 9.85E-177 |
| C05 | Gm5111 | -0.466 | 2.07E-180 | 3.05E-176 |
| C05 | Lmo2 | -0.418 | 3.25E-173 | 4.78E-169 |
| C05 | Zbtb20 | -0.453 | 4.19E-168 | 6.16E-164 |
| C05 | Jund | -0.772 | 2.37E-167 | 3.50E-163 |
| C05 | Rab38 | -0.473 | 4.21E-167 | 6.19E-163 |
| C05 | Pbx1 | -0.636 | 1.01E-166 | 1.49E-162 |
| C05 | Tsc22d3 | -0.523 | 9.13E-163 | 1.34E-158 |
| C05 | Mef2c | -0.446 | 2.82E-161 | 4.15E-157 |
| C05 | Dstn | 0.531 | 1.50E-159 | 2.21E-155 |
| C05 | Nrip1 | -0.443 | 5.44E-159 | 8.00E-155 |
| C05 | Fcer1g | 0.438 | 7.05E-159 | 1.04E-154 |
| C05 | Hhex | -0.412 | 4.96E-157 | 7.30E-153 |
| C05 | H2-Q4 | -0.431 | 8.82E-155 | 1.30E-150 |
| C05 | H2-Q6 | -0.433 | 2.50E-153 | 3.68E-149 |
| C05 | Rbp1 | -0.456 | 4.83E-153 | 7.11E-149 |
| C05 | Ikzf2 | -0.406 | 3.70E-148 | 5.45E-144 |
| C05 | Ptpre | -0.433 | 1.04E-147 | 1.53E-143 |
| C05 | Adgrl4 | -0.459 | 1.43E-147 | 2.11E-143 |

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|---|---|---|---|---|
| C05 | Rgs1 | -0.575 | 6.43E-147 | 9.46E-143 |
| C05 | Sdsl | -0.484 | 1.82E-141 | 2.68E-137 |
| C05 | Gata2 | -0.471 | 3.88E-139 | 5.71E-135 |
| C05 | Myl10 | -0.607 | 1.52E-138 | 2.24E-134 |
| C05 | Egfl7 | -0.433 | 4.26E-136 | 6.26E-132 |
| C05 | Ltb | -0.497 | 1.23E-135 | 1.81E-131 |
| C05 | Cbfa2t3 | -0.417 | 6.45E-135 | 9.50E-131 |
| C05 | Samsn1 | -0.409 | 1.59E-130 | 2.35E-126 |
| C05 | Apoe | -0.798 | 2.40E-128 | 3.54E-124 |
| C05 | Gm10709 | 0.418 | 9.48E-119 | 1.40E-114 |
| C05 | Glul | -0.425 | 3.82E-118 | 5.63E-114 |
| C05 | Ifi203 | -0.407 | 1.43E-117 | 2.11E-113 |
| C05 | Serpina3g | -0.576 | 1.73E-108 | 2.55E-104 |
| C05 | Jun | -0.788 | 8.22E-108 | 1.21E-103 |
| C05 | Cd34 | -0.407 | 2.02E-103 | 2.97E-99 |
| C05 | Gstm1 | 0.442 | 1.58E-99 | 2.32E-95 |
| C05 | Shisa5 | -0.43 | 2.00E-97 | 2.94E-93 |
| C05 | Pik3ip1 | -0.409 | 3.73E-88 | 5.50E-84 |
| C05 | Egr1 | -0.56 | 1.27E-87 | 1.87E-83 |
| C05 | Xist | -0.838 | 1.84E-79 | 2.71E-75 |
| C05 | Dntt | -0.752 | 5.68E-63 | 8.36E-59 |
| C05 | Ly6a | -0.428 | 1.22E-59 | 1.80E-55 |
| C05 | Btg2 | -0.473 | 1.73E-58 | 2.55E-54 |
| C05 | Blvrb | -0.454 | 1.99E-52 | 2.93E-48 |
| C05 | Fos | -1.042 | 7.60E-49 | 1.12E-44 |
| C05 | Fosb | -0.482 | 1.16E-41 | 1.70E-37 |
| C05 | Pf4 | -0.752 | 3.07E-38 | 4.52E-34 |
| C05 | Hbb-bt | -0.92 | 3.43E-33 | 5.05E-29 |
| C05 | Dusp1 | -0.457 | 5.30E-32 | 7.80E-28 |
| C05 | Zfp36 | -0.461 | 9.22E-22 | 1.36E-17 |
| C05 | Ier2 | -0.461 | 5.42E-20 | 7.98E-16 |
| C05 | Klf6 | -0.427 | 2.54E-14 | 3.73E-10 |
| C05 | S100a9 | 1.439 | 5.35E-09 | 7.88E-05 |
| C06 | Dntt | 2.05 | 0 | 0 |
| C06 | Ly6d | 1.843 | 0 | 0 |
| C06 | Ebf1 | 1.504 | 0 | 0 |
| C06 | Myl10 | 1.397 | 0 | 0 |
| C06 | Cd79a | 1.145 | 0 | 0 |
| C06 | Igll1 | 1.106 | 0 | 0 |
| C06 | Bfsp2 | 1.024 | 0 | 0 |
| C06 | Vpreb3 | 1.012 | 0 | 0 |
| C06 | Mzb1 | 0.973 | 0 | 0 |
| C06 | Crip1 | 0.896 | 0 | 0 |

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|---|---|---|---|---|
| C06 | Cox6a2 | 0.8 | 0 | 0 |
| C06 | Blnk | 0.759 | 0 | 0 |
| C06 | Myl4 | 0.752 | 0 | 0 |
| C06 | Irf8 | 0.747 | 0 | 0 |
| C06 | Xrcc6 | 0.722 | 0 | 0 |
| C06 | Il7r | 0.703 | 0 | 0 |
| C06 | Cnn3 | 0.686 | 0 | 0 |
| C06 | Arpp21 | 0.655 | 0 | 0 |
| C06 | Clec12a | 0.652 | 0 | 0 |
| C06 | Mgst2 | 0.639 | 0 | 0 |
| C06 | Il12a | 0.629 | 0 | 0 |
| C06 | H2afy | 0.619 | 0 | 0 |
| C06 | Tpm4 | 0.56 | 0 | 0 |
| C06 | Pgls | 0.557 | 0 | 0 |
| C06 | Tmem108 | 0.53 | 0 | 0 |
| C06 | Evl | 0.53 | 0 | 0 |
| C06 | Vpreb2 | 0.528 | 0 | 0 |
| C06 | Notch1 | 0.497 | 0 | 0 |
| C06 | Cmah | 0.486 | 0 | 0 |
| C06 | Ly86 | 0.472 | 0 | 0 |
| C06 | Rag1 | 0.472 | 0 | 0 |
| C06 | Lck | 0.416 | 0 | 0 |
| C06 | Rab38 | -0.72 | 0 | 0 |
| C06 | Vamp8 | -0.743 | 0 | 0 |
| C06 | Lmo2 | -0.775 | 0 | 0 |
| C06 | Vamp5 | -0.824 | 0 | 0 |
| C06 | Cd63 | -1.045 | 0 | 0 |
| C06 | Car2 | -1.276 | 0 | 0 |
| C06 | Prtn3 | -1.41 | 0 | 0 |
| C06 | Plac8 | 0.612 | 4.71E-299 | 6.94E-295 |
| C06 | Tmsb10 | 0.467 | 6.51E-290 | 9.59E-286 |
| C06 | Cd52 | 0.648 | 3.41E-280 | 5.03E-276 |
| C06 | Serpina3g | -0.837 | 7.18E-276 | 1.06E-271 |
| C06 | Ifitm2 | -0.468 | 7.05E-268 | 1.04E-263 |
| C06 | Dapp1 | -0.613 | 3.24E-267 | 4.77E-263 |
| C06 | Satb1 | 0.562 | 5.68E-264 | 8.37E-260 |
| C06 | Vpreb1 | 1.127 | 2.55E-261 | 3.76E-257 |
| C06 | Tmem121 | 0.422 | 6.84E-256 | 1.01E-251 |
| C06 | Cdv3 | 0.667 | 5.21E-252 | 7.68E-248 |
| C06 | Egfl7 | 0.531 | 8.39E-236 | 1.23E-231 |
| C06 | Ifitm3 | -0.619 | 1.27E-229 | 1.88E-225 |
| C06 | Ctla2a | -0.758 | 6.62E-220 | 9.74E-216 |
| C06 | Myct1 | -0.575 | 8.33E-220 | 1.23E-215 |

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|---|---|---|---|---|
| C06 | Creg1 | -0.514 | 2.76E-213 | 4.06E-209 |
| C06 | Flt3 | 0.486 | 6.30E-207 | 9.27E-203 |
| C06 | Sdsl | -0.578 | 2.39E-206 | 3.52E-202 |
| C06 | 4930519L02F | -0.479 | 4.66E-202 | 6.86E-198 |
| C06 | Gata2 | -0.542 | 4.46E-191 | 6.56E-187 |
| C06 | Hlf | -0.645 | 1.84E-183 | 2.71E-179 |
| C06 | Adgrg1 | -0.53 | 4.40E-183 | 6.47E-179 |
| C06 | Mef2c | 0.447 | 1.98E-182 | 2.91E-178 |
| C06 | Gclm | -0.487 | 5.87E-182 | 8.64E-178 |
| C06 | Cdkn1a | 0.418 | 1.32E-178 | 1.94E-174 |
| C06 | Atpif1 | -0.472 | 5.01E-172 | 7.37E-168 |
| C06 | Angpt1 | -0.504 | 1.22E-171 | 1.80E-167 |
| C06 | Atp1b3 | 0.642 | 1.58E-168 | 2.32E-164 |
| C06 | Parp1 | 0.523 | 7.44E-168 | 1.10E-163 |
| C06 | Ikzf2 | -0.465 | 1.13E-167 | 1.67E-163 |
| C06 | Cd9 | -0.489 | 5.91E-165 | 8.70E-161 |
| C06 | BC035044 | 0.435 | 8.90E-164 | 1.31E-159 |
| C06 | Apoe | -0.99 | 1.18E-162 | 1.73E-158 |
| C06 | Gng11 | -0.439 | 2.03E-160 | 2.98E-156 |
| C06 | Vim | -0.551 | 1.15E-159 | 1.70E-155 |
| C06 | Nfe2 | -0.415 | 1.27E-158 | 1.88E-154 |
| C06 | Mta3 | 0.447 | 3.64E-158 | 5.36E-154 |
| C06 | Rgcc | 0.443 | 1.71E-157 | 2.52E-153 |
| C06 | Anxa5 | -0.415 | 1.59E-155 | 2.34E-151 |
| C06 | Adgrg3 | 0.411 | 1.38E-152 | 2.03E-148 |
| C06 | Ctr9 | 0.451 | 2.94E-148 | 4.32E-144 |
| C06 | Cd37 | 0.436 | 8.54E-147 | 1.26E-142 |
| C06 | Cd93 | 0.433 | 9.09E-147 | 1.34E-142 |
| C06 | Krt18 | -0.419 | 8.40E-142 | 1.24E-137 |
| C06 | Gimap6 | 0.42 | 5.36E-137 | 7.89E-133 |
| C06 | Ifitm1 | -0.656 | 7.56E-137 | 1.11E-132 |
| C06 | Rasgrp2 | 0.406 | 4.05E-133 | 5.96E-129 |
| C06 | Rbp1 | -0.443 | 8.23E-133 | 1.21E-128 |
| C06 | Ccnd2 | 0.408 | 2.17E-124 | 3.19E-120 |
| C06 | Adgrl4 | -0.415 | 1.03E-121 | 1.52E-117 |
| C06 | Hmgb3 | -0.495 | 2.77E-119 | 4.07E-115 |
| C06 | Calr | -0.423 | 2.14E-108 | 3.15E-104 |
| C06 | Meis1 | -0.406 | 7.84E-105 | 1.15E-100 |
| C06 | Pbx1 | -0.509 | 3.77E-91 | 5.55E-87 |
| C06 | Cd79b | 0.469 | 1.81E-90 | 2.66E-86 |
| C06 | Cd69 | 0.455 | 1.37E-85 | 2.01E-81 |
| C06 | Ms4a3 | -0.799 | 3.70E-81 | 5.45E-77 |
| C06 | Pf4 | -0.8 | 5.20E-76 | 7.65E-72 |

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|---|---|---|---|---|
| C06 | Mpo | -1.072 | 8.31E-74 | 1.22E-69 |
| C06 | Pnp | 0.544 | 1.87E-70 | 2.76E-66 |
| C06 | Mt1 | -0.556 | 1.73E-63 | 2.54E-59 |
| C06 | Ccl9 | -0.486 | 1.81E-58 | 2.67E-54 |
| C06 | Rgs1 | -0.425 | 2.47E-58 | 3.64E-54 |
| C06 | Chchd10 | 1.06 | 5.36E-49 | 7.89E-45 |
| C06 | Hbb-bt | -0.907 | 1.27E-46 | 1.87E-42 |
| C06 | Dusp1 | -0.465 | 1.25E-42 | 1.83E-38 |
| C06 | Ctsg | -1.139 | 2.29E-39 | 3.37E-35 |
| C06 | Elane | -1.176 | 4.61E-35 | 6.79E-31 |
| C06 | Fos | -0.626 | 2.64E-15 | 3.88E-11 |
| C08 | Vpreb1 | 2.766 | 0 | 0 |
| C08 | Igll1 | 2.647 | 0 | 0 |
| C08 | Ebf1 | 2.548 | 0 | 0 |
| C08 | Vpreb3 | 2.493 | 0 | 0 |
| C08 | Cd79a | 2.251 | 0 | 0 |
| C08 | Mzb1 | 1.989 | 0 | 0 |
| C08 | Bfsp2 | 1.918 | 0 | 0 |
| C08 | Blnk | 1.352 | 0 | 0 |
| C08 | Ly6d | 1.085 | 0 | 0 |
| C08 | Id3 | 1.054 | 0 | 0 |
| C08 | Pde2a | 0.976 | 0 | 0 |
| C08 | Cplx2 | 0.935 | 0 | 0 |
| C08 | Pax5 | 0.872 | 0 | 0 |
| C08 | Vpreb2 | 0.796 | 0 | 0 |
| C08 | Cecr2 | 0.779 | 0 | 0 |
| C08 | Pou2af1 | 0.757 | 0 | 0 |
| C08 | Slamf6 | 0.743 | 0 | 0 |
| C08 | Arl5c | 0.721 | 0 | 0 |
| C08 | Il7r | 0.707 | 0 | 0 |
| C08 | Cd19 | 0.706 | 0 | 0 |
| C08 | Akap12 | 0.696 | 0 | 0 |
| C08 | Sdc4 | 0.635 | 0 | 0 |
| C08 | Lef1 | 0.627 | 0 | 0 |
| C08 | Hes1 | 0.495 | 0 | 0 |
| C08 | Rnase12 | 0.487 | 0 | 0 |
| C08 | Gm37065 | 0.457 | 0 | 0 |
| C08 | Rag1 | 0.436 | 0 | 0 |
| C08 | Gfra2 | 0.426 | 0 | 0 |
| C08 | Dlg2 | 0.5 | 5.85E-306 | 8.62E-302 |
| C08 | Tmem108 | 0.479 | 5.96E-239 | 8.77E-235 |
| C08 | Cnn3 | 0.841 | 2.73E-215 | 4.01E-211 |
| C08 | Rras2 | 0.631 | 2.96E-214 | 4.36E-210 |

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|---|---|---|---|---|
| C08 | Atp1b1 | 0.421 | 3.17E-212 | 4.67E-208 |
| C08 | Gimap4 | 0.446 | 6.52E-192 | 9.59E-188 |
| C08 | Arpp21 | 0.463 | 7.92E-187 | 1.17E-182 |
| C08 | E2f2 | 0.477 | 2.60E-161 | 3.82E-157 |
| C08 | Bok | 0.417 | 1.54E-149 | 2.26E-145 |
| C08 | Tifab | 0.419 | 7.75E-149 | 1.14E-144 |
| C08 | Cd79b | 1.397 | 5.40E-148 | 7.95E-144 |
| C08 | Chchd10 | 2.109 | 1.81E-146 | 2.66E-142 |
| C08 | Ets1 | 0.445 | 9.29E-143 | 1.37E-138 |
| C08 | Gtse1 | 0.463 | 4.65E-137 | 6.85E-133 |
| C08 | Dntt | 1.314 | 4.18E-134 | 6.16E-130 |
| C08 | Tpm4 | 0.723 | 2.06E-132 | 3.03E-128 |
| C08 | Sapcd1 | 0.469 | 7.07E-124 | 1.04E-119 |
| C08 | Crip1 | 1.364 | 1.71E-120 | 2.51E-116 |
| C08 | Ptma | 0.751 | 6.33E-119 | 9.31E-115 |
| C08 | Rrm2 | 1.098 | 9.83E-117 | 1.45E-112 |
| C08 | Ucp2 | 1.216 | 1.13E-116 | 1.67E-112 |
| C08 | Hmgb1 | 1.166 | 4.14E-116 | 6.09E-112 |
| C08 | Fam53b | 0.855 | 5.53E-116 | 8.14E-112 |
| C08 | Marcks | 0.458 | 9.96E-115 | 1.47E-110 |
| C08 | Ccnd3 | 1.301 | 1.79E-112 | 2.64E-108 |
| C08 | Lmo2 | -1.471 | 5.74E-112 | 8.44E-108 |
| C08 | 2810417H13 | 1.321 | 8.14E-110 | 1.20E-105 |
| C08 | Pkig | 0.911 | 1.36E-105 | 2.00E-101 |
| C08 | Traf4 | 0.443 | 4.39E-98 | 6.47E-94 |
| C08 | Dck | 0.665 | 2.44E-96 | 3.60E-92 |
| C08 | Snx2 | 0.928 | 1.28E-95 | 1.89E-91 |
| C08 | Pnp | 1.028 | 2.83E-94 | 4.16E-90 |
| C08 | Prtn3 | -1.957 | 1.72E-93 | 2.53E-89 |
| C08 | Rasgrp2 | 0.921 | 4.09E-93 | 6.03E-89 |
| C08 | Lrmp | 0.871 | 4.93E-90 | 7.26E-86 |
| C08 | Ppia | 0.498 | 5.85E-90 | 8.61E-86 |
| C08 | Gmfg | 0.658 | 5.06E-88 | 7.45E-84 |
| C08 | Ethe1 | 0.883 | 5.46E-88 | 8.03E-84 |
| C08 | Ifitm3 | -1.159 | 1.66E-87 | 2.45E-83 |
| C08 | Atp1b3 | 0.85 | 1.11E-86 | 1.63E-82 |
| C08 | Cd34 | -1.281 | 4.15E-86 | 6.11E-82 |
| C08 | Gpx1 | -0.762 | 6.88E-86 | 1.01E-81 |
| C08 | Myl4 | 0.519 | 7.01E-86 | 1.03E-81 |
| C08 | Ctla2a | -1.492 | 9.83E-86 | 1.45E-81 |
| C08 | Ppp1ca | 0.666 | 3.32E-85 | 4.89E-81 |
| C08 | Myl10 | 0.999 | 1.86E-84 | 2.74E-80 |
| C08 | Srgn | -0.801 | 6.68E-83 | 9.83E-79 |

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|---|---|---|---|---|
| C08 | Hmgn2 | 0.715 | 7.78E-79 | 1.14E-74 |
| C08 | Asf1b | 0.631 | 9.70E-79 | 1.43E-74 |
| C08 | Ifitm1 | -1.558 | 2.63E-78 | 3.87E-74 |
| C08 | Arpc5l | 0.742 | 4.15E-78 | 6.11E-74 |
| C08 | Tifa | 0.809 | 4.28E-78 | 6.31E-74 |
| C08 | Hmgb2 | 0.946 | 8.14E-78 | 1.20E-73 |
| C08 | H2afz | 0.666 | 8.85E-78 | 1.30E-73 |
| C08 | Impdh1 | 0.606 | 2.66E-76 | 3.91E-72 |
| C08 | Hnrnpa3 | 0.639 | 1.49E-75 | 2.19E-71 |
| C08 | Pgls | 0.598 | 2.27E-75 | 3.35E-71 |
| C08 | Rbm3 | 0.444 | 5.58E-74 | 8.22E-70 |
| C08 | Cdv3 | 0.837 | 5.75E-74 | 8.47E-70 |
| C08 | Vamp8 | -0.843 | 5.79E-74 | 8.53E-70 |
| C08 | Itm2b | -0.663 | 6.41E-70 | 9.43E-66 |
| C08 | Dapp1 | -0.861 | 8.83E-70 | 1.30E-65 |
| C08 | Mgst2 | 0.454 | 4.22E-69 | 6.21E-65 |
| C08 | Uhrf1 | 0.648 | 4.51E-69 | 6.64E-65 |
| C08 | Anp32e | 0.728 | 5.85E-69 | 8.62E-65 |
| C08 | Rab38 | -0.845 | 4.45E-68 | 6.55E-64 |
| C08 | Tmsb10 | 0.532 | 7.14E-68 | 1.05E-63 |
| C08 | Dut | 0.651 | 1.92E-67 | 2.83E-63 |
| C08 | Cd63 | -1.11 | 1.58E-66 | 2.32E-62 |
| C08 | Gsn | 0.66 | 5.09E-66 | 7.49E-62 |
| C08 | Alox5ap | -0.784 | 1.31E-64 | 1.93E-60 |
| C08 | Tcf3 | 0.66 | 9.42E-64 | 1.39E-59 |
| C08 | Ezh2 | 0.722 | 1.02E-63 | 1.49E-59 |
| C08 | Emp3 | -0.7 | 1.43E-63 | 2.10E-59 |
| C08 | Creg1 | -0.78 | 4.01E-63 | 5.91E-59 |
| C08 | Pcna | 0.759 | 1.26E-62 | 1.85E-58 |
| C08 | Lmnb1 | 0.696 | 3.48E-62 | 5.13E-58 |
| C08 | Cd52 | 0.728 | 3.85E-62 | 5.67E-58 |
| C08 | Ptp4a3 | 0.68 | 3.86E-62 | 5.68E-58 |
| C08 | 2900026A02 | 0.465 | 6.68E-62 | 9.83E-58 |
| C08 | Laptm5 | -0.694 | 7.65E-62 | 1.13E-57 |
| C08 | Cox5a | 0.499 | 1.50E-61 | 2.21E-57 |
| C08 | Ablim1 | 0.42 | 3.19E-61 | 4.69E-57 |
| C08 | Ptpre | -0.769 | 9.33E-61 | 1.37E-56 |
| C08 | Ramp1 | -0.8 | 4.28E-60 | 6.29E-56 |
| C08 | Rgcc | 0.514 | 4.47E-60 | 6.58E-56 |
| C08 | Cd24a | 0.788 | 4.83E-60 | 7.11E-56 |
| C08 | Ly6e | 0.539 | 6.05E-60 | 8.91E-56 |
| C08 | Prdx1 | 0.528 | 1.03E-59 | 1.51E-55 |
| C08 | AU020206 | 0.461 | 2.18E-59 | 3.21E-55 |

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|---|---|---|---|---|
| C08 | Cdkn1a | 0.463 | 2.28E-59 | 3.36E-55 |
| C08 | Smarca4 | 0.66 | 5.21E-59 | 7.68E-55 |
| C08 | Srsf3 | 0.468 | 7.95E-59 | 1.17E-54 |
| C08 | Rgs18 | -0.728 | 2.29E-58 | 3.38E-54 |
| C08 | Serpina3g | -0.926 | 2.73E-57 | 4.02E-53 |
| C08 | Glipr1 | -0.692 | 6.73E-57 | 9.90E-53 |
| C08 | Slbp | 0.637 | 2.39E-56 | 3.52E-52 |
| C08 | Hnrnpa2b1 | 0.501 | 5.32E-56 | 7.84E-52 |
| C08 | Cd37 | 0.594 | 7.45E-56 | 1.10E-51 |
| C08 | Fbxo5 | 0.587 | 8.25E-56 | 1.21E-51 |
| C08 | Ranbp1 | 0.539 | 1.66E-55 | 2.44E-51 |
| C08 | Bin1 | 0.55 | 2.32E-55 | 3.41E-51 |
| C08 | Tmem176b | -0.77 | 2.61E-55 | 3.84E-51 |
| C08 | Plekha2 | 0.469 | 1.68E-54 | 2.48E-50 |
| C08 | Ndufs5 | 0.532 | 2.30E-54 | 3.39E-50 |
| C08 | Lgals9 | 0.643 | 2.52E-54 | 3.71E-50 |
| C08 | Parp1 | 0.566 | 5.70E-54 | 8.40E-50 |
| C08 | Sae1 | 0.552 | 8.91E-54 | 1.31E-49 |
| C08 | Tuba1b | 0.679 | 2.09E-53 | 3.08E-49 |
| C08 | Saraf | -0.661 | 1.27E-52 | 1.87E-48 |
| C08 | Vamp5 | -0.825 | 6.29E-52 | 9.26E-48 |
| C08 | Ran | 0.45 | 1.61E-51 | 2.36E-47 |
| C08 | Samsn1 | -0.707 | 3.97E-51 | 5.84E-47 |
| C08 | Ezr | 0.516 | 4.03E-51 | 5.93E-47 |
| C08 | Srsf2 | 0.457 | 8.36E-51 | 1.23E-46 |
| C08 | Nkg7 | -0.918 | 1.10E-50 | 1.62E-46 |
| C08 | Tmem176a | -0.677 | 2.23E-50 | 3.28E-46 |
| C08 | Malat1 | -0.767 | 4.78E-50 | 7.04E-46 |
| C08 | Tspan32 | -0.677 | 2.18E-49 | 3.21E-45 |
| C08 | Meis1 | -0.722 | 4.06E-49 | 5.97E-45 |
| C08 | Adgrl4 | -0.686 | 8.16E-48 | 1.20E-43 |
| C08 | Ppp1cb | 0.526 | 1.61E-47 | 2.37E-43 |
| C08 | Gm26917 | 0.543 | 3.15E-47 | 4.64E-43 |
| C08 | Rcsd1 | 0.564 | 4.58E-47 | 6.74E-43 |
| C08 | Mif | 0.543 | 6.79E-47 | 1.00E-42 |
| C08 | Hmgn1 | 0.524 | 1.86E-46 | 2.74E-42 |
| C08 | Tbc1d10c | 0.502 | 2.10E-46 | 3.09E-42 |
| C08 | H2-DMa | -0.631 | 3.19E-46 | 4.70E-42 |
| C08 | Ddx39 | 0.565 | 1.73E-45 | 2.54E-41 |
| C08 | Nfe2 | -0.58 | 3.99E-45 | 5.88E-41 |
| C08 | Angpt1 | -0.658 | 9.38E-45 | 1.38E-40 |
| C08 | Dnajc21 | 0.444 | 1.01E-44 | 1.48E-40 |
| C08 | Ifitm2 | -0.457 | 1.92E-44 | 2.82E-40 |

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|---|---|---|---|---|
| C08 | Ccna2 | 0.542 | 2.16E-44 | 3.18E-40 |
| C08 | Fxyd5 | -0.551 | 2.60E-44 | 3.82E-40 |
| C08 | H2afv | 0.544 | 3.35E-44 | 4.93E-40 |
| C08 | Cd27 | -0.632 | 1.02E-43 | 1.50E-39 |
| C08 | Dek | 0.476 | 1.12E-43 | 1.65E-39 |
| C08 | Nasp | 0.495 | 5.69E-43 | 8.38E-39 |
| C08 | Sipa1 | 0.429 | 3.97E-42 | 5.85E-38 |
| C08 | Dynll1 | 0.456 | 8.82E-42 | 1.30E-37 |
| C08 | Mki67 | 0.586 | 1.52E-41 | 2.23E-37 |
| C08 | Rabac1 | -0.505 | 2.01E-41 | 2.96E-37 |
| C08 | Tyms | 0.633 | 2.24E-41 | 3.29E-37 |
| C08 | Myl12b | -0.54 | 3.20E-41 | 4.71E-37 |
| C08 | Car2 | -1.081 | 6.41E-41 | 9.44E-37 |
| C08 | Lbr | 0.463 | 7.27E-41 | 1.07E-36 |
| C08 | Tmpo | 0.487 | 8.54E-41 | 1.26E-36 |
| C08 | Zfp36l2 | -0.605 | 1.10E-40 | 1.62E-36 |
| C08 | Slco3a1 | -0.554 | 3.01E-40 | 4.44E-36 |
| C08 | Pmf1 | 0.555 | 1.06E-39 | 1.57E-35 |
| C08 | Birc5 | 0.588 | 1.11E-39 | 1.64E-35 |
| C08 | Top2a | 0.66 | 1.86E-39 | 2.74E-35 |
| C08 | Nhp2l1 | 0.423 | 2.13E-39 | 3.13E-35 |
| C08 | Gcnt2 | -0.593 | 2.89E-39 | 4.26E-35 |
| C08 | Spint2 | -0.527 | 3.59E-39 | 5.28E-35 |
| C08 | Siva1 | 0.437 | 3.97E-39 | 5.84E-35 |
| C08 | S100a11 | -0.558 | 6.21E-39 | 9.14E-35 |
| C08 | Ikzf2 | -0.569 | 2.81E-38 | 4.13E-34 |
| C08 | Hnrnpab | 0.413 | 3.34E-38 | 4.91E-34 |
| C08 | Adrbk1 | 0.444 | 5.08E-38 | 7.47E-34 |
| C08 | Hlf | -0.709 | 7.95E-38 | 1.17E-33 |
| C08 | Nrgn | -0.614 | 1.60E-37 | 2.35E-33 |
| C08 | Baz1a | 0.409 | 4.07E-37 | 5.99E-33 |
| C08 | Fcer1g | -0.647 | 4.24E-37 | 6.24E-33 |
| C08 | Srsf7 | 0.426 | 6.38E-37 | 9.39E-33 |
| C08 | Prdx6 | -0.474 | 7.81E-37 | 1.15E-32 |
| C08 | Lgals1 | 0.657 | 1.36E-36 | 2.00E-32 |
| C08 | H2-Q7 | -0.629 | 1.61E-36 | 2.36E-32 |
| C08 | Hist1h2ap | 0.824 | 1.81E-36 | 2.66E-32 |
| C08 | Lockd | 0.468 | 2.91E-36 | 4.29E-32 |
| C08 | Pbk | 0.458 | 1.17E-35 | 1.73E-31 |
| C08 | Whsc1 | 0.425 | 2.14E-35 | 3.16E-31 |
| C08 | Tspan4 | -0.514 | 2.39E-35 | 3.52E-31 |
| C08 | Prdx4 | 0.474 | 3.03E-35 | 4.46E-31 |
| C08 | Rrm1 | 0.439 | 5.74E-35 | 8.46E-31 |

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|---|---|---|---|---|
| C08 | Dnajc9 | 0.424 | 6.22E-35 | 9.15E-31 |
| C08 | Zyx | -0.509 | 9.67E-35 | 1.42E-30 |
| C08 | Ppil1 | 0.444 | 1.17E-34 | 1.72E-30 |
| C08 | Cdca3 | 0.48 | 1.25E-34 | 1.84E-30 |
| C08 | Myct1 | -0.583 | 1.34E-34 | 1.97E-30 |
| C08 | Ube2s | 0.523 | 3.36E-34 | 4.95E-30 |
| C08 | Cacybp | 0.436 | 5.19E-34 | 7.65E-30 |
| C08 | Elof1 | 0.519 | 1.26E-33 | 1.86E-29 |
| C08 | Ccl9 | -0.884 | 6.36E-33 | 9.37E-29 |
| C08 | Lyar | 0.451 | 9.43E-33 | 1.39E-28 |
| C08 | Anxa5 | -0.492 | 1.02E-32 | 1.51E-28 |
| C08 | Tyrobp | -0.682 | 1.27E-32 | 1.86E-28 |
| C08 | Smc4 | 0.54 | 1.38E-31 | 2.03E-27 |
| C08 | Gata2 | -0.549 | 2.08E-31 | 3.07E-27 |
| C08 | Muc13 | -0.449 | 2.26E-31 | 3.33E-27 |
| C08 | Aldoa | -0.53 | 3.22E-31 | 4.74E-27 |
| C08 | Sdsl | -0.565 | 4.02E-31 | 5.91E-27 |
| C08 | Tspo | -0.495 | 4.36E-31 | 6.42E-27 |
| C08 | Mrpl52 | -0.489 | 5.03E-31 | 7.40E-27 |
| C08 | Lig1 | 0.415 | 5.93E-31 | 8.73E-27 |
| C08 | Serpinb1a | -0.561 | 7.01E-31 | 1.03E-26 |
| C08 | Wapl | -0.42 | 7.39E-31 | 1.09E-26 |
| C08 | Pbx1 | -0.686 | 7.65E-31 | 1.13E-26 |
| C08 | Anxa2 | -0.435 | 7.82E-31 | 1.15E-26 |
| C08 | S100a1 | -0.442 | 1.68E-30 | 2.47E-26 |
| C08 | 4930519L02F | -0.466 | 3.03E-30 | 4.46E-26 |
| C08 | Smc2 | 0.439 | 6.43E-30 | 9.47E-26 |
| C08 | Nfic | -0.45 | 9.16E-30 | 1.35E-25 |
| C08 | Pdcd4 | -0.548 | 1.18E-29 | 1.73E-25 |
| C08 | Lat2 | -0.463 | 1.20E-29 | 1.77E-25 |
| C08 | Fyb | -0.488 | 1.46E-29 | 2.16E-25 |
| C08 | Cdk1 | 0.519 | 1.54E-29 | 2.27E-25 |
| C08 | Hells | 0.417 | 1.70E-29 | 2.50E-25 |
| C08 | Bex6 | -0.493 | 3.30E-29 | 4.86E-25 |
| C08 | Gmnn | 0.41 | 6.08E-29 | 8.95E-25 |
| C08 | Crlf2 | -0.478 | 9.07E-29 | 1.34E-24 |
| C08 | Akap13 | -0.475 | 1.09E-28 | 1.61E-24 |
| C08 | Emb | -0.654 | 1.09E-28 | 1.61E-24 |
| C08 | Mpo | -1.302 | 1.99E-28 | 2.93E-24 |
| C08 | Aldh2 | -0.452 | 7.30E-28 | 1.07E-23 |
| C08 | Cenpa | 0.495 | 9.77E-28 | 1.44E-23 |
| C08 | Gclm | -0.48 | 1.98E-27 | 2.92E-23 |
| C08 | Prr13 | -0.477 | 2.45E-27 | 3.60E-23 |

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|---|---|---|---|---|
| C08 | Skap2 | -0.41 | 7.37E-27 | 1.09E-22 |
| C08 | Krt18 | -0.455 | 2.13E-26 | 3.14E-22 |
| C08 | Ctsd | -0.412 | 2.69E-26 | 3.97E-22 |
| C08 | Ctsg | -1.592 | 2.94E-26 | 4.33E-22 |
| C08 | Tubb5 | 0.443 | 4.84E-26 | 7.13E-22 |
| C08 | Cpne2 | -0.427 | 4.97E-26 | 7.31E-22 |
| C08 | Txnip | -0.671 | 7.56E-26 | 1.11E-21 |
| C08 | Pnrc1 | -0.49 | 2.32E-25 | 3.42E-21 |
| C08 | Ffar2 | -0.409 | 2.65E-25 | 3.90E-21 |
| C08 | Mettl7a1 | -0.434 | 3.23E-25 | 4.75E-21 |
| C08 | Bcl2 | -0.469 | 8.89E-25 | 1.31E-20 |
| C08 | Cited2 | -0.483 | 1.08E-24 | 1.59E-20 |
| C08 | Ssbp2 | -0.413 | 1.22E-24 | 1.79E-20 |
| C08 | Shisa5 | -0.452 | 1.67E-24 | 2.46E-20 |
| C08 | Apoe | -0.974 | 2.86E-24 | 4.21E-20 |
| C08 | Ms4a6c | -0.441 | 2.98E-24 | 4.39E-20 |
| C08 | Tsc22d1 | -0.548 | 5.45E-24 | 8.03E-20 |
| C08 | Nrip1 | -0.455 | 5.46E-24 | 8.03E-20 |
| C08 | Spi1 | -0.415 | 1.24E-23 | 1.83E-19 |
| C08 | Xist | -1.504 | 1.25E-22 | 1.83E-18 |
| C08 | Gng11 | -0.417 | 1.65E-22 | 2.42E-18 |
| C08 | Ndrg1 | -0.412 | 1.90E-22 | 2.79E-18 |
| C08 | Capg | -0.425 | 4.51E-22 | 6.64E-18 |
| C08 | Adgrg1 | -0.445 | 3.63E-21 | 5.34E-17 |
| C08 | Atpif1 | -0.408 | 5.04E-21 | 7.43E-17 |
| C08 | Lyz2 | -0.435 | 1.96E-20 | 2.89E-16 |
| C08 | Rgs1 | -0.592 | 5.59E-19 | 8.23E-15 |
| C08 | Wfdc17 | -0.756 | 3.63E-18 | 5.34E-14 |
| C08 | Cd9 | -0.424 | 1.30E-17 | 1.91E-13 |
| C08 | H2afx | 0.511 | 6.66E-16 | 9.80E-12 |
| C08 | Hbb-bt | -1.017 | 1.25E-14 | 1.84E-10 |
| C08 | Ms4a3 | -0.796 | 3.38E-14 | 4.97E-10 |
| C08 | Pf4 | -0.775 | 4.87E-12 | 7.17E-08 |
| C08 | Junb | -0.539 | 9.15E-10 | 1.35E-05 |
| C08 | Ube2c | 0.513 | 1.77E-09 | 2.61E-05 |
| C08 | Egr1 | -0.5 | 8.60E-09 | 1.27E-04 |
| C08 | Ccl4 | -0.406 | 1.10E-08 | 1.62E-04 |
| C08 | Elane | -1.188 | 1.82E-08 | 2.68E-04 |
| C08 | Mt1 | -0.488 | 1.63E-07 | 0.00239264 |
| C08 | Fosb | -0.49 | 2.59E-07 | 0.00381662 |
| C08 | Fos | -1.188 | 5.14E-07 | 0.00756459 |