

| Gene          | CUMS vs<br>Control | CUMS+DNLA<br>vs Control | CUMS+DNLA<br>vs CUMS |
|---------------|--------------------|-------------------------|----------------------|
| <b>Cercam</b> | 10.10013           | -3.331763               | 3.217776             |
| Epb41l2       | 10.22362           | -4.501266               | 4.397821             |
| Erg28         | 4.14368            | -1.874285               | 2.163035             |
| Nfat5         | 8.073574           | -4.578507               | 1.589425             |
| Fbxl7         | 9.085627           | 0                       | 2.545769             |
| Hfm1          | 10.07786           | 0                       | 3.627921             |
| Gkap1         | 4.613231           | 0                       | 1.515249             |
| Kcnh1         | 13.66957           | 0                       | 6.658175             |
| Ppp6r3        | 2.31521            | 0                       | 1.114287             |
| Dnah12        | 4.490903           | 0                       | 2.091742             |
| Kbtbd4        | 5.271563           | 0                       | 2.178668             |
| Ppp1r12b      | 8.650551           | 0                       | 4.524265             |
| Lrguk         | 8.077356           | 0                       | 4.530384             |
| Zbtb7b        | 10.23609           | 0                       | 5.922619             |
| Bbof1         | 8.28698            | 0                       | 4.860247             |
| Runx1t1       | 5.252482           | 0                       | 3.168351             |
| Plekhg1       | 9.862673           | 0                       | 6.636184             |
| Psd           | 2.919009           | 0                       | 1.970139             |
| Mcf2l         | 2.881493           | 0                       | 1.964623             |
| Dync1i1       | 3.975852           | 0                       | 2.758986             |
| Shank1        | 2.303914           | 0                       | 1.522758             |
| Smad5         | 10.69552           | 1.755556                | 0                    |
| Carmil3       | 10.13495           | 1.043113                | 0                    |
| Gpam          | 11.74068           | 1.787621                | 1.332357             |
| Puf60         | 9.093901           | 1.35987                 | 1.202401             |
| Rims2         | 6.233401           | 2.018194                | 0                    |
| Rab11fip4     | 10.16226           | 2.240742                | 2.942025             |
| Nphp4         | 7.872037           | 1.605426                | 1.943208             |
| H2afy         | 11.86718           | 0                       | 1.249852             |
| Epb41l1       | 11.75047           | 0                       | 1.284492             |
| Ulk2          | 10.93065           | 0                       | 1.344287             |
| Setd4         | 10.03474           | 0                       | 1.483797             |
| Dglucy        | 9.074306           | 0                       | 1.299353             |
| Acacb         | 10.74546           | 0                       | 1.641797             |
| Lef1          | 8.561274           | 0                       | 1.378146             |
| Rims1         | 7.741928           | 0                       | 1.705093             |
| Sema6c        | 8.288637           | 0                       | 1.947892             |
| Pcdha4        | 7.897548           | 0                       | 1.89555              |
| RGD15650      | 5.81053            | 0                       | 1.402705             |
| Necab3        | 8.580931           | 0                       | 1.596769             |
| Plag1         | 6.510541           | 0                       | 1.24582              |
| Ppm1k         | 5.822041           | 0                       | 1.163242             |
| Ttc3          | 28.55877           | 0                       | -9.565695            |
| Adcy6         | 8.773968           | 0                       | -2.84136             |
| Trak1         | 9.600843           | 0                       | -2.873143            |

|           |          |           |           |
|-----------|----------|-----------|-----------|
| Ntng1     | 6.620963 | 0         | -1.11132  |
| Hipk1     | 4.785717 | 1.088078  | -1.380631 |
| Foxred2   | 9.208433 | 0         | -4.43693  |
| Zfp707    | 8.806701 | 0         | -4.257987 |
| Pcp4      | 6.990177 | 0         | -3.420789 |
| Man2a2    | 3.758954 | 0         | -1.906162 |
| Cdkl3     | 9.79484  | 0         | -4.315587 |
| Fam208b   | 9.623752 | 0         | -4.487756 |
| Pum2      | 2.559944 | 0         | -1.18247  |
| Atp13a2   | 2.439166 | 0         | -1.000018 |
| Slc16a6   | 9.312711 | -3.012909 | 0         |
| Slc39a11  | 10.6178  | -3.194419 | 0         |
| Mrgpre    | 3.762438 | -1.088536 | 0         |
| Als2      | 4.709272 | -2.02379  | 0         |
| Stambpl1  | 6.076834 | -1.461104 | -1.132465 |
| Tmem50b   | 4.794774 | -1.496207 | -1.276433 |
| Ash1l     | 14.9523  | -1.962597 | 0         |
| Kidins220 | 11.58295 | -1.425439 | 0         |
| Dym       | 8.030882 | -1.33837  | 0         |
| Camk2d    | 6.923888 | -1.065455 | 0         |
| Cpne4     | 25.35669 | 0         | 1.107533  |
| Mtmr3     | 12.98768 | 0         | 1.003329  |
| Naa10     | 9.052556 | 0         | 0         |
| LOC108348 | 8.348517 | 0         | 0         |
| Ncoa2     | 8.079556 | 0         | 0         |
| Pla2g2c   | 9.34083  | 0         | 0         |
| Zscan2    | 8.707884 | 0         | 0         |
| Arhgap39  | 10.5171  | 0         | 0         |
| Vrk1      | 9.904968 | 0         | 0         |
| Kif18b    | 6.08738  | 0         | 0         |
| Wnk3      | 10.86115 | 0         | 0         |
| Entpd5    | 9.33981  | 0         | 0         |
| Ngf       | 8.172404 | 0         | 0         |
| Srek1     | 2.156425 | 0         | 0         |
| RGD15608  | 9.45479  | 0         | 0         |
| Taco1     | 9.33549  | 0         | 0         |
| Slc16a7   | 8.138496 | 0         | 0         |
| Hus1      | 3.976541 | 0         | 0         |
| RGD15620  | 8.842874 | 0         | 0         |
| Vom1r42   | 6.159723 | 0         | 0         |
| Maats1    | 8.154595 | 0         | 0         |
| Cpne9     | 7.981793 | 0         | 0         |
| Gnas      | 7.812265 | 0         | 0         |
| Col28a1   | 6.955143 | 0         | 0         |
| Dpysl5    | 7.501314 | 0         | 0         |
| Gch1      | 6.716341 | 0         | 0         |
| Tpm3      | 3.134497 | 0         | 0         |

|           |          |   |   |
|-----------|----------|---|---|
| Nmur2     | 1.055474 | 0 | 0 |
| Sfmbt1    | 9.806691 | 0 | 0 |
| Paqr3     | 9.513786 | 0 | 0 |
| Trpc3     | 7.336444 | 0 | 0 |
| Mboat7    | 10.87374 | 0 | 0 |
| Adcy8     | 9.762999 | 0 | 0 |
| LOC100910 | 8.236965 | 0 | 0 |
| Prr5l     | 6.386103 | 0 | 0 |
| Igsf3     | 11.67702 | 0 | 0 |
| Skiv2l    | 11.31903 | 0 | 0 |
| Mapk6     | 10.62635 | 0 | 0 |
| Nmnat3    | 5.81655  | 0 | 0 |
| Ncald     | 13.5623  | 0 | 0 |
| Csf1      | 11.37804 | 0 | 0 |
| Dgki      | 27.5744  | 0 | 0 |
| Ltc4s     | 6.597426 | 0 | 0 |
| Med12     | 11.80572 | 0 | 0 |
| LOC103690 | 9.619402 | 0 | 0 |
| Serpib1b  | 5.272605 | 0 | 0 |
| Celf6     | 1.193222 | 0 | 0 |
| Tbc1d2b   | 8.238564 | 0 | 0 |
| Tceal1    | 3.770335 | 0 | 0 |
| Tprkb     | 7.674782 | 0 | 0 |
| Rnase4    | 5.604986 | 0 | 0 |
| Slc4a7    | 7.066311 | 0 | 0 |
| Acer3     | 7.007237 | 0 | 0 |
| Klhl12    | 4.621029 | 0 | 0 |
| Cyp4f18   | 6.069553 | 0 | 0 |
| Toe1      | 3.664631 | 0 | 0 |
| Ppp1r12a  | 4.734028 | 0 | 0 |
| Snx1      | 4.122856 | 0 | 0 |
| Cep63     | 3.523683 | 0 | 0 |
| P2rx6     | 3.926722 | 0 | 0 |
| Suox      | 3.793892 | 0 | 0 |
| Mvp       | 2.523745 | 0 | 0 |
| Nell2     | 1.729046 | 0 | 0 |
| Bub1      | 1.416284 | 0 | 0 |
| Chpf2     | 11.20192 | 0 | 0 |
| Akap9     | 11.19213 | 0 | 0 |
| Lhx6      | 8.584996 | 0 | 0 |
| Espnl     | 6.164232 | 0 | 0 |
| Prpf8     | 27.45107 | 0 | 0 |
| Agbl3     | 10.13863 | 0 | 0 |
| Arhgap35  | 13.51923 | 0 | 0 |
| Gfm2      | 11.26617 | 0 | 0 |
| Icoslg    | 9.090862 | 0 | 0 |
| Sall1     | 12.75657 | 0 | 0 |

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|-----------|----------|---|---|
| Kif21a    | 9.735232 | 0 | 0 |
| Tbpl1     | 8.200592 | 0 | 0 |
| Kcnt2     | 2.071308 | 0 | 0 |
| ErbB2     | 1.467223 | 0 | 0 |
| Pih1d2    | 11.00864 | 0 | 0 |
| Masp2     | 4.680799 | 0 | 0 |
| Vwa5b2    | 10.22023 | 0 | 0 |
| Armc8     | 10.12853 | 0 | 0 |
| Ednra     | 9.294318 | 0 | 0 |
| Tango2    | 2.028549 | 0 | 0 |
| Eya3      | 7.421214 | 0 | 0 |
| Shroom1   | 5.566851 | 0 | 0 |
| Erich4    | 5.997742 | 0 | 0 |
| Mafk      | 2.188872 | 0 | 0 |
| Dis3l     | 3.812198 | 0 | 0 |
| Mfsd13a   | 2.020066 | 0 | 0 |
| Senp6     | 1.037286 | 0 | 0 |
| RT1-DMb   | 3.275758 | 0 | 0 |
| Tnfrsf25  | 1.495917 | 0 | 0 |
| Trpm6     | 1.300914 | 0 | 0 |
| Slc13a5   | 1.042322 | 0 | 0 |
| Usp6nl    | 9.295578 | 0 | 0 |
| Uvssa     | 4.702956 | 0 | 0 |
| Bach2     | 10.03549 | 0 | 0 |
| Grtp1     | 7.449386 | 0 | 0 |
| Wbp1l     | 11.16138 | 0 | 0 |
| RGD13071l | 10.68921 | 0 | 0 |
| Angptl6   | 9.031099 | 0 | 0 |
| Misp3     | 6.409843 | 0 | 0 |
| Gcc2      | 13.54583 | 0 | 0 |
| Ndst1     | 9.125332 | 0 | 0 |
| RGD15604l | 7.899355 | 0 | 0 |
| LOC108352 | 2.068914 | 0 | 0 |
| Fam3a     | 9.928368 | 0 | 0 |
| RGD13115l | 7.925652 | 0 | 0 |
| Styx1l    | 2.182366 | 0 | 0 |
| Hapln2    | 1.141581 | 0 | 0 |
| RGD13113l | 9.307475 | 0 | 0 |
| Nudt17    | 4.233222 | 0 | 0 |
| Tnik      | 1.042783 | 0 | 0 |
| Catsperb  | 6.028908 | 0 | 0 |
| Plekha1   | 3.689427 | 0 | 0 |
| Cep44     | 2.46708  | 0 | 0 |
| Gmeb1     | 1.127495 | 0 | 0 |
| Rtn3      | 1.116735 | 0 | 0 |
| Ly96      | 1.032168 | 0 | 0 |
| Islr2     | 1.226569 | 0 | 0 |

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|-----------|----------|---|---|
| LOC690276 | 7.86438  | 0 | 0 |
| Exog      | 6.201736 | 0 | 0 |
| Dennd4a   | 9.928219 | 0 | 0 |
| Tmem200a  | 4.971801 | 0 | 0 |
| Ptpm      | 9.101287 | 0 | 0 |
| Sall3     | 7.376674 | 0 | 0 |
| Pias3     | 2.832007 | 0 | 0 |
| Esr1      | 9.054578 | 0 | 0 |
| Arhgap4   | 6.077179 | 0 | 0 |
| Gim1      | 3.530308 | 0 | 0 |
| Zfp131    | 8.115549 | 0 | 0 |
| Ugt2b1    | 3.515196 | 0 | 0 |
| Tubgcp6   | 1.713481 | 0 | 0 |
| Tle6      | 7.548371 | 0 | 0 |
| Spata5    | 3.871175 | 0 | 0 |
| Per3      | 1.188624 | 0 | 0 |
| Il18rap   | 5.352479 | 0 | 0 |
| S100pbp   | 1.841484 | 0 | 0 |
| Hoga1     | 1.696187 | 0 | 0 |
| Atp5pf    | 1.312597 | 0 | 0 |
| Snx11     | 1.220384 | 0 | 0 |
| Eno4      | 9.623982 | 0 | 0 |
| Farp2     | 4.509286 | 0 | 0 |
| Foxp2     | 8.893665 | 0 | 0 |
| Dmrtc1b   | 8.042286 | 0 | 0 |
| Rusc1     | 5.734956 | 0 | 0 |
| Cops4     | 2.629678 | 0 | 0 |
| Clk4      | 8.294337 | 0 | 0 |
| Trim11    | 4.116643 | 0 | 0 |
| Dock11    | 4.764035 | 0 | 0 |
| Ei24      | 2.125856 | 0 | 0 |
| Crif1     | 1.360898 | 0 | 0 |
| Zer1      | 1.879426 | 0 | 0 |
| LOC100912 | 1.403449 | 0 | 0 |
| Exoc3l4   | 7.691675 | 0 | 0 |
| Hoxc6     | 6.574248 | 0 | 0 |
| Tpd52l1   | 8.939801 | 0 | 0 |
| Kynu      | 7.674827 | 0 | 0 |
| C2cd2     | 8.777209 | 0 | 0 |
| LOC108348 | 5.220231 | 0 | 0 |
| Ces1c     | 8.761038 | 0 | 0 |
| Tmem132c  | 8.497745 | 0 | 0 |
| Prss8     | 6.334603 | 0 | 0 |
| LOC102555 | 1.761023 | 0 | 0 |
| Mbp       | 1.698707 | 0 | 0 |
| RGD13046  | 8.111829 | 0 | 0 |
| Scp2d1    | 2.085962 | 0 | 0 |

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|-----------|----------|---|---|
| Irak3     | 4.39504  | 0 | 0 |
| Cpa6      | 3.957253 | 0 | 0 |
| Naa25     | 3.519255 | 0 | 0 |
| LOC108348 | 3.275758 | 0 | 0 |
| LOC361346 | 1.391404 | 0 | 0 |
| Zdhhc21   | 2.670033 | 0 | 0 |
| Wasf1     | 1.155062 | 0 | 0 |
| Pkn2      | 2.405253 | 0 | 0 |
| Zfp36l2   | 2.183328 | 0 | 0 |
| RGD130651 | 5.803709 | 0 | 0 |
| Trim14    | 8.054929 | 0 | 0 |
| LOC680875 | 8.204703 | 0 | 0 |
| Cacna2d4  | 6.353383 | 0 | 0 |
| Dst       | 8.638015 | 0 | 0 |
| Tymp      | 7.564448 | 0 | 0 |
| Cdkn1b    | 8.572144 | 0 | 0 |
| Rnf123    | 4.777268 | 0 | 0 |
| Rrp1b     | 1.664892 | 0 | 0 |
| Tprg1l    | 8.401819 | 0 | 0 |
| Rasgrf1   | 5.358768 | 0 | 0 |
| Chst9     | 1.895178 | 0 | 0 |
| Dohh      | 1.464541 | 0 | 0 |
| Zfp709l1  | 6.954672 | 0 | 0 |
| Tmem95    | 6.190528 | 0 | 0 |
| RGD156371 | 2.048694 | 0 | 0 |
| Arhgef2   | 1.043092 | 0 | 0 |
| Dpp6      | 3.572069 | 0 | 0 |
| Zfp521    | 1.277512 | 0 | 0 |
| Tmem176b  | 1.109384 | 0 | 0 |
| Mug1      | 5.523238 | 0 | 0 |
| Enthd1    | 5.285551 | 0 | 0 |
| Aanat     | 6.501266 | 0 | 0 |
| Asl       | 8.381769 | 0 | 0 |
| Rai2      | 6.649913 | 0 | 0 |
| Tepp      | 6.500123 | 0 | 0 |
| Poln      | 1.605697 | 0 | 0 |
| Sh3bp4    | 7.213989 | 0 | 0 |
| Kif7      | 6.678255 | 0 | 0 |
| Phf24     | 1.350125 | 0 | 0 |
| Cryaa     | 5.834583 | 0 | 0 |
| NEWGENE_  | 1.394728 | 0 | 0 |
| Tia1      | 1.405476 | 0 | 0 |
| B4galt4   | 1.09212  | 0 | 0 |
| Syndig1   | 1.24911  | 0 | 0 |
| Ccdc121   | 1.073601 | 0 | 0 |
| Zfp362    | 8.147424 | 0 | 0 |
| Siglec1   | 8.10542  | 0 | 0 |

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| Mpv17l2   | 1.01936  | 0 | 0 |
| Arrdc4    | 5.37791  | 0 | 0 |
| Tle1      | 1.850177 | 0 | 0 |
| Wnt10a    | 1.175898 | 0 | 0 |
| Mlc1      | 2.864985 | 0 | 0 |
| Ncdn      | 2.01819  | 0 | 0 |
| Pcbp2     | 1.444448 | 0 | 0 |
| Lyve1     | 1.014647 | 0 | 0 |
| Elmo3     | 6.110729 | 0 | 0 |
| Uchl5     | 3.722975 | 0 | 0 |
| Arfgap3   | 6.453968 | 0 | 0 |
| Usp29     | 2.385616 | 0 | 0 |
| Ptbp3     | 7.59883  | 0 | 0 |
| Cep162    | 5.457471 | 0 | 0 |
| Ankrd11   | 1.433883 | 0 | 0 |
| Cntfr     | 7.264577 | 0 | 0 |
| Acss3     | 3.396134 | 0 | 0 |
| Tbx2      | 1.162267 | 0 | 0 |
| Sftpc     | 5.545604 | 0 | 0 |
| Dclre1a   | 1.9372   | 0 | 0 |
| Tbx4      | 1.604524 | 0 | 0 |
| Adamts9   | 4.239785 | 0 | 0 |
| Dnajc2    | 2.71827  | 0 | 0 |
| Swap70    | 2.722046 | 0 | 0 |
| Fam8a1    | 1.163057 | 0 | 0 |
| Sdccag8   | 1.748976 | 0 | 0 |
| Tnfsf9    | 1.355559 | 0 | 0 |
| LOC100912 | 1.269262 | 0 | 0 |
| Tspan12   | 6.159037 | 0 | 0 |
| Rxfp1     | 7.093739 | 0 | 0 |
| Sec24b    | 3.202716 | 0 | 0 |
| Ccdc51    | 3.458177 | 0 | 0 |
| Rffl      | 1.721986 | 0 | 0 |
| Ube2j2    | 1.721243 | 0 | 0 |
| Arhgef25  | 1.640115 | 0 | 0 |
| LOC103692 | 1.572824 | 0 | 0 |
| Ccdc159   | 2.351139 | 0 | 0 |
| Deaf1     | 1.93886  | 0 | 0 |
| Cmss1     | 1.905293 | 0 | 0 |
| Anln      | 1.107595 | 0 | 0 |
| Parp11    | 1.21426  | 0 | 0 |
| Rgs19     | 1.09594  | 0 | 0 |
| Jakmip1   | 6.752203 | 0 | 0 |
| Lypd6b    | 3.773055 | 0 | 0 |
| Zfp536    | 3.358464 | 0 | 0 |
| Cldn15    | 1.632155 | 0 | 0 |
| Cluh      | 1.284591 | 0 | 0 |

|           |          |            |          |
|-----------|----------|------------|----------|
| Klhl33    | 1.121215 | 0          | 0        |
| Trak2     | 2.938158 | 0          | 0        |
| Rnpc3     | 4.041355 | 0          | 0        |
| LOC100361 | 6.651078 | 0          | 0        |
| Pcyt1b    | 1.076961 | 0          | 0        |
| Gng7      | 3.303752 | 0          | 0        |
| RGD13081  | 1.258306 | 0          | 0        |
| Scamp5    | 1.940228 | 0          | 0        |
| Setx      | 1.658515 | 0          | 0        |
| Dcaf8     | 1.533704 | 0          | 0        |
| Gspt1     | 1.203337 | 0          | 0        |
| Blnk      | 5.493711 | 0          | 0        |
| Fbxo18    | 2.223508 | 0          | 0        |
| Eif2ak3   | 5.335157 | 0          | 0        |
| Rab20     | 2.18392  | 0          | 0        |
| Wdr18     | 2.660604 | 0          | 0        |
| Chek2     | 2.200659 | 0          | 0        |
| Lat2      | 2.18042  | 0          | 0        |
| Mx2       | 1.06495  | 0          | 0        |
| Zc3h13    | 3.370627 | 0          | 0        |
| Ide       | 2.499898 | 0          | 0        |
| Rbck1     | 2.110899 | 0          | 0        |
| Gale      | 3.698187 | 0          | 0        |
| Chst10    | 3.157678 | 0          | 0        |
| Aldh16a1  | 2.998218 | 0          | 0        |
| P4ha1     | 2.577118 | 0          | 0        |
| Ube2d3    | 1.547166 | 0          | 0        |
| Pkig      | 1.403284 | 0          | 0        |
| Sfrp2     | 1.249931 | 0          | 0        |
| Fbxo38    | 1.545431 | 0          | 0        |
| Ankrd46   | 1.823759 | 0          | 0        |
| RGD15649  | 1.327782 | 0          | 0        |
| Flrt2     | 1.052644 | 0          | 0        |
| Ngdn      | 1.522709 | 0          | 0        |
| Synpr     | 1.203159 | 0          | 0        |
| Phc3      | 1.050622 | 0          | 0        |
| Zfp28     | 7.833351 | -7.342545  | 4.649728 |
| Lca5      | 6.832438 | -8.006368  | 9.773796 |
| Pfkfb2    | 6.185436 | -4.124068  | 6.200098 |
| Bbx       | 7.787099 | -10.599587 | 6.598988 |
| Nme6      | 5.075458 | -7.676254  | 5.251696 |
| lkbkg     | 4.598218 | -8.194261  | 4.092401 |
| Lrrfip1   | 4.516824 | -9.515625  | 3.258809 |
| Synb      | 1.185026 | -4.266698  | 4.096672 |
| Cadps2    | 1.242303 | -8.826094  | 8.983901 |
| Phrf1     | 0        | -1.83135   | 1.780959 |
| Ppard     | 0        | -6.215275  | 6.072149 |

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|-----------|----------|------------|-----------|
| Rgs12     | 0        | -4.705916  | 4.52847   |
| Tns2      | 0        | -1.940591  | 1.969264  |
| Steap2    | 0        | -10.342373 | 10.846128 |
| Zmynd11   | 0        | -2.125353  | 2.288531  |
| Iws1      | 0        | -1.852032  | 1.632568  |
| Mark3     | 0        | -7.299805  | 5.866048  |
| Mrpl52    | 0        | -5.792693  | 4.433754  |
| Adarb1    | 0        | -1.121943  | 1.303949  |
| Gatad2a   | 0        | -5.760743  | 6.820243  |
| Rnasel    | 0        | -5.110076  | 7.019437  |
| Trim69    | 0        | -5.836665  | 7.993916  |
| Ercc6     | 0        | -11.394894 | 3.590975  |
| Grid2ip   | 0        | -10.332207 | 3.334863  |
| Eml6      | 0        | -8.593884  | 2.229348  |
| Hhatl     | 0        | -9.808835  | 2.460205  |
| Xylb      | 0        | -8.757054  | 2.059035  |
| Kif21b    | 0        | -2.923409  | 1.204128  |
| Abhd5     | 0        | -9.794135  | 4.251748  |
| Tmed1     | 0        | -7.95465   | 3.590785  |
| Ctps2     | 0        | -8.734975  | 4.894484  |
| Spry3     | 0        | -5.805517  | 3.49326   |
| Flywch1   | 0        | -8.768594  | 6.187618  |
| Mier1     | 0        | -2.032246  | 1.349938  |
| RGD15662  | 0        | -8.921937  | 5.764116  |
| Csnk1g1   | 10.86121 | 0          | 9.255006  |
| Slc19a1   | 9.601412 | 0          | 8.455562  |
| Asgr1     | 7.998633 | 0          | 6.540847  |
| LOC103693 | 1.596376 | 0          | 1.330519  |
| Arl11     | 8.582373 | 0          | 6.826102  |
| Zfp1      | 8.311047 | 0          | 6.389549  |
| Pkd1      | 4.621201 | 0          | 3.510504  |
| Fbxw11    | 9.979612 | -1.816329  | 9.893604  |
| Nexmif    | 13.42063 | 0          | 12.696055 |
| Ccne2     | 10.08032 | 0          | 9.675533  |
| Sgpl1     | 12.01823 | 0          | 12.50774  |
| Celsr3    | 1.038958 | 0          | 1.084278  |
| Wdr89     | 8.924046 | 0          | 9.125847  |
| Cul1      | 1.631701 | 0          | 1.646079  |
| Skil      | 1.828978 | 0          | 1.970145  |
| Ahnak     | 9.888963 | 2.29487    | 11.098491 |
| Car12     | 5.137578 | 2.372329   | 6.354419  |
| Cluap1    | 4.517686 | 1.546787   | 3.680522  |
| Robo2     | 8.798053 | 0          | 10.484752 |
| RGD13117  | 4.407295 | 0          | 5.367872  |
| Mtfr1     | 6.494023 | 0          | 9.148587  |
| Kcnip4    | 5.185301 | 0          | 7.665858  |
| Ubr4      | 5.480784 | 0          | 7.319311  |

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| Lilrb4   | 5.286012 | 0         | 7.211165  |
| Galt     | 1.376446 | 0         | 1.86494   |
| Crocc    | 2.085625 | 0         | 2.701617  |
| Lrrc20   | 5.018311 | 0         | 8.554176  |
| Cux2     | 5.543402 | 0         | 9.798019  |
| Grik1    | 4.789854 | 0         | 8.56204   |
| Fxyd5    | 1.246158 | 0         | 2.174789  |
| Abcf2    | 1.210818 | 0         | 2.117843  |
| Ktn1     | 1.660012 | 0         | 3.048105  |
| Ripor1   | 1.127267 | 0         | 2.069365  |
| Esf1     | 4.543536 | 0         | 9.793572  |
| Unk      | 1.550208 | 0         | 3.396725  |
| Acsl6    | 1.153914 | 0         | 2.703524  |
| Gprasp2  | 1.063774 | 0         | 2.110961  |
| Slc16a11 | 5.164449 | 3.821245  | 9.05566   |
| Ppcdc    | 3.768222 | 2.45934   | 6.438448  |
| Dhx38    | 4.022852 | 4.30088   | 7.616178  |
| Pcmt1d1  | 1.209576 | 1.199915  | 1.975523  |
| Rbfox2   | 1.181522 | 1.234566  | 2.045849  |
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| Lrrc8d   | 0        | -5.014847 | 9.907082  |
| Ppfia2   | 0        | -2.160291 | 4.89163   |
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| Scrt2    | 0        | -1.760174 | 4.668441  |
| Tcaim    | 0        | -2.948143 | 8.393715  |
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| Rimklb   | 2.512075 | 0         | 8.854349  |
| Supt3h   | 2.021506 | 0         | 8.009272  |
| Tmem63c  | 1.864501 | 0         | 8.09164   |
| Ralgds   | 1.727101 | 0         | 7.425537  |
| Slc35a5  | 1.296888 | 0         | 5.573904  |
| Cbx7     | 2.283052 | 0         | 7.008443  |
| Shank2   | 1.45156  | 0         | 3.952399  |
| Mast2    | 1.566351 | 0         | 9.972674  |
| Lpp      | 1.323404 | 0         | 7.478776  |
| Camsap1  | 1.589351 | 0         | 11.866979 |
| Ddr2     | 1.2992   | 0         | 11.026565 |
| Frmd4b   | 1.282934 | 0         | 10.508637 |
| Unc5d    | 1.29926  | -1.152222 | 8.365543  |
| Cfap36   | 0        | 0         | 2.561561  |
| Lilrb3l  | 0        | 0         | 9.027668  |
| Ankzf1   | 0        | 0         | 1.048939  |
| Rad18    | 0        | 0         | 3.053646  |
| Pld1     | 0        | 0         | 4.343166  |
| Ccdc163  | 0        | 0         | 7.082161  |
| Limk2    | 0        | 0         | 9.493433  |
| Zfp68    | 0        | 0         | 1.767898  |

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| Tcam1      | 0 | 0 | 1.032754  |
| Rnf111     | 0 | 0 | 1.40305   |
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| Ebf2       | 0 | 0 | 1.778213  |
| Barhl2     | 0 | 0 | 6.924978  |
| Usp54      | 0 | 0 | 1.521892  |
| Gins2      | 0 | 0 | 1.583418  |
| LOC102552  | 0 | 0 | 3.886859  |
| Fezf2      | 0 | 0 | 8.081644  |
| Pdzd7      | 0 | 0 | 2.921259  |
| LOC691254  | 0 | 0 | 6.615182  |
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| Srgap1     | 0 | 0 | 3.580481  |
| Fbxl5      | 0 | 0 | 12.534153 |
| Fhod3      | 0 | 0 | 6.838961  |
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| Wbp2       | 0 | 0 | 1.016887  |
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| Atp2b4     | 0 | 0 | 1.52864   |
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| Arhgap22   | 0 | 0 | 1.393928  |
| Inca1      | 0 | 0 | 6.550171  |
| RT1-A2     | 0 | 0 | 2.461857  |

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| Gpatch2l  | 0 | 0 | 3.799314  |
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| Vps13d    | 0 | 0 | 1.358216  |
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| Tmem5     | 0 | 0 | 2.273181  |
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| Gdpgp1    | 0 | 0 | 2.593599  |
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| Pcdh12    | 0 | 0 | 1.288269  |
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| Gmppa     | 0 | 0 | 4.126026 |
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| Amigo2    | 0 | 0 | 3.872428 |
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| Rspo1     | 0 | 0 | 1.429718 |
| Ephb1     | 0 | 0 | 1.485481 |
| Lrrc8a    | 0 | 0 | 1.219694 |

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| Ilkap     | 0 | 0 | 2.369596  |
| Gpld1     | 0 | 0 | 2.141286  |
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| Clk1      | 0 | 0 | 1.065429  |
| Ahcyl1    | 0 | 0 | 1.071814  |
| Mrto4     | 0 | 0 | 4.050666  |
| Ank1      | 0 | 0 | 8.954684  |
| Chchd7    | 0 | 0 | 1.954154  |
| Cabp1     | 0 | 0 | 1.702896  |
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| Slc26a3   | 0 | 0 | 3.635335  |
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| Ncor2     | 0 | 0 | 1.577858  |
| Nr1i3     | 0 | 0 | 1.150673  |
| Tbc1d12   | 0 | 0 | 7.525318  |
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| Ica1l     | 0 | 0 | 9.445569  |
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| Mxra7     | 0 | 0 | 7.231071  |
| Ipo9      | 0 | 0 | 1.38439   |
| Nr2f2     | 0 | 0 | 1.036499  |
| Rab11fip3 | 0 | 0 | 1.182703  |
| Snx10     | 0 | 0 | 13.089417 |
| Cpsf6     | 0 | 0 | 11.84106  |
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| Col14a1   | 0 | 0 | 7.290284  |

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| Ulk3      | 0 | 0 | 6.711193  |
| Prmt4     | 0 | 0 | 1.87786   |
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| Napsa     | 0 | 0 | 1.495946  |
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| Msln1     | 0 | 0 | 6.627018  |
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| P4ha2     | 0 | 0 | 5.85315   |
| Smim26    | 0 | 0 | 2.905188  |
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| C5ar2     | 0 | 0 | 9.145011  |
| Apopt1    | 0 | 0 | 10.363529 |
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| Bpifa5    | 0 | 0 | 4.517131  |
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| B4galnt1  | 0 | 0 | 1.374873  |
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| Tma7      | 0 | 0 | 1.145117  |
| Pmfbp1    | 0 | 0 | 4.201432  |
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| LOC102545 | 0        | 0         | 9.872096   |
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| Tmem150c  | 0        | 0         | 7.431821   |
| Ttc9c     | 0        | 0         | 10.369769  |
| Styk1     | 0        | 0         | 1.200655   |
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| Samd9     | 0        | 0         | 1.230346   |
| Mkl1      | 0        | 0         | 6.584864   |
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| Rbm6      | 0        | 0         | 9.573258   |
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| Fyb2      | 0        | 0         | 3.298835   |
| Agbl2     | 0        | 0         | 1.95292    |
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| Mmp17     | 0        | 0         | 1.689275   |
| Ntrk2     | 0        | 0         | 1.083129   |
| Rnf146    | 0        | 0         | 3.180727   |
| Tmem175   | 0        | 0         | 1.89756    |
| Ddx3x     | 0        | -1.906411 | 27.85399   |
| Ptpn4     | 0        | -1.781789 | 13.107679  |
| Tufm      | 0        | -1.503668 | 11.104597  |
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| Crem      | 8.105336 | 8.388336  | -3.758011  |
| Acvrl1    | 9.62154  | 9.354936  | -3.144438  |
| Phtf2     | 9.942254 | 10.096177 | -3.994784  |
| R3hdm2    | 6.285934 | 6.489448  | -2.370457  |
| Fbxo46    | 8.988018 | 9.524021  | -2.360386  |
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| Cacna1e   | 8.584137 | 11.582256 | -3.230153  |
| Arpp21    | 4.068733 | 6.050337  | -1.657641  |
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| Tpd52l2   | 1.24359  | 2.380149  | -1.19003   |
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| Bbs4      | 2.941469 | 2.930893  | -3.077389  |

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| Dusp22    | 6.233627 | 5.859208  | -7.584901  |
| Acs11     | 1.7749   | 1.264565  | -1.400756  |
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| Rin2      | 8.392468 | 11.558724 | -8.078201  |
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| Osbp16    | 8.059952 | 4.043819  | -7.958371  |
| Kcng2     | 3.303053 | 1.852259  | -3.247863  |
| Srgap2    | 2.645449 | 1.769196  | -3.600792  |
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| Tex10     | 11.0858  | 0         | -10.984619 |
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| Zranb3    | 10.85144 | 0         | -10.749489 |
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| RGD15610  | 10.02995 | 0         | -9.928761  |
| Zfp949    | 10.0272  | 0         | -9.92605   |
| Pacs1     | 13.44761 | 0         | -13.345448 |
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| Phf8      | 12.32913 | 0         | -12.227786 |

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| Taf6      | 12.11143 | 0 | -12.01027 |
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| Flcn      | 9.265962 | 0 | -9.164354 |
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| Pak7      | 9.038877 | 0 | -8.93649  |
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| Egr2      | 8.74264  | 0 | -8.640756 |
| Angel1    | 8.450122 | 0 | -8.348761 |
| Apoo      | 8.4649   | 0 | -8.362518 |
| Poc5      | 8.385099 | 0 | -8.283898 |
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| Rnf225    | 7.662581 | 0 | -7.560504 |
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| Iqch      | 7.368217 | 0 | -7.265784 |
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| Fastk     | 2.263999 | 0 | -2.099962  |
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| Rasal1    | 4.385236 | 0         | -5.326324  |

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| Zmat1     | 1.520915 | 0         | -1.848676  |
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| Clock     | 9.744581 | 8.372627  | 4.552647 |
| LOC108348 | 8.303439 | 6.62651   | 3.433985 |
| Adgrl3    | 8.851837 | 6.238942  | 3.61388  |
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| Elmod2    | 11.07366 | 9.614688  | 2.134282 |
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| Zfyve1    | 1.250184 | 1.183233  | 0        |
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| Usf3      | 1.38624  | 1.299073  | 0        |
| Gabra4    | 4.080448 | 3.81354   | 0        |
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| Ndufs8    | 4.288006 | 3.519483  | 0 |
| Rassf2    | 3.478676 | 2.85226   | 0 |
| Csad      | 8.454988 | 6.784255  | 0 |
| Hivep3    | 2.48161  | 1.995259  | 0 |
| Ulk4      | 5.88343  | 4.268234  | 0 |
| Zbtb5     | 5.304644 | 3.843568  | 0 |
| Lsm14b    | 2.008613 | 1.445268  | 0 |
| Plekhf2   | 6.621895 | 4.940807  | 0 |
| Ypel3     | 2.052966 | 1.526914  | 0 |
| Ttc7a     | 2.790707 | 2.053281  | 0 |
| Rarg      | 5.182815 | 3.786167  | 0 |
| Stau1     | 1.60451  | 1.172546  | 0 |
| Reln      | 2.42071  | 1.833188  | 0 |
| Zcchc12   | 2.121072 | 1.630711  | 0 |
| Zswim4    | 11.37324 | 11.893705 | 0 |
| Glis2     | 4.415475 | 4.609157  | 0 |
| Lrrc8e    | 6.904652 | 7.245846  | 0 |
| Ppip5k1   | 5.134288 | 5.381904  | 0 |
| RGD15638  | 9.603719 | 10.147654 | 0 |
| Kcnc3     | 5.607444 | 5.909357  | 0 |
| Alg12     | 4.006662 | 4.224922  | 0 |
| Cyp2c6v1  | 8.241561 | 8.443694  | 0 |
| Mettl13   | 10.1306  | 10.423328 | 0 |
| Pxn       | 3.400839 | 3.493855  | 0 |
| Fra10ac1  | 8.596082 | 8.855112  | 0 |
| B9d1      | 3.515979 | 3.624936  | 0 |
| Ercc5     | 10.46868 | 10.854386 | 0 |
| Clasp2    | 8.657667 | 8.972735  | 0 |
| Zbtb40    | 8.035391 | 8.337497  | 0 |
| Immt      | 8.457622 | 8.778706  | 0 |
| Ptprd     | 1.770591 | 1.837534  | 0 |
| Ascc3     | 10.30911 | 10.726402 | 0 |
| Car14     | 3.254247 | 3.38778   | 0 |
| Tmem134   | 1.904873 | 1.984172  | 0 |
| Myh7b     | 10.93905 | 10.755068 | 0 |
| LOC102555 | 10.28526 | 10.131312 | 0 |
| Grik3     | 9.576181 | 9.433484  | 0 |
| Dap3      | 8.806514 | 8.669925  | 0 |
| Ube2i     | 8.480793 | 8.347417  | 0 |
| Tbrg4     | 10.62308 | 10.422068 | 0 |
| Agap1     | 9.616275 | 9.438516  | 0 |
| Abca5     | 3.308819 | 3.247025  | 0 |
| Dhrs1     | 5.42867  | 5.331199  | 0 |
| Cd19      | 6.34237  | 6.271585  | 0 |
| LOC103690 | 8.602165 | 8.486284  | 0 |
| Macf1     | 1.208877 | 1.192903  | 0 |

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| Cep126    | 9.789057 | 9.729361  | 0 |
| RGD135951 | 8.634928 | 8.588104  | 0 |
| Sertad3   | 7.888215 | 7.827394  | 0 |
| Patz1     | 9.48206  | 9.482513  | 0 |
| Slitrk6   | 9.287527 | 9.261773  | 0 |
| Slc40a1   | 9.156032 | 9.128787  | 0 |
| Mdm1      | 10.34342 | 10.328689 | 0 |
| Ubl7      | 1.017063 | 1.015438  | 0 |
| Kbtbd2    | 1.054326 | 1.052217  | 0 |
| Aebp1     | 11.33107 | 11.400043 | 0 |
| Scrib     | 9.72928  | 9.767192  | 0 |
| Osbpl8    | 11.64431 | 11.73741  | 0 |
| Kdm3a     | 8.769964 | 8.837571  | 0 |
| Clk2      | 7.75295  | 7.81817   | 0 |
| Usp24     | 2.330509 | 2.356254  | 0 |
| LOC100909 | 9.46616  | 9.612828  | 0 |
| Mtrf1     | 5.653317 | 5.733456  | 0 |
| Nrp1      | 10.15885 | 10.365214 | 0 |
| Mnt       | 2.947783 | 3.006093  | 0 |
| LOC108348 | 8.85989  | 9.006247  | 0 |
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| Wwp1      | 8.387031 | 8.5442    | 0 |
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| Slc44a2   | 3.695956 | 3.761638  | 0 |
| Tmtc3     | 12.21759 | 11.661994 | 0 |
| Ksr1      | 11.58164 | 11.024516 | 0 |
| RGD130461 | 4.098859 | 3.904396  | 0 |
| Mtfr1l    | 1.56864  | 1.493821  | 0 |
| Cdip1     | 14.28561 | 13.697705 | 0 |
| Ogg1      | 2.945846 | 2.822348  | 0 |
| Sec24a    | 1.206487 | 1.159745  | 0 |
| Dock10    | 1.203314 | 1.157873  | 0 |
| Srcap     | 10.18996 | 9.983077  | 0 |
| Ptprr     | 8.603402 | 8.414237  | 0 |
| Gria4     | 8.350216 | 8.173186  | 0 |
| Podxl     | 3.025913 | 2.949664  | 0 |
| Cyb561d1  | 1.692876 | 1.653003  | 0 |
| Zfp385a   | 1.250492 | 1.220292  | 0 |
| Ttc22     | 8.615883 | 8.323498  | 0 |
| Kdelr3    | 6.244659 | 6.035432  | 0 |
| U2af1     | 1.492065 | 1.447407  | 0 |
| Oplah     | 8.771913 | 9.689361  | 0 |
| Zcchc4    | 9.360908 | 10.322955 | 0 |
| Nt5c2     | 8.154301 | 8.990538  | 0 |
| Tulp3     | 1.500097 | 1.645139  | 0 |
| Gata2     | 8.93713  | 9.936751  | 0 |
| Mpp7      | 5.326452 | 5.921684  | 0 |

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| Sema4c    | 10.36823 | 11.479558 | 0        |
| Smarca1   | 5.820832 | 6.455715  | 0        |
| Slc39a4   | 2.672195 | 2.965183  | 0        |
| Ciapi1    | 10.03594 | 10.968438 | 0        |
| Mrps35    | 5.822142 | 6.353525  | 0        |
| Stab2     | 1.820661 | 1.981408  | 0        |
| Carhsp1   | 7.966951 | 8.549143  | 0        |
| Pou2f2    | 7.679343 | 8.254362  | 0        |
| MIh3      | 10.82025 | 11.667661 | 0        |
| Atg2a     | 1.040865 | 1.120936  | 0        |
| Rad1      | 6.598694 | 7.041972  | 0        |
| Trim46    | 2.182838 | 2.334716  | 0        |
| Ctu1      | 8.901541 | 9.941279  | 0        |
| Mfhas1    | 8.09314  | 9.025706  | 0        |
| Castor1   | 5.673599 | 6.358466  | 0        |
| Slc26a6   | 8.599046 | 9.6858    | 0        |
| Fam104b   | 6.644406 | 7.468833  | 0        |
| Nectin2   | 1.204837 | 1.354925  | 0        |
| Aurkb     | 8.183379 | 9.417714  | 0        |
| Arih2     | 5.529636 | 6.369345  | 0        |
| Wdr12     | 6.807094 | 7.800573  | 0        |
| Sbf1      | 2.061912 | 2.356533  | 0        |
| Med1      | 10.77693 | 12.226609 | 0        |
| Fxyd6     | 1.240851 | 1.409781  | 0        |
| Kifc3     | 9.04681  | 10.533077 | 1.523816 |
| Tbc1d25   | 8.618692 | 9.63313   | 1.01247  |
| Pqbp1     | 7.535604 | 8.745259  | 0        |
| Gngt2     | 6.021378 | 6.997649  | 0        |
| Mst1      | 5.518415 | 6.411754  | 0        |
| Smcp2     | 6.67409  | 7.762724  | 0        |
| Tmem206   | 5.075775 | 5.906395  | 0        |
| Unkl      | 10.34681 | 12.090432 | 0        |
| Terf1     | 3.492255 | 4.079103  | 0        |
| Fcgr2a    | 3.949751 | 4.623155  | 0        |
| Elovl1    | 7.222498 | 8.467295  | 0        |
| Osbpl5    | 1.549565 | 1.81901   | 0        |
| LOC100912 | 8.195867 | 9.703597  | 0        |
| Ifi44     | 1.775386 | 2.099549  | 0        |
| Tanc2     | 2.78294  | 3.299012  | 0        |
| Hs2st1    | 3.590278 | 4.232559  | 0        |
| RGD13108  | 2.264768 | 2.663102  | 0        |
| Aifm2     | 2.863476 | 3.421071  | 0        |
| Fam122b   | 6.553476 | 8.11473   | 0        |
| Psd3      | 3.216361 | 3.988259  | 0        |
| Zfp110    | 8.56471  | 10.477684 | 0        |
| Morf4l2   | 1.951054 | 2.383879  | 0        |
| Sfi1      | 2.043743 | 2.486406  | 0        |

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| Cblb     | 1.326344 | 1.607091  | 0         |
| Nfyc     | 7.297786 | 9.652429  | 0         |
| Gpsm1    | 1.467082 | 1.944319  | 0         |
| Npr2     | 1.737029 | 2.32851   | 0         |
| B3gnt2   | 4.181342 | 5.352943  | 0         |
| Tanc1    | 2.820762 | 3.663651  | 0         |
| Naa30    | 2.578161 | 3.24696   | 0         |
| Rpap2    | 3.022398 | 3.838606  | 0         |
| Tmem237  | 1.397199 | 1.768056  | 0         |
| Stard13  | 5.972296 | 8.003675  | 2.125974  |
| Fv1      | 5.406879 | 6.959986  | 1.942822  |
| Eif4g1   | 2.112412 | 3.270091  | 1.524783  |
| Htt      | 13.265   | 26.991031 | 0         |
| Cln6     | 1.061649 | 1.886816  | 0         |
| Kcna2    | 6.921604 | 10.488409 | 0         |
| Ppt2     | 2.70445  | 3.987623  | 0         |
| Pcgf5    | 2.554665 | 3.725029  | 0         |
| Optn     | 1.716687 | 2.499662  | 0         |
| Rnf40    | 1.108998 | 1.55784   | 0         |
| Gtpbp2   | 1.081578 | 1.524763  | 0         |
| Phldb1   | 2.020857 | 3.254312  | 0         |
| Gigyf1   | 1.629433 | 2.662253  | 0         |
| Gtf2h4   | 1.043211 | 1.756603  | 0         |
| Aqp4     | 1.593214 | 2.503646  | 0         |
| Celf2    | 1.322098 | 2.096498  | 0         |
| RGD13057 | 1.13239  | 1.75601   | 0         |
| Zc3h4    | 12.03533 | 9.619881  | 9.449618  |
| Cacna1d  | 11.05341 | 9.262183  | 9.265031  |
| Kcnk4    | 10.21521 | 9.237564  | 8.853682  |
| Coro6    | 8.65725  | 8.212474  | 7.483826  |
| Lrrfip2  | 7.692558 | 6.849899  | 5.952855  |
| Cpeb4    | 2.303108 | 1.862461  | 1.600525  |
| Smarcal1 | 10.24411 | 11.120023 | 6.977076  |
| Npffr1   | 8.787943 | 9.008153  | 7.233538  |
| Cdk2ap1  | 2.007275 | 2.753001  | 1.969535  |
| Smg7     | 1.170804 | 1.59835   | 1.244042  |
| Prcc2b   | 1.161835 | 1.460718  | 1.01309   |
| Ipcef1   | 9.521953 | 9.138292  | 11.766542 |
| Kcnn1    | 7.832731 | 6.757141  | 9.55576   |
| MGC95210 | 7.909129 | 8.019841  | 8.022875  |
| Fam184a  | 7.723681 | 8.064633  | 8.157972  |
| Mtmr11   | 9.92169  | 9.136343  | 9.578951  |
| Scoc     | 2.025383 | 1.828924  | 1.862598  |
| Cnot2    | 1.827908 | 1.73886   | 1.726509  |
| Mok      | 7.341459 | 8.802801  | 7.805402  |
| Zfp354a  | 6.745046 | 9.430676  | 9.121599  |
| Uckl1    | 6.722591 | 8.627304  | 8.630898  |

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| Wdr62     | 5.853788 | 7.625264 | 7.627816  |
| Ablim2    | 7.690089 | 8.691067 | 8.692788  |
| Pot1      | 7.499814 | 8.569611 | 8.572984  |
| Zmynd8    | 6.194206 | 6.889047 | 7.439629  |
| Plec      | 1.248758 | 1.419888 | 1.55658   |
| Rnf32     | 3.434033 | 8.901282 | 7.338283  |
| Bcl11a    | 1.67528  | 4.16101  | 3.844401  |
| Ikzf4     | 4.50139  | 8.519815 | 8.522255  |
| Phf21a    | 1.031889 | 1.605101 | 1.90399   |
| Lysmd2    | 1.516119 | 2.669951 | 1.823049  |
| Bahd1     | 1.114992 | 1.862691 | 1.597988  |
| Cdh8      | 3.979356 | 2.768224 | 10.963328 |
| Rere      | 1.604379 | 1.709198 | 6.57619   |
| Fbxw2     | 1.118902 | 1.434978 | 3.396195  |
| Cpne5     | 1.496062 | 1.214881 | 7.235632  |
| Nrp2      | 1.367277 | 1.861665 | 9.953246  |
| Xrcc4     | 1.33467  | 1.573048 | 8.102508  |
| Mta1      | 1.128743 | 2.324898 | 8.740428  |
| Btrc      | 0        | 2.147624 | 8.964331  |
| Usp46     | 0        | 1.389457 | 5.600876  |
| Oxr1      | 0        | 1.818622 | 6.319341  |
| Evc       | 1.377334 | 3.597278 | 5.147872  |
| Fmnl1     | 0        | 3.507338 | 5.534447  |
| Nat14     | 0        | 1.025308 | 1.61887   |
| Cux1      | 0        | 7.040985 | 10.578369 |
| Pdzd11    | 0        | 1.19579  | 1.802458  |
| Nek9      | 0        | 4.587666 | 6.664341  |
| Arhgap9   | 0        | 5.579518 | 6.800992  |
| Fam81a    | 0        | 1.664856 | 2.028595  |
| Errfi1    | 0        | 2.851344 | 3.468065  |
| Jpt2      | 0        | 6.284417 | 7.689928  |
| Fen1      | 0        | 8.432335 | 10.184531 |
| Msantd4   | 0        | 8.379208 | 10.334054 |
| Scyl3     | 0        | 3.486969 | 4.286512  |
| Slc38a9   | 0        | 3.499776 | 4.122494  |
| Tmem91    | 0        | 4.986728 | 5.935544  |
| Fmo1      | 0        | 7.388153 | 9.850994  |
| Odf2l     | 0        | 7.921902 | 10.506785 |
| Aurkaip1  | 0        | 2.855014 | 3.60675   |
| LOC100905 | 0        | 6.51214  | 8.246288  |
| Grm2      | 0        | 8.98146  | 11.433691 |
| Nfib      | 0        | 1.695657 | 2.188417  |
| Ppp1r12c  | 0        | 1.747025 | 2.241298  |
| Iffo1     | 0        | 1.383921 | 1.804073  |
| Rnf112    | 0        | 1.005185 | 1.303326  |
| Sirt5     | 0        | 6.266182 | 8.143504  |
| Inpp5a    | 0        | 1.154235 | 2.869132  |

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| LOC500684 | 0        | 1.076768  | 1.890739  |
| Rhbdf1    | 0        | 5.639506  | 10.285645 |
| Ptpdc1    | 0        | 5.633826  | 11.567564 |
| Fbf1      | 2.325558 | 9.341137  | 5.36461   |
| Erbin     | 1.075521 | 3.088041  | 2.00863   |
| Csrnp1    | 0        | 9.085251  | 4.606814  |
| Ggact     | 0        | 8.442874  | 4.504554  |
| Susd6     | 0        | 6.961297  | 3.820254  |
| Tmem169   | 0        | 10.746997 | 5.862205  |
| Gpsm2     | 0        | 6.331762  | 3.951388  |
| Kcnab3    | 0        | 6.33526   | 3.961488  |
| Kcnh6     | 0        | 6.265588  | 3.942183  |
| Pik3c2b   | 0        | 8.845811  | 5.461539  |
| Shox2     | 0        | 7.697262  | 4.730288  |
| Dpf2      | 0        | 1.843026  | 1.06038   |
| Tmf1      | 0        | 7.596483  | 4.40797   |
| Smim3     | 0        | 2.598947  | 1.548718  |
| Tulp4     | 0        | 11.875548 | 6.978207  |
| Kif1c     | 0        | 1.644456  | 1.232708  |
| Il4r      | 0        | 8.948512  | 6.619267  |
| Nadk      | 0        | 1.835603  | 1.357127  |
| Nkpd1     | 0        | 1.595442  | 1.149595  |
| Plcd3     | 0        | 4.26442   | 3.087082  |
| Ssfa2     | 0        | 3.417868  | 2.418504  |
| Git2      | 0        | 3.269498  | 2.228361  |
| Icam2     | 0        | 6.108842  | 4.182874  |
| Lrrc45    | 0        | 7.605948  | 5.276581  |
| Ubr5      | 0        | 1.664593  | 1.145996  |
| Robo1     | 0        | 8.684186  | 5.707853  |
| Trpc1     | 0        | 1.931858  | 1.284168  |
| Slc25a25  | 1.375614 | 8.986169  | 8.026581  |
| Susd4     | 1.177819 | 8.902662  | 8.904899  |
| Brat1     | 0        | 1.911416  | 1.62117   |
| Ammecr1l  | 0        | 8.159763  | 6.978703  |
| Deptor    | 0        | 6.431446  | 5.51342   |
| Usp53     | 0        | 6.591669  | 5.645929  |
| Grin1     | 0        | 1.2007    | 1.004463  |
| Col16a1   | 0        | 12.145963 | 10.242354 |
| Itga3     | 0        | 1.618563  | 1.362805  |
| Slc24a4   | 0        | 3.795382  | 3.192251  |
| Klhl36    | 0        | 4.081582  | 3.391422  |
| Pnck      | 0        | 1.349695  | 1.118583  |
| Ccdc62    | 0        | 3.021808  | 2.458705  |
| Marveld2  | 0        | 7.692005  | 6.22811   |
| Slx4ip    | 0        | 10.22142  | 8.28727   |
| Npy2r     | 0        | 6.888036  | 5.436975  |
| Eml4      | 0        | 1.246293  | 1.076088  |

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| Epn2      | 0 | 1.674867 | 1.449362  |
| Clmn      | 0 | 2.845756 | 2.478045  |
| Stk35     | 0 | 2.175598 | 1.909142  |
| Hmgcs2    | 0 | 1.142776 | 1.02058   |
| Dyrk1a    | 0 | 6.999058 | 6.367889  |
| Zcchc17   | 0 | 1.921231 | 1.754756  |
| RGD130871 | 0 | 4.276235 | 3.86483   |
| Ampd2     | 0 | 1.353388 | 1.423491  |
| Arsg      | 0 | 9.289716 | 9.733238  |
| Aars      | 0 | 1.460943 | 1.569992  |
| Sh3glb2   | 0 | 1.295473 | 1.389044  |
| Cenpo     | 0 | 6.351727 | 7.14075   |
| Mppe1     | 0 | 5.039632 | 5.690542  |
| Nde1      | 0 | 1.697874 | 1.893868  |
| Ppil2     | 0 | 2.276873 | 2.532991  |
| Eef1d     | 0 | 1.130417 | 1.297547  |
| Otub2     | 0 | 3.150804 | 3.615044  |
| Zfp17     | 0 | 9.281346 | 10.694204 |
| Eif4g3    | 0 | 1.143613 | 1.080577  |
| LOC100911 | 0 | 8.627985 | 7.999491  |
| Bcl2l1    | 0 | 1.915437 | 1.78862   |
| Gfra1     | 0 | 2.014475 | 1.880619  |
| Zfp746    | 0 | 3.773034 | 3.539879  |
| Lsp1      | 0 | 1.84124  | 1.776504  |
| Upf1      | 0 | 4.052203 | 3.886746  |
| Taok2     | 0 | 1.926795 | 1.87522   |
| Mark4     | 0 | 2.455904 | 2.42528   |
| Neil1     | 0 | 1.241152 | 1.225125  |
| Pex2      | 0 | 1.090918 | 1.070317  |
| Adora1    | 0 | 2.386667 | 2.372152  |
| Fam13b    | 0 | 1.518225 | 1.507023  |
| LOC102553 | 0 | 4.471091 | 4.430474  |
| Cyp2b1    | 0 | 7.735182 | 7.738542  |
| Cdh20     | 0 | 7.985025 | 7.988619  |
| Tmem267   | 0 | 7.787537 | 7.790997  |
| Hemk1     | 0 | 8.304539 | 8.30833   |
| Lifr      | 0 | 7.867051 | 7.870637  |
| LOC102554 | 0 | 5.674173 | 5.676786  |
| RGD156271 | 0 | 7.805214 | 7.808804  |
| Cyp2b2    | 0 | 7.497961 | 7.50086   |
| Cfap100   | 0 | 5.68962  | 5.691814  |
| Far1      | 0 | 8.205385 | 8.208552  |
| Lins1     | 0 | 8.877628 | 8.881081  |
| Tec       | 0 | 9.061188 | 9.064714  |
| Snx24     | 0 | 7.135236 | 7.138043  |
| Fat2      | 0 | 7.319609 | 7.322663  |
| Gprc5c    | 0 | 8.635567 | 8.63906   |

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| Slc17a6   | 0 | 8.325981  | 8.329333  |
| Slc45a3   | 0 | 8.565581  | 8.569095  |
| Zfp819    | 0 | 8.32627   | 8.32968   |
| Hspa12a   | 0 | 8.439469  | 8.442499  |
| Plekha4   | 0 | 7.727816  | 7.730624  |
| Gsto2     | 0 | 7.999846  | 8.002816  |
| Tmem143   | 0 | 9.328979  | 9.33242   |
| Tex9      | 0 | 9.04803   | 9.051453  |
| Ggta1     | 0 | 9.257135  | 9.260316  |
| Glmn      | 0 | 9.754758  | 9.758124  |
| Sec11a    | 0 | 7.858002  | 7.860718  |
| Trim9     | 0 | 9.514931  | 9.518266  |
| Zfp52     | 0 | 8.326455  | 8.329405  |
| Exoc3l1   | 0 | 8.412733  | 8.415575  |
| Flnb      | 0 | 9.985594  | 9.988967  |
| Klhl23    | 0 | 10.172345 | 10.175723 |
| Gdpc5     | 0 | 8.999153  | 9.002022  |
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| Tjp1      | 0 | 11.081283 | 11.08489  |
| Dph5      | 0 | 9.380656  | 9.383518  |
| Mitf      | 0 | 10.196166 | 10.199301 |
| Ttll3     | 0 | 10.305999 | 10.309188 |
| Ghsr      | 0 | 8.758852  | 8.761581  |
| Trim16    | 0 | 7.26725   | 7.269522  |
| Stpg1     | 0 | 10.199323 | 10.202375 |
| Cabyr     | 0 | 8.134507  | 8.136789  |
| Igf2      | 0 | 8.366807  | 8.36914   |
| LOC100911 | 0 | 10.021909 | 10.024676 |
| Lrrc49    | 0 | 10.633848 | 10.636939 |
| Popdc2    | 0 | 8.112004  | 8.11434   |
| Rccd1     | 0 | 7.44822   | 7.450368  |
| Xrn1      | 0 | 10.89943  | 10.902522 |
| Ankmy2    | 0 | 12.926214 | 12.929581 |
| Fars2     | 0 | 9.508652  | 9.511162  |
| Hapln1    | 0 | 7.702155  | 7.704185  |
| Zfp956    | 0 | 10.028097 | 10.03074  |
| Serac1    | 0 | 8.591284  | 8.593597  |
| Slc2a9    | 0 | 9.73947   | 9.742108  |
| Galk2     | 0 | 9.439112  | 9.441377  |
| LOC103685 | 0 | 11.473796 | 11.4766   |
| Lair1     | 0 | 9.296797  | 9.298986  |
| Zcchc2    | 0 | 11.051777 | 11.054342 |
| Jph1      | 0 | 8.970466  | 8.972699  |
| Tgif2     | 0 | 8.395469  | 8.397567  |
| Synpo2    | 0 | 7.531303  | 7.533206  |
| Cep57l1   | 0 | 7.744399  | 7.7461    |
| Tiam2     | 0 | 9.766551  | 9.768779  |

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| Tmem63a   | 0        | 8.358318  | 8.360205  |
| Usp37     | 0        | 8.226974  | 8.22867   |
| Wdr78     | 0        | 8.955375  | 8.957222  |
| Tcf25     | 0        | 1.37092   | 1.369148  |
| Kcnq2     | 0        | 1.030338  | 1.027397  |
| Tbcd      | 0        | 2.672383  | 2.662457  |
| Atp2b3    | 0        | 1.203059  | 1.217301  |
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| Synpo     | 0        | 2.995349  | 3.009274  |
| Hdac7     | -2.20046 | 5.664552  | 3.286073  |
| Dock9     | -1.99812 | 4.455009  | 2.840067  |
| Pnpla4    | -2.63819 | 5.406837  | 3.416604  |
| Spats2    | -4.06599 | 9.575752  | 9.577656  |
| Phactr2   | -4.17589 | 8.749175  | 8.75112   |
| Mbd6      | -5.34615 | 10.860774 | 10.863237 |
| Cuedc2    | -5.52792 | 9.52753   | 9.529774  |
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| Pbrm1     | 3.252433 | 8.289494  | 0         |
| Ago1      | 2.181495 | 5.491727  | 0         |
| Arl13b    | 2.678657 | 9.0332    | 0         |
| Tsen2     | 1.299717 | 3.837496  | 0         |
| Snap91    | 1.923902 | 7.898735  | 1.02868   |
| Zfp612    | 1.81937  | 11.393654 | 0         |
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| Dpf1      | 1.582887 | 8.561014  | 0         |
| LOC100911 | 1.438037 | 6.278095  | 2.486679  |
| Spsb3     | 1.196161 | 5.220905  | 1.668566  |
| Foxp1     | 1.045427 | 4.398838  | 1.54497   |
| Apc       | 0        | 5.002359  | 1.192371  |
| Ppm1f     | 0        | 7.306501  | 1.892512  |
| Cntrl     | 0        | 5.640979  | 2.278718  |
| Lmo7      | 0        | 5.394199  | 2.188889  |
| Cdc42ep2  | 0        | 7.841048  | 3.08572   |
| Nadsyn1   | 0        | 3.97666   | 1.55148   |
| Pik3cb    | 0        | 3.903005  | 1.50873   |
| Fahd2a    | 0        | 5.585271  | 2.669077  |
| Ppp1r32   | 0        | 4.148521  | 1.943265  |
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| Trim15    | 0        | 7.744245  | 0         |
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| Kank3     | 0        | 2.459271  | 0         |
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| Arhgap15  | 0        | 1.542763  | 0         |

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| Map3k10   | 0 | 4.844164  | 0 |
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| Ccdc71    | 0 | 1.184667  | 0 |
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| Kcnb2     | 0 | 4.710314  | 0 |

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| Furin     | 0 | 1.46452   | 0 |
| Rfc3      | 0 | 7.137373  | 0 |
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| Ccar1     | 0 | 1.873961  | 0 |
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| Prodh1    | 0 | 1.506587  | 0 |
| Mthfd2l   | 0 | 1.35139   | 0 |
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| Tdrd5     | 0 | 1.363491 | 0 |
| Slc41a3   | 0 | 5.22476  | 0 |
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| Mep1a     | 0 | 5.965514 | 0 |
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| Senp7     | -1.95663 | 12.120684 | 0         |
| Jarid2    | -2.41793 | 9.848127  | 0         |
| Begain    | 1.083918 | 10.654551 | -1.256808 |
| Cic       | 0        | 6.853523  | -1.057127 |
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| Meis3     | 1.153783 | 9.606976  | -2.341751 |
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| Gpatch4   | 0        | 6.081461  | -3.109061 |
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| Tchp      | 0        | 1.879386  | -1.066294 |
| Zfp266    | -1.01708 | 4.980858  | -1.663259 |
| Pacsin2   | -2.48758 | 9.468616  | 2.738908  |
| Arhgef7   | -1.44759 | 2.843397  | 0         |
| Togaram2  | -3.16731 | 5.826462  | 0         |
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| Polm      | -3.67228 | 8.894233  | 0         |
| Fgfr3     | -5.81406 | 8.098879  | 1.972049  |
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| Gtf2i     | 1.532413 | 0         | -6.797538 |

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| Cpamd8    | 0        | 0 | -3.536986  |
| Aldh3a1   | 0        | 0 | -6.635749  |
| Glr5      | 0        | 0 | -2.041358  |
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| Chka      | 0        | 0 | -1.527811  |
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| Sugp2     | 0        | 0 | -1.085166  |
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| Fam219a   | 0        | 0 | -1.708878  |
| P2ry14    | 0        | 0 | -4.444879  |
| Gpr88     | 0        | 0 | -8.74101   |
| Zc2hc1a   | 0        | 0 | -1.447137  |
| Cep290    | 0        | 0 | -4.275108  |
| Parvb     | 0        | 0 | -6.740585  |
| Rn45s     | 0        | 0 | -1.164627  |
| Klf15     | 0        | 0 | -3.799871  |
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| Anapc10   | 0        | 0 | -7.323455  |
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| Cxcl12    | 0        | 0 | -3.832315  |
| Atp5s     | 0        | 0 | -6.580592  |
| Ptpn      | 0        | 0 | -4.713802  |
| Aftph     | 0        | 0 | -1.325924  |
| Dda1      | 0        | 0 | -1.502372  |
| Nkx3-1    | 0        | 0 | -1.467682  |
| Adal      | 0        | 0 | -1.162556  |
| RGD156301 | 0        | 0 | -2.54814   |
| Arhgap32  | 0        | 0 | -1.600275  |
| Auh       | 0        | 0 | -4.212123  |
| Col9a2    | 0        | 0 | -1.63286   |
| Accsl     | 0        | 0 | -6.259955  |
| Asah2     | 0        | 0 | -4.879904  |
| LOC100912 | 0        | 0 | -6.921661  |
| Prkaca    | 0        | 0 | -5.994254  |
| Cyp4b1    | 0        | 0 | -2.842888  |
| LOC100125 | 0        | 0 | -1.231284  |
| Adcy3     | 0        | 0 | -1.353954  |
| Cln8      | 0        | 0 | -9.848106  |
| Pcdh8     | 0        | 0 | -1.34123   |
| Gna14     | 0        | 0 | -7.322984  |

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| Grip2     | 0 | 0 | -8.360648  |
| Drd1      | 0 | 0 | -1.907926  |
| Ddr1      | 0 | 0 | -1.675054  |
| Gimap7    | 0 | 0 | -1.769553  |
| Cox4i2    | 0 | 0 | -7.848852  |
| Rnf44     | 0 | 0 | -1.911107  |
| Atl3      | 0 | 0 | -5.789667  |
| Nup62     | 0 | 0 | -1.441011  |
| Gja4      | 0 | 0 | -1.023643  |
| Col5a3    | 0 | 0 | -5.852392  |
| Armcx2    | 0 | 0 | -10.089164 |
| Alb       | 0 | 0 | -1.902249  |
| Clcc1     | 0 | 0 | -9.342373  |
| Uevld     | 0 | 0 | -4.731043  |
| Txn14b    | 0 | 0 | -1.477883  |
| Ifna4     | 0 | 0 | -5.688574  |
| Apob      | 0 | 0 | -2.937629  |
| Slfn13    | 0 | 0 | -8.76551   |
| Sult1c3   | 0 | 0 | -7.085098  |
| Akr1d1    | 0 | 0 | -3.77668   |
| Tnfrsf14  | 0 | 0 | -6.682646  |
| Myl1      | 0 | 0 | -3.588333  |
| Zfp407    | 0 | 0 | -9.392321  |
| LOC102551 | 0 | 0 | -1.563854  |
| Prdm15    | 0 | 0 | -6.713397  |
| Socs1     | 0 | 0 | -1.46431   |
| Cdo1      | 0 | 0 | -1.44896   |
| Mybph     | 0 | 0 | -7.222316  |
| LOC100912 | 0 | 0 | -5.96916   |
| Gapt      | 0 | 0 | -7.7481    |
| Khk       | 0 | 0 | -7.412009  |
| Wdr60     | 0 | 0 | -9.667393  |
| Ppil3     | 0 | 0 | -4.85318   |
| Lrrc4b    | 0 | 0 | -1.352066  |
| Armc3     | 0 | 0 | -7.471093  |
| Crp       | 0 | 0 | -2.871295  |
| Cfap70    | 0 | 0 | -1.450426  |
| NEWGENE_  | 0 | 0 | -2.777667  |
| Socs2     | 0 | 0 | -3.890102  |
| Evi5      | 0 | 0 | -10.367723 |
| Rgs9bp    | 0 | 0 | -6.217332  |
| Kif15     | 0 | 0 | -1.082793  |
| Trib3     | 0 | 0 | -4.57608   |
| Hao2      | 0 | 0 | -6.937201  |
| Kdf1      | 0 | 0 | -5.881469  |
| Ankrd34b  | 0 | 0 | -1.379663  |
| Agrn      | 0 | 0 | -1.215906  |

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| NEWGENE_  | 0 | 0 | -2.557212  |
| Fbxl8     | 0 | 0 | -7.476454  |
| Hsd3b5    | 0 | 0 | -7.548154  |
| Lmo1      | 0 | 0 | -1.176566  |
| Ceacam1   | 0 | 0 | -9.347515  |
| Zfp213    | 0 | 0 | -8.436501  |
| Lcp1      | 0 | 0 | -1.118746  |
| P2ry13    | 0 | 0 | -2.710759  |
| Ddx3      | 0 | 0 | -10.168663 |
| Tmed6     | 0 | 0 | -5.209819  |
| LOC102549 | 0 | 0 | -4.955436  |
| C4bpa     | 0 | 0 | -3.500726  |
| Abhd10    | 0 | 0 | -1.442823  |
| Zmym4     | 0 | 0 | -11.626981 |
| Igsf1     | 0 | 0 | -8.607788  |
| Zdhhc17   | 0 | 0 | -1.641488  |
| Abca17    | 0 | 0 | -1.216123  |
| Cx3cl1    | 0 | 0 | -1.17383   |
| Ccdc148   | 0 | 0 | -3.846697  |
| Fam91a1   | 0 | 0 | -3.173622  |
| Cacnb1    | 0 | 0 | -1.17652   |
| Magohb    | 0 | 0 | -1.19798   |
| Kif27     | 0 | 0 | -8.345345  |
| Cers1     | 0 | 0 | -1.313502  |
| Acbd6     | 0 | 0 | -6.719088  |
| Pik3r1    | 0 | 0 | -1.307617  |
| Rps6ka1   | 0 | 0 | -9.490702  |
| Psmg1     | 0 | 0 | -1.595798  |
| Akap17a   | 0 | 0 | -9.330922  |
| Ube2k     | 0 | 0 | -1.109069  |
| RGD156510 | 0 | 0 | -1.609488  |
| Plgrkt    | 0 | 0 | -7.590654  |
| Cort      | 0 | 0 | -1.50249   |
| Gk5       | 0 | 0 | -1.124536  |
| Haus4     | 0 | 0 | -3.613046  |
| Prickle2  | 0 | 0 | -2.176402  |
| Pigc      | 0 | 0 | -7.966401  |
| Tmem2     | 0 | 0 | -9.209357  |
| Per1      | 0 | 0 | -3.322506  |
| Pear1     | 0 | 0 | -6.872757  |
| Cfhr1     | 0 | 0 | -7.092668  |
| Itih4     | 0 | 0 | -1.957215  |
| LOC103692 | 0 | 0 | -1.153174  |
| C2cd2l    | 0 | 0 | -4.971568  |
| Gucy1b2   | 0 | 0 | -7.364645  |
| Fam192a   | 0 | 0 | -2.686504  |
| LOC108351 | 0 | 0 | -1.363585  |

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| Cyp2e1    | 0 | 0 | -2.437771  |
| Vash2     | 0 | 0 | -8.16894   |
| Bicd1     | 0 | 0 | -4.186709  |
| Sidt1     | 0 | 0 | -2.012135  |
| Pofut1    | 0 | 0 | -2.410181  |
| Catsperd  | 0 | 0 | -7.432789  |
| Crtam     | 0 | 0 | -5.087392  |
| Herc1     | 0 | 0 | -2.332225  |
| Mical2    | 0 | 0 | -1.045974  |
| Cdh10     | 0 | 0 | -1.241461  |
| Anxa1     | 0 | 0 | -4.886513  |
| Hsd11b1   | 0 | 0 | -1.071107  |
| Gp1bb     | 0 | 0 | -7.051189  |
| Gas2      | 0 | 0 | -6.185812  |
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| Apobec3b  | 0 | 0 | -6.789373  |
| Mid1      | 0 | 0 | -7.481848  |
| Stard4    | 0 | 0 | -1.38054   |
| Gucy2e    | 0 | 0 | -6.607489  |
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| Snpc4     | 0 | 0 | -10.944058 |
| Tfrc      | 0 | 0 | -1.373145  |
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| Ptgfr     | 0 | 0 | -2.889471  |
| Slc37a3   | 0 | 0 | -9.527445  |
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| Tnfrsf8   | 0 | 0 | -2.787665  |
| Med25     | 0 | 0 | -5.755461  |
| Ms4a4a    | 0 | 0 | -5.82201   |
| Lrp12     | 0 | 0 | -1.738998  |
| Atxn3     | 0 | 0 | -2.171214  |
| Tmprss6   | 0 | 0 | -1.185444  |
| Arrb1     | 0 | 0 | -5.675694  |
| LOC108350 | 0 | 0 | -4.643896  |
| RGD13062  | 0 | 0 | -1.22754   |
| Lig3      | 0 | 0 | -2.993989  |
| Wdr93     | 0 | 0 | -1.306188  |
| Zfp184    | 0 | 0 | -8.563844  |
| Zfp143    | 0 | 0 | -2.21743   |
| Mib2      | 0 | 0 | -1.017664  |
| LOC297568 | 0 | 0 | -2.682568  |
| Ifitm1    | 0 | 0 | -7.239957  |
| Pcm1      | 0 | 0 | -11.274147 |
| Slc26a8   | 0 | 0 | -1.236264  |
| Lilra5    | 0 | 0 | -4.865436  |
| Tmem56    | 0 | 0 | -6.418899  |
| Adar      | 0 | 0 | -8.56793   |

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| Alg11     | 0 | 0 | -12.688839 |
| Clpb      | 0 | 0 | -3.584929  |
| Map4k4    | 0 | 0 | -1.047395  |
| Mettl9    | 0 | 0 | -3.522814  |
| Zfp939    | 0 | 0 | -4.367477  |
| Sgsm3     | 0 | 0 | -2.075116  |
| Mtif3     | 0 | 0 | -1.055201  |
| Fam53a    | 0 | 0 | -3.127158  |
| Timd2     | 0 | 0 | -4.598448  |
| Kcnj4     | 0 | 0 | -6.766248  |
| Dtwd1     | 0 | 0 | -5.949971  |
| Ptpn5     | 0 | 0 | -3.992577  |
| Bbs9      | 0 | 0 | -1.933882  |
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| Cyp2d2    | 0 | 0 | -1.99833   |
| Cd47      | 0 | 0 | -1.289924  |
| Ikzf1     | 0 | 0 | -7.449435  |
| Tor1aip2  | 0 | 0 | -1.014782  |
| Proser2   | 0 | 0 | -8.776881  |
| Snx2      | 0 | 0 | -5.324222  |
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| Lyc2      | 0 | 0 | -7.649664  |
| Trappc2b  | 0 | 0 | -3.769335  |
| Smg9      | 0 | 0 | -9.70978   |
| Arhgap44  | 0 | 0 | -9.285469  |
| Tyk2      | 0 | 0 | -1.574171  |
| Nbr1      | 0 | 0 | -1.037125  |
| Golm1     | 0 | 0 | -5.595406  |
| Spns1     | 0 | 0 | -4.939199  |
| Kcne2     | 0 | 0 | -6.125768  |
| Map3k7cl  | 0 | 0 | -8.083162  |
| LOC103693 | 0 | 0 | -3.010088  |
| Kcnk2     | 0 | 0 | -1.064005  |
| Rbm46     | 0 | 0 | -6.279305  |
| Sprtn     | 0 | 0 | -1.816528  |
| NEWGENE_  | 0 | 0 | -2.269507  |
| Mecr      | 0 | 0 | -1.813088  |
| Egfm1     | 0 | 0 | -8.403444  |
| Dock3     | 0 | 0 | -1.05382   |
| Cnih2     | 0 | 0 | -1.239439  |
| Cntnap5b  | 0 | 0 | -4.449452  |
| Gabra1    | 0 | 0 | -5.1819    |
| Gpr161    | 0 | 0 | -2.915269  |
| Pced1a    | 0 | 0 | -9.133919  |
| Psen2     | 0 | 0 | -4.952527  |
| LOC100912 | 0 | 0 | -8.488516  |
| Mrc2      | 0 | 0 | -2.553572  |

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| Ubqln4   | 0 | 0 | -2.47543  |
| Dnm1l    | 0 | 0 | -1.244981 |
| Hps3     | 0 | 0 | -1.49841  |
| Ercc6l   | 0 | 0 | -3.605989 |
| Cd101    | 0 | 0 | -7.062538 |
| Zdhhc4   | 0 | 0 | -4.799595 |
| Alg14    | 0 | 0 | -5.065092 |
| Zbtb1    | 0 | 0 | -2.733885 |
| Doc2a    | 0 | 0 | -9.984768 |
| Dpy19l3  | 0 | 0 | -5.171229 |
| Dus4l    | 0 | 0 | -5.364861 |
| Hrg      | 0 | 0 | -7.413901 |
| Spock2   | 0 | 0 | -7.321181 |
| Il3ra    | 0 | 0 | -2.287681 |
| Ldlrad1  | 0 | 0 | -2.938686 |
| Rsph3    | 0 | 0 | -7.516163 |
| Vwa2     | 0 | 0 | -4.661193 |
| Me1      | 0 | 0 | -2.813291 |
| Slc4a4   | 0 | 0 | -1.334307 |
| Pitpnm1  | 0 | 0 | -1.612757 |
| Zeb2     | 0 | 0 | -1.748178 |
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| Zdhhc16  | 0 | 0 | -1.005637 |
| Agpat4   | 0 | 0 | -1.160136 |
| Tmem79   | 0 | 0 | -7.817945 |
| Bcat2    | 0 | 0 | -1.958786 |
| Cyp2ac1  | 0 | 0 | -6.756852 |
| Pif1     | 0 | 0 | -6.049788 |
| Muc15    | 0 | 0 | -5.240815 |
| Fetub    | 0 | 0 | -6.169149 |
| Spef1    | 0 | 0 | -6.72393  |
| Hpse     | 0 | 0 | -1.195474 |
| Tsen54   | 0 | 0 | -5.633251 |
| Ccdc42   | 0 | 0 | -1.241562 |
| Suv39h1  | 0 | 0 | -5.002477 |
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| Ap4e1    | 0 | 0 | -9.604373 |
| Tmem161a | 0 | 0 | -8.413817 |
| Sorbs1   | 0 | 0 | -1.3132   |
| Mbtd1    | 0 | 0 | -5.590623 |
| Taf5l    | 0 | 0 | -4.525458 |
| Lcn8     | 0 | 0 | -3.16085  |
| Spop     | 0 | 0 | -8.827327 |
| Aqp5     | 0 | 0 | -3.559972 |
| Itga7    | 0 | 0 | -1.64922  |

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| Zfp142    | 0 | 0 | -12.316038 |
| Ppfibp2   | 0 | 0 | -5.642716  |
| Pzp       | 0 | 0 | -1.9304    |
| Pogk      | 0 | 0 | -2.612526  |
| Cfap126   | 0 | 0 | -3.198082  |
| Ebag9     | 0 | 0 | -10.644541 |
| Eif2d     | 0 | 0 | -1.660755  |
| Galnt16   | 0 | 0 | -3.414686  |
| Jak3      | 0 | 0 | -10.30107  |
| Ttc39a    | 0 | 0 | -5.744495  |
| Otop2     | 0 | 0 | -3.397641  |
| Ndufa9    | 0 | 0 | -2.85076   |
| LOC100912 | 0 | 0 | -6.841675  |
| Ints6     | 0 | 0 | -1.192026  |
| Ttk       | 0 | 0 | -7.508688  |
| Prpf40b   | 0 | 0 | -1.944252  |
| Ms4a14    | 0 | 0 | -4.569497  |
| Mapk14    | 0 | 0 | -1.081878  |
| Arhgdib   | 0 | 0 | -7.371928  |
| Sptlc1    | 0 | 0 | -4.562114  |
| Tex15     | 0 | 0 | -9.378767  |
| Nfasc     | 0 | 0 | -1.578567  |
| Rasgrp3   | 0 | 0 | -8.271071  |
| RGD15656  | 0 | 0 | -3.21854   |
| Dock6     | 0 | 0 | -4.766203  |
| Fnip2     | 0 | 0 | -3.190321  |
| Smc5      | 0 | 0 | -10.662621 |
| Ezh1      | 0 | 0 | -1.68939   |
| Serpina3n | 0 | 0 | -3.024028  |
| Dido1     | 0 | 0 | -11.008645 |
| Fam129c   | 0 | 0 | -6.024007  |
| Kif18a    | 0 | 0 | -6.851023  |
| Setd5     | 0 | 0 | -1.503594  |
| Pced1b    | 0 | 0 | -3.981976  |
| Dbnidd2   | 0 | 0 | -4.036959  |
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| Creb3l3   | 0 | 0 | -6.738892  |
| Hs3st3b1  | 0 | 0 | -6.718812  |
| Npb       | 0 | 0 | -1.553021  |
| Lims1     | 0 | 0 | -8.271248  |
| Fkbp7     | 0 | 0 | -1.126585  |
| Plce1     | 0 | 0 | -5.115881  |
| Atp8b2    | 0 | 0 | -2.646995  |
| Csf2ra    | 0 | 0 | -7.019324  |
| Gpat2     | 0 | 0 | -2.021265  |
| LOC102554 | 0 | 0 | -4.463754  |

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| Plxnb2    | 0 | 0 | -4.790598  |
| Slc25a2   | 0 | 0 | -1.119285  |
| Slc2a6    | 0 | 0 | -1.290096  |
| LOC103685 | 0 | 0 | -1.141013  |
| Mpp3      | 0 | 0 | -6.788034  |
| Zfp717    | 0 | 0 | -1.417257  |
| Nudt5     | 0 | 0 | -3.615966  |
| LOC108345 | 0 | 0 | -3.238273  |
| Npat      | 0 | 0 | -1.709968  |
| Slc26a2   | 0 | 0 | -6.671792  |
| Il6st     | 0 | 0 | -11.011152 |
| LOC100125 | 0 | 0 | -9.580415  |
| Dimt1     | 0 | 0 | -5.27382   |
| Tbc1d5    | 0 | 0 | -3.647225  |
| Eri3      | 0 | 0 | -3.693004  |
| Tmem131   | 0 | 0 | -1.493601  |
| Ccdc155   | 0 | 0 | -1.048757  |
| Npr1      | 0 | 0 | -10.931493 |
| Rreb1     | 0 | 0 | -6.828724  |
| Ostm1     | 0 | 0 | -1.833956  |
| Tctn1     | 0 | 0 | -1.454151  |
| Ddb1      | 0 | 0 | -6.692178  |
| Slc38a7   | 0 | 0 | -7.454831  |
| Zfp180    | 0 | 0 | -7.575054  |
| Mgat1     | 0 | 0 | -1.85561   |
| Crygs     | 0 | 0 | -3.402064  |
| Impg2     | 0 | 0 | -3.826848  |
| Poc1b     | 0 | 0 | -5.869163  |
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| Fgg       | 0 | 0 | -4.899081  |
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| Ggn       | 0 | 0 | -7.278744  |
| Klhl40    | 0 | 0 | -1.077456  |
| Chst13    | 0 | 0 | -4.92293   |
| Tcp1l1l   | 0 | 0 | -9.728143  |
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| Serpina4  | 0 | 0 | -8.471849  |
| Cirbp     | 0 | 0 | -1.01888   |
| Rars2     | 0 | 0 | -1.819566  |
| Tlr7      | 0 | 0 | -3.471428  |
| Poc1a     | 0 | 0 | -8.164402  |
| Gpr176    | 0 | 0 | -5.312883  |
| Napepld   | 0 | 0 | -7.276362  |
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| LOC103690 | 0 | 0 | -1.137729  |

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| Sirt6     | 0        | 0          | -4.001781  |
| Lmod3     | 0        | 0          | -1.386009  |
| Pds5b     | 0        | 0          | -11.371776 |
| Celf3     | 1.288525 | 1.225304   | -10.452039 |
| Etl4      | 0        | 1.405058   | -9.331261  |
| Tmem229k  | 0        | 1.372088   | -8.932527  |
| Prkab2    | 0        | 1.208811   | -8.976998  |
| Tcf12     | 0        | 1.294958   | -10.11008  |
| Dhx30     | 0        | -1.206617  | -4.703784  |
| Mapt      | 0        | -1.727936  | -9.623003  |
| Vps52     | 0        | -1.6624    | -9.498386  |
| Rnf38     | -1.5562  | -1.663715  | -8.905672  |
| Dnajc14   | -1.13808 | 0          | -8.477869  |
| Tma16     | -1.43355 | 0          | -7.787484  |
| Layn      | -1.23929 | 0          | -7.634021  |
| Rnf14     | -2.23672 | 0          | -13.132575 |
| Aak1      | -3.4334  | 0          | -11.964436 |
| lpmk      | -2.93285 | 0          | -7.029257  |
| Ssbp2     | -4.03878 | 0          | -8.496614  |
| LOC102556 | -2.38804 | -4.151106  | -7.693445  |
| Fam189b   | -1.2556  | -1.058462  | -2.638395  |
| Zfp532    | -7.18681 | -5.263798  | -10.716333 |
| Cd22      | 9.77879  | -7.198386  | 0          |
| Arhgap1   | 9.464028 | -9.377388  | 0          |
| Ccna1     | 9.415331 | -8.364178  | 0          |
| Enah      | 10.66342 | -8.800194  | 0          |
| Efemp2    | 6.577995 | -5.496522  | 0          |
| Tp53i3    | 6.366997 | -9.91866   | 0          |
| Scap      | 13.18251 | -8.859135  | -13.079837 |
| Tnrc6b    | 12.13083 | -8.634618  | -12.029016 |
| Crot      | 10.6915  | -8.21921   | -9.476035  |
| Epb41l4a  | 8.236817 | -8.276297  | -5.321948  |
| Rfx3      | 12.32413 | -12.705463 | -12.223065 |
| RGD13060  | 7.498735 | -7.871569  | -7.732261  |
| Zfp317    | 8.878175 | -8.803478  | -8.507868  |
| Zfp82     | 8.377101 | -8.10971   | -8.274635  |
| Acsl4     | 1.371734 | -1.521895  | -1.253931  |
| Ctdnep1   | 8.648582 | -11.757763 | -12.129473 |
| Itpr1     | 6.597279 | -10.456006 | -9.586231  |
| lpp       | 5.182364 | -8.145016  | -6.223169  |
| Brd4      | 1.762436 | -2.747101  | -1.765791  |
| Qrich1    | 4.080849 | -10.826456 | -5.196024  |
| Satb1     | 3.955219 | -10.855537 | -4.498449  |
| Arvcf     | 2.647713 | -9.263844  | -3.941285  |
| Agk       | 1.85212  | -8.395271  | -3.018077  |
| Cacnb3    | 0        | -2.216728  | -1.281009  |
| Chrm4     | 0        | -3.780511  | -2.202838  |

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| Adam22    | 0        | -1.686839  | -1.014283  |
| Actr8     | 0        | -3.218862  | -1.911123  |
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| Cops7a    | 0        | -1.567673  | -1.056632  |
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| Pygo2     | 0        | -2.494872  | -1.34155   |
| Paip1     | 0        | -3.772736  | -2.048733  |
| Snrnp48   | 0        | -2.250797  | -1.172985  |
| Akap6     | 0        | -26.492025 | -10.467076 |
| Epb41     | 0        | -10.119831 | -4.074566  |
| Iqce      | 0        | -8.760642  | -3.661683  |
| Ppp6r1    | 0        | -8.79546   | -3.788993  |
| Elf1      | 2.601488 | -10.078204 | -7.452589  |
| Prr7      | 1.008109 | -4.65726   | -3.380569  |
| Akt2      | 0        | -6.740682  | -5.765291  |
| Farp1     | 0        | -3.09444   | -2.626079  |
| Fam109a   | 0        | -1.831035  | -1.577727  |
| Mapk4     | 0        | -10.639781 | -9.16997   |
| Sytl5     | 0        | -4.853177  | -4.186103  |
| Chrm3     | 0        | -9.874735  | -8.290093  |
| Cul3      | 0        | -11.603194 | -9.784019  |
| Slc27a1   | 0        | -8.939126  | -7.551139  |
| Lzts2     | 0        | -3.347485  | -2.787191  |
| Chtop     | 0        | -4.217343  | -3.497688  |
| Stk38     | 0        | -10.80697  | -8.958336  |
| Cemip     | 0        | -3.110573  | -2.517463  |
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| Chd7      | 0        | -3.362352  | -2.739424  |
| Ddx59     | 0        | -9.368513  | -7.658334  |
| Lrrc8c    | 0        | -2.301237  | -1.885092  |
| Tor1aip1  | 0        | -2.877288  | -2.360198  |
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| LOC102548 | 0        | -10.027229 | -9.231714  |
| Mafg      | 0        | -2.564754  | -2.361421  |
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| Npepo     | 0        | -8.834683  | -8.217291  |
| Slc9b2    | 0        | -9.795797  | -9.12793   |
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| LOC102555 | 0        | -7.906586  | -6.940226  |
| Aldoa     | 0        | -3.566908  | -3.135596  |
| Rtel1     | 0        | -6.905822  | -6.070801  |
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| Mlf1      | 0        | -7.371847  | -6.47582   |
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| Mrpl36    | 0        | -8.331485  | -7.393284  |
| Gabrb2    | 0        | -2.458316  | -2.173032  |
| Zfand4    | 0        | -8.529615  | -7.517002  |
| Cap1      | 0        | -1.457837  | -1.310985  |
| Prrg3     | 0        | -9.134878  | -8.241883  |
| Psd4      | 0        | -8.741843  | -7.923701  |
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| Cbl1      | 0        | -1.32007   | -1.181582  |
| Tspan11   | 0        | -4.606914  | -4.124704  |
| LOC100910 | 0        | -8.803035  | -7.860411  |
| Rapgef3   | 0        | -2.463395  | -2.197049  |
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| Ccar2     | 0        | -5.290796  | -4.00721   |
| Rnf220    | 0        | -2.15286   | -1.636709  |
| Akap17b   | 0        | -4.939806  | -3.648185  |
| Gosr1     | 0        | -2.633602  | -1.937421  |
| Dnajc19   | 0        | -1.887595  | -1.383075  |
| Slc25a38  | 0        | -3.281721  | -2.406857  |
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| Usp32     | 0        | -2.124508  | -1.583374  |
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| Szt2      | 0        | -5.431352  | -3.930877  |
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| Dtx3      | 0        | -1.833884  | -2.008145  |
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| Bcl2l12   | 0        | -7.471303  | -8.001002  |
| Ube2j1    | 0        | -4.806452  | -5.145842  |
| Mark1     | 0        | -1.320184  | -1.418945  |
| Pqlc2     | 0        | -6.590463  | -7.080868  |
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| Foxn3     | 0        | -8.303979  | -9.853316  |
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| Gjb2      | 0        | -3.848751  | -4.479578  |
| Wdr74     | 0        | -6.715868  | -7.83357   |
| Jakmip3   | 0        | -1.921415  | -2.227921  |
| LOC100911 | 0        | -1.366961  | -1.585222  |
| Siah1     | 0        | -3.603623  | -4.183061  |
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| Piga      | 1.255021 | -8.934569  | -8.425824  |
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| Rabep1    | 0        | -12.160685 | -11.689398 |
| Spn       | 0        | -8.671635  | -8.346237  |
| Tnrc6c    | 0        | -12.408696 | -11.939647 |
| Fcgrt     | 0        | -8.16374   | -8.000672  |
| Arhgef28  | 0        | -5.686952  | -5.559893  |

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| Grik5     | 0 | -9.190891  | -8.981797  |
| Mcm9      | 0 | -10.923588 | -10.67173  |
| Hmga1     | 0 | -1.078947  | -1.050672  |
| Kras      | 0 | -5.251637  | -5.199306  |
| Nrm       | 0 | -1.570349  | -1.54346   |
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| Zfp287    | 0 | -2.805001  | -2.766146  |
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| Hps4      | 0 | -4.198122  | -4.282069  |
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| Rab23     | 0 | -8.756292  | -8.918127  |
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| Thap6     | 0 | -9.067511  | -9.281134  |
| Upf3b     | 0 | -8.229898  | -8.423614  |
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| Ly6e      | 0 | -1.940514  | -2.026237  |
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| Zfp202    | 0 | -9.799458  | -10.281577 |
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| Galnt7    | 0 | -2.549073  | -3.882688  |
| Pdxdc1    | 0 | -3.57057   | -5.529746  |
| Acap3     | 0 | -1.767404  | -2.47707   |
| Mettl15   | 0 | -5.212688  | -7.184371  |
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| Capn15    | 0 | -9.03354   | -11.357372 |

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| Dnaja3    | 0        | -1.099931  | -1.383688  |
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| Limch1    | 2.16955  | -10.289856 | -1.708993  |
| Rap1gap2  | 1.795764 | -9.932202  | -1.67021   |
| Rbm26     | 1.900099 | -8.460671  | -1.178522  |
| Mad2l1    | 1.300915 | -5.554632  | 0          |
| Ttyh3     | 1.221438 | -4.906749  | 0          |
| Prmt3     | 1.138061 | -10.58188  | -1.075572  |
| Fn1       | 1.05073  | -9.718625  | 0          |
| Taf6l     | 1.045029 | -9.805895  | 0          |
| Cdk11b    | 0        | -9.426698  | -1.184032  |
| Rapgef2   | 0        | -9.314258  | -1.199649  |
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| Brinp3    | 0        | -5.450073  | 0          |
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| Ak2       | 0        | -1.630958  | 0          |
| Plxnb3    | 0        | -5.599888  | 0          |
| Wdr25     | 0        | -9.196783  | 0          |
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| Cd84      | 0        | -4.920069  | 0          |
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| Mzf1      | 0 | -2.438091  | 0 |
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| Fam135a   | 0 | -8.039192  | 0 |
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| Cdkl5     | 0 | -1.055876  | 0 |
| Anxa3     | 0 | -3.535522  | 0 |
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| Ranbp3    | -1.31947 | -1.781559  | 0         |
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| Smc4     | -10.5012 | 0         | 0         |
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| Rnps1     | -1.65176 | 1.814686  | 0          |
| Rps24     | -1.73475 | 2.013339  | 0          |
| Tfdp2     | -2.12541 | 2.149218  | 0          |
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| Zfp217    | -8.2859  | 8.140073  | 0          |
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| Slc25a42  | -1.80868 | 1.041105  | 0          |
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| Me3       | -4.1493  | 1.817743  | 0          |
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| Cdk5rap2  | -4.63929 | 1.538655  | -6.612413  |
| Zfp637    | -2.02267 | 0         | -1.125112  |
| Plk5      | -4.61663 | 0         | -3.083708  |
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| Idh3g     | -1.31394 | 0         | -1.194281  |
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| Rrp36     | -1.67723 | 0 | 1.281712  |
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| Mbd1      | -1.21737 | 0 | 1.385942  |
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| Dtwd2     | -2.6783  | 0 | 2.823985  |
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| Zfp458    | -9.30034 | 0 | 9.441592  |
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| Limk1     | -10.8038 | 0 | 11.130194 |

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| Plekhb1   | -10.9186 | 0        | 11.325298 |
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| Pnoc      | -2.20447 | 0        | 2.183708  |
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| Tmod4     | -7.99735 | 3.285062 | 8.523302  |
| Rufy3     | -10.4887 | 3.569824 | 9.816963  |

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| Btbd10    | -1.86281 | 1.891483   | 1.471225  |
| Tmem196   | -6.02766 | 5.520958   | 4.373573  |
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| Kif3b     | -13.2348 | 12.66102   | 12.663096 |
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| Arhgef6   | -8.25682 | 10.563887  | 7.262756  |
| Pan2      | -8.28957 | 8.828269   | 11.15626  |
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| Hs6st2    | -10.8388 | 7.095427   | 10.387958 |
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| Btbd19    | -7.69232 | -8.20236   | 8.995484  |
| Tle2      | -9.0555  | -8.947833  | 9.891195  |
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| Hdac9     | -3.05199 | -1.454845  | 3.676666  |
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| Dmd       | -9.26925 | -1.813852  | 7.454762  |
| Syt16     | -11.9167 | -3.81632   | 11.967093 |
| Eif5a2    | -4.75216 | -2.831426  | 1.919491  |
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| Tcea2  | -7.73164 | -8.176375 | 5.465325 |
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