Suppl Table S1A: Genelist showing the differentially expressed genes (551) between the Gh and Sh groups, in the context of all the genes examined.

| symbol | logFC   | logCPM  | F      | PValue   | FDR     |
|--------|---------|---------|--------|----------|---------|
| Prl    | 11.4991035 | 1.48097504 | 51.5421186 | 1.1E-06  | 0.00751701 |
| Nrnb2  | -1.0194136 | 4.25797767 | 45.3361516 | 1.53E-06 | 0.00751701 |
| Zfp873 | -1.1228899 | 3.36059903 | 39.803665  | 3.78E-06 | 0.01232947 |
| Gm561  | -1.1390874 | 3.43496853 | 36.7015852 | 6.50E-06 | 0.01591918 |
| Cox5b  | -0.9156881 | 6.31383581 | 33.3118226 | 1.22E-05 | 0.01806353 |
| Lrnm7  | -0.8740268 | 4.50608836 | 32.4871381 | 1.43E-05 | 0.01806353 |
| 6330403K071 | -0.6668451 | 7.67922203 | 32.0586375 | 1.56E-05 | 0.01806353 |
| Pik3c2b| 0.8982442 | 5.11271293 | 31.9132733 | 1.60E-05 | 0.01806353 |
| Gng3   | -0.7274574 | 8.0666176  | 31.0362622 | 1.91E-05 | 0.01806353 |
| Dnmlrb2| -2.8431383 | 0.69709176 | 30.2975397 | 2.22E-05 | 0.01806353 |
| Snx2   | -0.6503272 | 7.57439358 | 30.1137577 | 2.30E-05 | 0.01806353 |
| 1110059E241 | -0.6868977 | 5.63787582 | 30.0113444 | 2.35E-05 | 0.01806353 |
| Gm14295| -0.6042266 | 5.87168836 | 29.7995382 | 2.45E-05 | 0.01806353 |
| Stmn1  | -0.7219354 | 8.45410907 | 29.4248207 | 2.65E-05 | 0.01806353 |
| Hap4   | -0.5382664 | 7.39970962 | 29.1737668 | 2.79E-05 | 0.01806353 |
| Grin1os| 3.00906483 | 0.24889645 | 28.7373841 | 3.06E-05 | 0.01806353 |
| Rasl10a| 1.04020359 | 3.35772303 | 28.625639 | 3.13E-05 | 0.01806353 |
| Nrgn   | -0.6920253 | 7.23116509 | 28.3362626 | 3.33E-05 | 0.01813912 |
| Thap11 | -0.8072082 | 4.58550204 | 27.4801731 | 4.01E-05 | 0.01990873 |
| Snca   | -0.6074742 | 7.68402649 | 27.3417334 | 4.13E-05 | 0.01990873 |
| Mtpap7d3| -2.2519701 | 1.90900847 | 27.0330471 | 4.42E-05 | 0.01990873 |
| Fam160b2| 0.72433363 | 6.58432787 | 26.9752111 | 4.47E-05 | 0.01990873 |
| Milt11 | -0.5580847 | 7.83720873 | 26.2961299 | 5.19E-05 | 0.02212352 |
| BC048546| -0.8582245 | 5.10503088 | 25.7827513 | 5.83E-05 | 0.02302511 |
| Coa3   | -0.8318225 | 4.39961295 | 25.7453302 | 5.88E-05 | 0.02302511 |
| Oxt    | -3.3594105 | 0.36731434 | 25.0257876 | 6.92E-05 | 0.02442513 |
| Nrn1   | -0.6507042 | 7.30682903 | 24.9991369 | 6.96E-05 | 0.02442513 |
| Pitpmn2os1| 4.55249192 | -0.1977303 | 24.8702785 | 7.17E-05 | 0.02442513 |
| 0610009L18f| -1.9546802 | 0.8437656 | 24.7192075 | 7.43E-05 | 0.02442513 |
| Skap2  | -0.9389037 | 4.03246123 | 24.6521026 | 7.54E-05 | 0.02442513 |
| 1700028P141| -2.2981771 | 0.53112999 | 24.5456314 | 7.73E-05 | 0.02442513 |
| Med23  | 0.7830807 | 4.19307272 | 24.3226735 | 8.14E-05 | 0.02473279 |
| Mrp33  | -0.5963263 | 6.89655353 | 24.2218665 | 8.33E-05 | 0.02473279 |
| Pin4   | -0.8256939 | 4.63656401 | 24.049778 | 8.68E-05 | 0.02473279 |
| Plnd1  | 0.82973425 | 4.68512081 | 23.9719025 | 8.84E-05 | 0.02473279 |
| Cytip  | -1.6099717 | 2.74174815 | 23.7675808 | 9.27E-05 | 0.02488713 |
| Tmnt2  | -1.2156031 | 4.613484 | 23.709517 | 9.40E-05 | 0.02488713 |
| Stx1a  | -0.8412501 | 5.57076194 | 23.3239782 | 0.00010303 | 0.02598569 |
| Ppp2r2coss | 3.09993696 | 0.74501721 | 23.2700794 | 0.00010436 | 0.02598569 |
| Orc1   | 1.99372294 | 1.46819534 | 23.2005465 | 0.00010611 | 0.02598569 |
| Adam10 | 0.67115214 | 5.75542415 | 22.6445256 | 0.00012134 | 0.02715085 |
| Sh3bgr | -7.0963152 | -0.4642722 | 22.4644497 | 0.00012677 | 0.02715085 |
| Gene     | Log2FoldChange | FDR   | Adj.P  | log2FoldChange | FDR   | Adj.P  |
|----------|----------------|-------|--------|----------------|-------|--------|
| Aspg     | 2.28588425     | 0.00012867 | 0.02715085 |
| Efhd2    | -0.6414041     | 0.00012979 | 0.02715085 |
| Ptchd4   | 0.97218183     | 0.00013149 | 0.02715085 |
| AA413626 | 6.64232586     | 0.0001318  | 0.02715085 |
| 4931430N09 | 3.14413134   | 0.00013781 | 0.02715085 |
| Ms1      | 0.61983594     | 0.00013947 | 0.02715085 |
| Sema4g   | 0.94033615     | 0.00014034 | 0.02715085 |
| Bzw2     | 0.90802642     | 0.00014145 | 0.02715085 |
| Erbb4    | 0.94033615     | 0.00014034 | 0.02715085 |
| Medag    | -0.5438921     | 0.0001485  | 0.02715085 |
| Ndufa6   | -0.7197462     | 0.00015195 | 0.02715085 |
| Med24    | 0.73745712     | 0.00015205 | 0.02715085 |
| Bmyc     | -0.8028229     | 0.00015257 | 0.02715085 |
| Gm5464   | 2.9418034      | 0.00015522 | 0.02715085 |
| Pnldc1   | 4.14453944     | 0.00016098 | 0.02766425 |
| Phex     | 1.94225174     | 0.00016898 | 0.02853745 |
| Bloc1s3  | -1.0694409     | 0.0001772  | 0.02934483 |
| SIC35B1  | -0.8829638     | 0.00017975 | 0.02934483 |
| Gpr155   | 0.81975592     | 0.00018837 | 0.03000085 |
| Nfrkb    | 0.79285686     | 0.00018989 | 0.03000085 |
| Cycs     | -0.6836191     | 0.00020623 | 0.03159973 |
| Adamts3  | 0.99609591     | 0.00020646 | 0.03159973 |
| Katnbl1  | 0.95078167     | 0.00021113 | 0.03181731 |
| Camk2n1  | -0.5217018     | 0.00021665 | 0.03199712 |
| Sfi1     | 1.4113135      | 0.00021886 | 0.03199712 |
| Gosr2    | -0.5239677     | 0.00022315 | 0.03214433 |
| Pkd2l1   | 6.5080441      | 0.00022659 | 0.03159973 |
| Gabrq    | 1.5203003      | 0.00023995 | 0.03357639 |
| Rilpl2   | -1.2451924     | 0.00025891 | 0.03381995 |
| Tnrc18   | 0.57848884     | 0.00025988 | 0.03381995 |
| Vwa5b2   | 1.30111258     | 0.00026480 | 0.03381995 |
| Col11a1  | 1.0889747      | 0.00026741 | 0.03381995 |
| Emd      | -0.6418869     | 0.00027199 | 0.03381995 |
| Pcp4     | -0.5701545     | 0.00027386 | 0.03381995 |
| Gjd2     | 1.50978522     | 0.00027705 | 0.03381995 |
| Strn     | 0.47054738     | 0.00029163 | 0.03381995 |
| Me3      | 1.06181957     | 0.00029328 | 0.03381995 |
| Erh      | -0.8591701     | 0.00029406 | 0.03381995 |
| Gldc     | 1.16158155     | 0.00029856 | 0.03381995 |
| Bora     | 1.86274343     | 0.00029864 | 0.03381995 |
| Mapre3   | -0.5635647     | 0.00029926 | 0.03381995 |
| 2011015L04f | 1.03398217  | 0.00029936 | 0.03381995 |
| Gm20748  | -1.8853942     | 0.00030031 | 0.03381995 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  |
|-------|---------|---------|---------|---------|---------|
| Ryr1  | 1.53349134 | 2.63715206 | 19.0630367 | 0.00030173 | 0.03381995 |
| Gm16039 | -0.6305285 | 4.51962695 | 19.0556036 | 0.00030233 | 0.03381995 |
| AB041803 | 1.92565748 | 2.42440817 | 19.0369947 | 0.00030383 | 0.03381995 |
| Zy9m3 | 0.75803641 | 6.02195042 | 18.8964492 | 0.00031547 | 0.03417929 |
| Ralyl | -0.5145798 | 7.08495102 | 18.8688826 | 0.00031628 | 0.03417929 |
| TagIn3 | -0.6819764 | 6.38412678 | 18.853084 | 0.00031916 | 0.03417929 |
| Filip1l | -0.5592096 | 5.30520595 | 18.8314684 | 0.00032102 | 0.03417929 |
| Abca5 | 0.85666423 | 5.65973686 | 18.7458056 | 0.0003285 | 0.03427559 |
| Rinl | -1.8728137 | 1.37320554 | 18.6770507 | 0.00033464 | 0.03427559 |
| Dtl | -0.8103598 | 4.00306842 | 18.6572871 | 0.00033643 | 0.03427559 |
| E330023G01 | 1.77671546 | 1.42806035 | 18.6380632 | 0.00033818 | 0.03427559 |
| Pkd1 | 0.85771752 | 5.17481873 | 18.613914 | 0.00034039 | 0.03427559 |
| Mrpl12 | -1.0375173 | 3.85456759 | 18.5694942 | 0.0003445 | 0.03427559 |
| Syndig1l | 1.3187646 | 2.34801023 | 18.4881279 | 0.00035217 | 0.03427559 |
| Vti1b | -0.6307287 | 5.76983741 | 18.4396658 | 0.00035683 | 0.03427559 |
| Nxf7 | -3.831241 | 0.83819956 | 18.4006355 | 0.00036064 | 0.03427559 |
| Atf4 | -0.5227742 | 6.67721885 | 18.3784636 | 0.00036282 | 0.03427559 |
| Zfp746 | -0.6745884 | 4.31556848 | 18.3775579 | 0.00036291 | 0.03427559 |
| Ctn3 | 0.78362804 | 5.52149284 | 18.3442135 | 0.00036621 | 0.03427559 |
| 4933413L06f | 2.71390537 | -0.1724786 | 18.3321992 | 0.00036741 | 0.03427559 |
| C430049B03 | -2.0448996 | 1.132541 | 18.1194906 | 0.00038939 | 0.0352489 |
| Slc4a4 | 0.54285964 | 7.86424389 | 18.1147958 | 0.00038989 | 0.0352489 |
| Ets1 | -0.7369663 | 4.0399327 | 18.0746472 | 0.0003942 | 0.0352489 |
| Calm2 | -0.4451872 | 12.25381 | 18.0461512 | 0.0003973 | 0.0352489 |
| Mdm1 | 1.09141927 | 3.14417576 | 18.0236582 | 0.00039976 | 0.0352489 |
| Leng8 | 1.07045333 | 6.48428617 | 18.0097797 | 0.00040129 | 0.0352489 |
| Pln4 | 2.27461822 | 0.99542139 | 17.993961 | 0.00040304 | 0.0352489 |
| Cotl1 | -0.9535241 | 3.14023198 | 17.9401406 | 0.00040905 | 0.03537676 |
| Ccdc43 | -0.7071684 | 4.71901413 | 17.9164947 | 0.00041172 | 0.03537676 |
| Serinc2 | 2.15676827 | 0.7617066 | 17.7726832 | 0.0004284 | 0.03560378 |
| Ndufa11 | -0.8037465 | 3.88211188 | 17.6956178 | 0.00043764 | 0.03560378 |
| 6030407O03 | 5.76014511 | -0.8430597 | 17.6947535 | 0.00043775 | 0.03560378 |
| Gm9199 | 2.99839258 | -0.4350192 | 17.6681458 | 0.00044115 | 0.03560378 |
| Tppp3 | -0.9353462 | 3.54507337 | 17.6275602 | 0.00044599 | 0.03560378 |
| Fam19a3 | -7.5213543 | -0.4615225 | 18.7942972 | 0.00045467 | 0.03560378 |
| Gabrb1 | 0.90320498 | 3.55491588 | 17.5547221 | 0.00045511 | 0.03560378 |
| A1462493 | -1.2803188 | 3.34834797 | 17.5242173 | 0.000459 | 0.03560378 |
| Ms3 | -0.5970872 | 5.48611517 | 17.5233659 | 0.00045911 | 0.03560378 |
| Tnfaip8l3 | -0.5229136 | 6.59912069 | 17.4722524 | 0.0004657 | 0.03560378 |
| Il1rap | 0.8480264 | 3.72863637 | 17.4538685 | 0.00046809 | 0.03560378 |
| 4930572O13 | 4.12683999 | 0.43251936 | 17.4399719 | 0.00046992 | 0.03560378 |
| Cenpk | 2.24009614 | 1.17615186 | 17.4342816 | 0.00047066 | 0.03560378 |
| 4833422C13l | 1.72850666 | 2.31396796 | 17.3899301 | 0.00047654 | 0.03560378 |
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Ptpz1   | 0.74679071 | 6.78132457 | 17.384631 | 0.00047724 | 0.03560378 |
| Trnsalap | -0.7640694 | 3.70772699 | 17.3617979 | 0.0004803 | 0.03560378 |
| Atpl1a4 | 3.38176225 | -0.6699236 | 17.355031 | 0.00048115 | 0.03560378 |
| Ano4    | 0.83249707 | 3.81478993 | 17.2981227 | 0.00048895 | 0.03560378 |
| Shcbp1l | 2.88856624 | 0.19433113 | 17.2927651 | 0.00048969 | 0.03560378 |
| Erlec1  | 0.57337181 | 5.82466938 | 17.2912864 | 0.00048989 | 0.03560378 |
| Rspl1   | -1.0837709 | 3.09497021 | 17.2854414 | 0.00049069 | 0.03560378 |
| Rapp2a  | -0.4232941 | 7.59364331 | 17.2202462 | 0.00049976 | 0.0359518 |
| Psmd6   | -0.5745484 | 5.94318755 | 17.1880677 | 0.00050431 | 0.3605736 |
| Slc27a2 | 1.50264219 | 1.809053 | 17.1468153 | 0.0005102 | 0.3617998 |
| F420014N23 | 1.8673073 | 0.69867719 | 17.0589399 | 0.00052301 | 0.3617998 |
| Adcy5   | 0.46424621 | 6.29166831 | 17.0562536 | 0.0005234 | 0.3617998 |
| Khl3    | 1.24508858 | 2.05259147 | 17.0419011 | 0.00052553 | 0.3617998 |
| Stk36l  | 0.52291876 | 5.63816732 | 17.0293465 | 0.0005274 | 0.3617998 |
| Sorcs3  | 1.1238366 | 4.18264428 | 16.9952002 | 0.00053252 | 0.3617998 |
| Fam184b | 1.37126353 | 2.75541386 | 16.9783235 | 0.00053507 | 0.3617998 |
| Usp29   | 0.73619797 | 5.56455857 | 16.9750222 | 0.00053557 | 0.3617998 |
| Abcb6   | 2.24431446 | 1.61675515 | 16.9114228 | 0.00054531 | 0.3658588 |
| Nelfe   | -1.0051515 | 3.95887873 | 16.8422057 | 0.00055614 | 0.3693725 |
| Agrn    | 0.83859542 | 5.00625141 | 16.8199386 | 0.00055968 | 0.3693725 |
| Ndufs14 | -0.4613245 | 6.61749597 | 16.7974435 | 0.00056327 | 0.3693725 |
| 4930579G24 | 1.07703948 | 2.52831405 | 16.7827303 | 0.00056564 | 0.3693725 |
| Slc35d3 | 1.26839367 | 1.68033819 | 16.6907578 | 0.00058067 | 0.3709274 |
| Mpc1    | -0.5192387 | 6.49887657 | 16.6834603 | 0.00058188 | 0.3709274 |
| Higda2a | -0.7187203 | 5.32361296 | 16.6724788 | 0.00058371 | 0.3709274 |
| Fert2   | 0.55259089 | 4.96364727 | 16.6570699 | 0.00058629 | 0.3709274 |
| Tmem136 | 0.9002675 | 3.41993937 | 16.6355244 | 0.00058991 | 0.3709274 |
| Chmp4b  | -0.4775436 | 6.43768416 | 16.6203617 | 0.00059248 | 0.3709274 |
| Ccpg10s | -0.9744363 | 2.81273087 | 16.599418 | 0.00059604 | 0.3709274 |
| Ltbp1   | 1.11234726 | 4.37816882 | 16.5709456 | 0.00060092 | 0.3709274 |
| Swap70  | -0.6330018 | 4.83364218 | 16.5641344 | 0.0006021 | 0.3709274 |
| Pcnx    | 0.64637845 | 7.32151792 | 16.4518907 | 0.00062182 | 0.3806854 |
| Bag5    | -0.5632533 | 6.29016191 | 16.4159437 | 0.00062829 | 0.3822558 |
| Ncapd3 | 0.93055065 | 4.27461115 | 16.3866796 | 0.00063361 | 0.3831129 |
| Muc6    | 2.01394077 | 1.55308457 | 16.3372251 | 0.00064271 | 0.3836742 |
| Rab5a   | -0.5116369 | 5.49876439 | 16.3170242 | 0.00064648 | 0.3836742 |
| Abca1   | 0.62756967 | 5.05854337 | 16.3002651 | 0.00064961 | 0.3836742 |
| Kif26b  | 1.31261506 | 1.966585 | 16.2971057 | 0.00065021 | 0.3836742 |
| Mief1   | -0.7918471 | 4.4905079 | 16.2621825 | 0.00065681 | 0.3848806 |
| Stmn2   | -0.430122 | 7.85579106 | 16.2407959 | 0.00066089 | 0.3848806 |
| Dnaic30 | -0.6643896 | 4.96880301 | 16.1917357 | 0.00067035 | 0.3848806 |
| Cabin1  | 0.60280032 | 5.24959159 | 16.158597 | 0.00067682 | 0.3848806 |
| Hscb    | -1.1720308 | 4.15092299 | 16.1394553 | 0.00068059 | 0.3848806 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 | Value 11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Actn2  | 1.12910131 | 2.19011377 | 16.121629 | 0.00068413 | 0.03848806 |
| Rtl1   | 1.28910401 | 2.9729589 | 16.1132592 | 0.00068579 | 0.03848806 |
| Snx20  | -1.817553 | 0.86909136 | 16.1075442 | 0.00068694 | 0.03848806 |
| 0610030E20 | 0.60599212 | 5.46102833 | 16.1040643 | 0.00068763 | 0.03848806 |
| Bambi  | -1.9592331 | 1.23573943 | 16.084554 | 0.00069154 | 0.03848806 |
| Bcas1  | 0.86828343 | 4.7132492 | 16.0143957 | 0.00070582 | 0.03906062 |
| Cnrip1  | -0.5356985 | 6.07897393 | 15.9624545 | 0.0007166 | 0.03909533 |
| Mospd1  | -0.6862752 | 6.13396769 | 15.9334265 | 0.0007227 | 0.03909533 |
| Dnah7b  | 0.83135259 | 3.50336842 | 15.9179532 | 0.00072598 | 0.03909533 |
| Fbxl13  | 6.78300724 | -0.9624995 | 15.8704683 | 0.00073613 | 0.03909533 |
| Sntb1  | -1.3870853 | 1.79795292 | 15.8552945 | 0.00073941 | 0.03909533 |
| Ccdc47  | 0.47089137 | 7.07371652 | 15.8440789 | 0.00074185 | 0.03909533 |
| Gm16907  | 2.4714276 | 1.60754631 | 15.8091289 | 0.00074949 | 0.03909533 |
| Rab36  | 0.64881374 | 3.97702559 | 15.8030814 | 0.00075082 | 0.03909533 |
| Ndufa12  | -0.6106283 | 5.67767073 | 15.7819201 | 0.0007555 | 0.03909533 |
| Rheb  | -0.5791723 | 7.10790637 | 15.7304507 | 0.00076701 | 0.03909533 |
| 4833420G17  | 0.66559179 | 4.88925606 | 15.7178521 | 0.00076986 | 0.03909533 |
| Kcnk10  | 1.72808138 | 0.71105858 | 15.7032821 | 0.00077317 | 0.03909533 |
| Ppp2ca  | -0.4035231 | 8.45582872 | 15.7016373 | 0.00077354 | 0.03909533 |
| Snrnp25  | -1.3958241 | 2.33329262 | 15.6814718 | 0.00077815 | 0.03909533 |
| Srsf1  | 0.45429025 | 7.49633913 | 15.6637286 | 0.00078223 | 0.03909533 |
| Dgke  | 0.72440948 | 5.5125218 | 15.6626858 | 0.00078247 | 0.03909533 |
| Batf2  | -4.6049632 | -0.9426477 | 15.6385599 | 0.00078806 | 0.03909533 |
| Lrtrm4  | 0.68360317 | 5.30938419 | 15.6177872 | 0.0007929 | 0.03909533 |
| Nwd1  | 0.75285848 | 5.14178275 | 15.615244 | 0.0007935 | 0.03909533 |
| Chaf1b  | -6.5349142 | -1.7793604 | 16.6103858 | 0.00079493 | 0.03909533 |
| Zar1l  | -2.3418623 | 0.48899529 | 15.5973273 | 0.00079771 | 0.03909533 |
| Ras11b  | -0.619737 | 5.61450664 | 15.5587708 | 0.00080685 | 0.03909533 |
| Ftx  | 1.03532359 | 4.04392197 | 15.5554438 | 0.00080764 | 0.03909533 |
| Poll  | -1.7118682 | 0.87699302 | 15.5365169 | 0.00081218 | 0.03909533 |
| Smpd4  | 0.72148771 | 5.12357101 | 15.5252196 | 0.0008149 | 0.03909533 |
| Vill  | 1.64206103 | 1.24115167 | 15.51173 | 0.00081816 | 0.03909533 |
| Tial1  | 0.54537151 | 5.9119415 | 15.4954709 | 0.00082211 | 0.03909533 |
| Gpa1a  | 1.62885164 | 1.39963622 | 15.4617832 | 0.00083036 | 0.03909533 |
| Arhgap39  | 0.65910113 | 4.98563479 | 15.4598384 | 0.00083084 | 0.03909533 |
| Fbxo45  | -0.492857 | 6.25555646 | 15.4542252 | 0.00083222 | 0.03909533 |
| Lrp1b  | 1.07370073 | 5.97905963 | 15.4192068 | 0.00084092 | 0.03909533 |
| Fam199x  | 0.65210945 | 4.77268233 | 15.4172619 | 0.0008414 | 0.03909533 |
| Exosc1  | -0.7849826 | 4.68225896 | 15.4128843 | 0.0008425 | 0.03909533 |
| Dynll2  | -0.4950608 | 7.03477523 | 15.3747704 | 0.00085209 | 0.03909533 |
| Banf1  | -0.8409777 | 4.45274061 | 15.3633021 | 0.00085501 | 0.03909533 |
| Tceal6  | -0.5460871 | 4.72825426 | 15.3356016 | 0.00086208 | 0.03909533 |
| Pomp  | -0.6424718 | 7.36047553 | 15.3179867 | 0.00086662 | 0.03909533 |
| Gene   | Expression 1 | Expression 2 | Expression 3 | Expression 4 | Expression 5 |
|--------|-------------|-------------|-------------|-------------|-------------|
| Meg3   | 1.0944981   | 10.8517456  | 15.2906061  | 0.00087372  | 0.03909533  |
| Tmem67 | 1.0098932   | 3.81149428  | 15.2835983  | 0.00087555  | 0.03909533  |
| Zmat2  | -0.5001579  | 7.1416039   | 15.2450217  | 0.00088569  | 0.03909533  |
| Myo9b  | 0.7065602   | 4.49957266  | 15.2438466  | 0.000886    | 0.03909533  |
| Al467606| -6.1941442  | -1.3976377  | 15.2399481  | 0.00088703  | 0.03909533  |
| 2610301B20| -0.5585595  | 5.3130088   | 15.2289687  | 0.00088994  | 0.03909533  |
| Zmat2  | -0.5001579  | 7.1416039   | 15.2450217  | 0.00088569  | 0.03909533  |
| Myo9b  | 0.7065602   | 4.49957266  | 15.2438466  | 0.000886    | 0.03909533  |
| Al467606| -6.1941442  | -1.3976377  | 15.2399481  | 0.00088703  | 0.03909533  |
| 2610301B20| -0.5585595  | 5.3130088   | 15.2289687  | 0.00088994  | 0.03909533  |
| Zmat2  | -0.5001579  | 7.1416039   | 15.2450217  | 0.00088569  | 0.03909533  |
| Myo9b  | 0.7065602   | 4.49957266  | 15.2438466  | 0.000886    | 0.03909533  |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  |
|-------|---------|---------|---------|---------|---------|
| Srfbp1| -0.7641188 | 3.92073567 | 14.6673198 | 0.00105413 | 0.03955078 |
| Rfc2  | -0.9827999 | 3.34450161 | 14.6611098 | 0.00105612 | 0.03955078 |
| Cyb5  | -0.7243092 | 5.88858328 | 14.6586209 | 0.00105692 | 0.03955078 |
| Hspa13 | 0.67557069 | 4.88156484 | 14.6320053 | 0.00106552 | 0.03955078 |
| Med31  | -0.8624766 | 3.37068714 | 14.6136091 | 0.00107151 | 0.03955078 |
| Cln8  | 0.70999696 | 3.78794767 | 14.6046261 | 0.00107444 | 0.03955078 |
| Cplx1  | -0.4165176 | 8.44920453 | 14.5557823 | 0.00109057 | 0.03955078 |
| Taf10  | -0.7801265 | 4.15935946 | 14.555238 | 0.00109075 | 0.03955078 |
| Arl6  | -0.5808428 | 5.70105526 | 14.5507453 | 0.00109225 | 0.03955078 |
| Dpm1  | 0.69125235 | 5.2982306 | 14.5452585 | 0.00109408 | 0.03955078 |
| Lhpp  | -1.0459535 | 2.63005756 | 14.5150339 | 0.00110423 | 0.03955078 |
| Ptpkrk | 0.48989595 | 6.4903299 | 14.5118161 | 0.00110532 | 0.03955078 |
| Ensa  | -0.5062274 | 8.89617653 | 14.5117434 | 0.00110543 | 0.03955078 |
| Dynlt3 | -0.57858 | 9.11236474 | 14.5033438 | 0.00110819 | 0.03955078 |
| Haus2  | -0.5333011 | 5.4932092 | 14.5013601 | 0.00110886 | 0.03955078 |
| Itf22  | -0.8012777 | 4.09852226 | 14.4940148 | 0.00111135 | 0.03955078 |
| H19   | -4.9801657 | -1.5509996 | 14.4930177 | 0.00111169 | 0.03955078 |
| Ndufa8 | -0.5708611 | 5.2594952 | 14.4896539 | 0.00111284 | 0.03955078 |
| Anapc1 | 0.49908678 | 6.17805781 | 14.4748482 | 0.00111789 | 0.03955078 |
| Lmo7  | 0.98084146 | 6.02077423 | 14.4695919 | 0.00111969 | 0.03955078 |
| Svep1  | 1.10722134 | 2.75200356 | 14.459475 | 0.00112316 | 0.03955078 |
| Gltpd1 | -0.6930513 | 3.73848941 | 14.4448132 | 0.00112822 | 0.03955078 |
| Pttg1  | -0.542517 | 4.90101036 | 14.4380426 | 0.00113056 | 0.03955078 |
| Sumf2 | 1.00201367 | 2.65517025 | 14.4168026 | 0.00113795 | 0.03957098 |
| Fam178a | 0.42435589 | 7.06139048 | 14.4131606 | 0.00113922 | 0.03957098 |
| Slc44a3 | 5.76604728 | -1.1805436 | 14.3767415 | 0.00115202 | 0.03987431 |
| Plcg1 | 0.65405277 | 4.07223723 | 14.3567652 | 0.00115911 | 0.03997846 |
| Gnb4  | 0.61938857 | 4.79186828 | 14.3440583 | 0.00116365 | 0.03999021 |
| Glta8d1 | 0.72796097 | 4.23810645 | 14.3329792 | 0.00116762 | 0.03999021 |
| AU022252 | -1.041266 | 2.42007903 | 14.3058942 | 0.00117739 | 0.0401843 |
| D130043K22 | 1.03304188 | 3.37003417 | 14.2836191 | 0.00118549 | 0.04018977 |
| Srsf12 | -0.8462553 | 4.02511157 | 14.2803081 | 0.0011867 | 0.04018977 |
| Dyrk4  | -7.3124806 | -2.242214 | 15.1190982 | 0.00119155 | 0.04018977 |
| Nkd2  | -0.9793361 | 4.51143517 | 14.2450965 | 0.00119965 | 0.04018977 |
| Atg5  | -0.5848014 | 4.61398251 | 14.242091 | 0.00120076 | 0.04018977 |
| L1td1 | -1.0772528 | 2.81831236 | 14.2307998 | 0.00120495 | 0.04018977 |
| Fbf1  | 0.69750123 | 4.05102096 | 14.2238228 | 0.00120755 | 0.04018977 |
| Slt3a11 | 3.91399859 | 0.50446034 | 14.2149776 | 0.00121103 | 0.04018977 |
| Mbp   | 0.77403598 | 7.0503577 | 14.1969368 | 0.00121761 | 0.04018977 |
| B430319G15 | 1.4018896 | 1.96980397 | 14.1943721 | 0.00121858 | 0.04018977 |
| Polrmt | 1.12837132 | 2.23954961 | 14.1717001 | 0.00122714 | 0.04033651 |
| Chcd6 | -0.8552462 | 3.43106669 | 14.152953 | 0.00123453 | 0.04038384 |
| Znhit1 | 0.9053478 | 3.24479417 | 14.1212441 | 0.00124645 | 0.04038384 |
| Gene      | P Value | Log2 Fold Change |
|-----------|---------|-----------------|
| Pou4f1    | 0.00125199 | 0.04038384 |
| Acn9      | 0.00125772 | 0.04038384 |
| Ep400     | 0.00126011 | 0.04038384 |
| F2rl2     | 0.00126073 | 0.04038384 |
| Ntrk3     | 0.00126133 | 0.04038384 |
| Ppp2r3c   | 0.00126157 | 0.04038384 |
| Syndig1   | 0.00127401 | 0.04064949 |
| Abcg1     | 0.00128848 | 0.04097759 |
| Rapgr     | 0.00130521 | 0.04115339 |
| Ccdc27    | 0.00130583 | 0.04115339 |
| Gm16675   | 0.00130794 | 0.04115339 |
| Sema5a    | 0.00131559 | 0.04115339 |
| Eif3k     | 0.00131837 | 0.04115339 |
| Ncad      | 0.00132233 | 0.04115339 |
| Ranbp1    | 0.00133115 | 0.04115339 |
| Cstb      | 0.00133636 | 0.04115339 |
| Gpr101    | 0.00133989 | 0.04115339 |
| Slc2a4rg-ps | 0.00134389 | 0.04115339 |
| Tmem26    | 0.00134405 | 0.04115339 |
| Trrap     | 0.00134442 | 0.04115339 |
| Ccer1     | 0.00136191 | 0.04155866 |
| Gm16853   | 0.00137085 | 0.04170162 |
| Larmor5   | 0.00137924 | 0.04182692 |
| Pdap1     | 0.00138857 | 0.04197992 |
| Drd1a     | 0.00139593 | 0.04207252 |
| Ube2b     | 0.00140188 | 0.04212247 |
| Tia1      | 0.00142615 | 0.04222744 |
| Tyk2      | 0.00142924 | 0.04222744 |
| Gm16523   | 0.00142924 | 0.04222744 |
| Cox5a     | 0.00142941 | 0.04222744 |
| Pak1      | 0.00143222 | 0.04222744 |
| Rrm2      | 0.00143668 | 0.04222744 |
| Mzt1      | 0.00144166 | 0.04222744 |
| Rgs9      | 0.00144895 | 0.04222744 |
| Gabarapl1 | 0.00145407 | 0.04222744 |
| Cisd1     | 0.00145454 | 0.04222744 |
| Rp9       | 0.00145668 | 0.04222744 |
| Timm8b    | 0.00145711 | 0.04222744 |
| Arnt2     | 0.00146348 | 0.04222705 |
| Csrp2     | 0.00146987 | 0.04234654 |
| Slc46a1   | 0.00147519 | 0.04240547 |
| 1700021F05I | 0.00148875 | 0.04240547 |
| Gene  | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   | Value 10  |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Disp2 | 0.62079746| 7.01997622| 13.5405197| 0.00149461| 0.04240547|
| Ywhah | -0.3710885| 10.4947765| 13.5340512| 0.00149766| 0.04240547|
| Dnah1 | 0.96326552| 3.06537276| 13.5335792| 0.00149789| 0.04240547|
| Ypel3 | -0.4533969| 5.84479946| 13.5224327| 0.00150317| 0.04243238|
| Tmem251| -0.7666044| 3.7918645| 13.5007634| 0.0015135| 0.0425291 |
| Cend1 | -0.4455647| 7.05317087| 13.4858285| 0.00152066| 0.0425291 |
| Gm19689| -7.782068 | -1.7117989| 14.2482286| 0.00152396| 0.0425291 |
| Ly6e  | -0.4931786| 6.82283664| 13.4770947| 0.00152487| 0.0425291 |
| Trmt112| -0.5770377| 5.06178834| 13.4688523| 0.00152885| 0.0425291 |
| Tbrg3 | 1.02142494| 4.19389579| 13.4610204| 0.00153265| 0.0425291 |
| Lrba  | 0.6423214| 5.84648866| 13.4303998| 0.00154758| 0.04282224|
| Zyx   | -0.5198260| 5.44226379| 13.395264  | 0.00156492| 0.04317999|
| Acbd3 | -0.4309431| 6.49257134| 13.3760419| 0.00157449| 0.04332218|
| Adra1a| 0.68935762| 4.48599076| 13.3607172| 0.00158217| 0.04341157|
| Ddn   | 0.49784501| 6.89353307| 13.3372332| 0.00159403| 0.04361456|
| Chr7  | 1.08744015| 2.10372602| 13.3191887| 0.00160302| 0.04365858|
| Avpl1 | -0.7850763| 3.24214639| 13.3051514| 0.00161037| 0.04365858|
| Sptbn4| 1.42313009| 3.60591124| 13.3045474| 0.00161068| 0.04365858|
| Cox14 | -0.5748509| 5.326743 | 13.2942098| 0.00161599| 0.04365858|
| Eif1b | -0.5138253| 5.81897077| 13.2807526| 0.00162293| 0.04365858|
| Rnf185| -0.5412304| 5.79909455| 13.2796331| 0.00162351| 0.04365858|
| Gm10677| 1.79003415| 1.60301891| 13.2691478| 0.00162894| 0.04365858|
| Gabpa | -0.4810708| 6.71949932| 13.2646268| 0.00163129| 0.04365858|
| F630111L10f| 1.36953057| 2.56004193| 13.2428324| 0.00164266| 0.04376346|
| Bcan  | 0.93910504| 4.67204944| 13.2377255| 0.00164534| 0.04376346|
| Cdan1 | 0.78410783| 3.37040138| 13.2314999| 0.00164861| 0.04376346|
| Mfsd3 | 2.53862517| 5.4359466 | 13.1842154| 0.00167369| 0.04405081|
| Tmem198b| -1.8165454| 0.79725695| 13.1818499| 0.00167946| 0.04405081|
| Vps28 | -0.5507113| 5.80975147| 13.1562634| 0.00168872| 0.04405081|
| Rgs11 | 1.51416688| 1.52849034| 13.1548145| 0.0016895| 0.04405081|
| Lyrin | -1.01138111| 2.71571946| 13.1418349| 0.00169653| 0.04405081|
| Thsd7b| 1.62254801| 1.27825354| 13.1256705| 0.00170533| 0.04405081|
| Serac1 | 0.75718463| 5.45659715| 13.1047189| 0.00171681| 0.04405081|
| Fgf16 | 6.54020792| -1.5914107| 13.1013392| 0.00171867| 0.04405081|
| 4930449E18l| 3.27970357| -0.8202355| 13.0949719| 0.00172219| 0.04405081|
| Simc1 | 0.59016457| 4.18232201| 13.0937635| 0.00172285| 0.04405081|
| Hmgxb4| -0.5134958| 5.2954056 | 13.0911644| 0.00172429| 0.04405081|
| Clq13 | 0.56542364| 6.79431107| 13.0812561| 0.00172978| 0.04405081|
| 2310047M1C| -1.0495069| 2.67892349| 13.0738323| 0.0017339| 0.04405081|
| Atr  | 0.70823714| 4.55086409| 13.0702448| 0.0017359| 0.04405081|
| Serpinc1| 2.41315861| 0.12159231| 13.0650086| 0.00173881| 0.04405081|
| Pcdhb3| 1.13198603| 2.11823708| 13.0617293| 0.00174064| 0.04405081|
| Fank1 | 1.84696343| 1.26664044| 13.0576751| 0.00174291| 0.04405081|
| Gene     | Log2FoldChange | AdjustedPValue | FDR     |
|----------|----------------|----------------|---------|
| Ubr4     | 0.82593389     | 0.00174772     | 0.04405081 |
| Bud31    | -0.6134892     | 0.0017605      | 0.04405081 |
| Bhla15   | -3.2713059     | 0.00176253     | 0.04405081 |
| Ppia     | -0.6075114     | 0.00176385     | 0.04405081 |
| Dtwd2    | 1.04388991     | 0.00176425     | 0.04405081 |
| Kif18a   | 2.11905397     | 0.00176749     | 0.04405081 |
| Rab32    | -1.1280668     | 0.00177085     | 0.04405081 |
| Snd1     | 0.49049292     | 0.00177821     | 0.04405081 |
| Trank1   | 1.0669615      | 0.00178584     | 0.04405081 |
| Leo1     | -0.4622951     | 0.00178937     | 0.04405081 |
| Cccdc146 | -1.6767316     | 0.00179129     | 0.04405081 |
| 2310022B05| -0.5220018    | 0.00179259     | 0.04405081 |
| Ahi1     | 0.69878343     | 0.0018018      | 0.04405081 |
| Loh12cr1 | -0.9359401     | 0.00180388     | 0.04405081 |
| Kbtbd8   | 0.86812733     | 0.00181343     | 0.04405081 |
| Prdm5    | 0.92710292     | 0.00181348     | 0.04405081 |
| Atad2b   | 0.59424961     | 0.00181922     | 0.04405081 |
| Nicn1    | -0.4287711     | 0.00182228     | 0.04405081 |
| Gm19990  | -4.699984      | 0.00182315     | 0.04405081 |
| Exosc6   | -0.7874097     | 0.00182695     | 0.04405081 |
| Cacng5   | 1.21549394     | 0.00183033     | 0.04405081 |
| Nup214   | 0.56567745     | 0.00185374     | 0.04418362 |
| Chrnb1   | 0.93177612     | 0.00185377     | 0.04418362 |
| Atpaf1   | -0.4849782     | 0.00186489     | 0.04418362 |
| Rpl35    | -0.679864      | 0.00186618     | 0.04418362 |
| Xpo6     | 0.39394101     | 0.00186751     | 0.04418362 |
| Atp7a    | 0.58047117     | 0.00186836     | 0.04418362 |
| Pts      | -0.6315419     | 0.00187124     | 0.04418362 |
| Ndufab1  | -0.5137972     | 0.00187539     | 0.04418362 |
| Med12l   | 0.89810895     | 0.00187644     | 0.04418362 |
| Ttn      | 1.0754046      | 0.00188809     | 0.04435122 |
| Dmrt1    | -1.4129333     | 0.00189653     | 0.0444287 |
| Notch1   | 1.15413377     | 0.00190259     | 0.04447552 |
| Bmpr1b   | 0.83180643     | 0.00190700     | 0.04447552 |
| Pdgfc    | -1.0326422     | 0.00191805     | 0.04462703 |
| Ddit3    | -0.7213691     | 0.00192881     | 0.04477105 |
| 1700009P17I| -1.4577648   | 0.00194619     | 0.04506765 |
| Plekhh5  | 0.62973745     | 0.00196479     | 0.04537701 |
| Nme7     | 0.92667665     | 0.00197224     | 0.04537701 |
| Mir872   | -5.5657738     | 0.00198143     | 0.04537701 |
| Fstl4    | 0.76162265     | 0.00198378     | 0.04537701 |
| Pyroxd1  | 0.69866121     | 0.00198601     | 0.04537701 |
| Pcdhb22  | 0.98782616     | 0.00198994     | 0.04537701 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  |
|-------|---------|---------|---------|---------|---------|
| Hprt  | -0.4216115 | 7.88764741 | 12.6444656 | 0.00199198 | 0.04537701 |
| Clybl | -0.6933731 | 4.35151724 | 12.633546 | 0.00199908 | 0.045433 |
| Slc39a3 | 0.80073834 | 3.21713689 | 12.6263238 | 0.00200379 | 0.0454346 |
| Clqbp | -0.4618206 | 5.21647744 | 12.605661 | 0.00201733 | 0.04563597 |
| Bri3bp | 0.5575667 | 5.72851111 | 12.580414 | 0.00203401 | 0.04585343 |
| Celsr3 | 1.4370226 | 4.73290508 | 12.5769605 | 0.0020363 | 0.04585343 |
| 5830418K08 | 0.78099025 | 5.57717409 | 12.5370781 | 0.002063 | 0.04634805 |
| Snapc5 | -0.6709699 | 6.27476818 | 12.5191515 | 0.00207512 | 0.04645353 |
| BC023829 | -0.8430561 | 3.99356688 | 12.5134682 | 0.00207898 | 0.04645353 |
| Fam103a1 | -0.4988577 | 7.87600911 | 12.5091555 | 0.00208192 | 0.04645353 |
| 4930419G24 | 1.64218668 | 1.826446 | 12.4993922 | 0.00208858 | 0.04646569 |
| 2810408M05 | -0.7627271 | 3.2236678 | 12.4944648 | 0.00209195 | 0.04646569 |
| Theg | 3.18053744 | -0.8968574 | 12.4730056 | 0.0021067 | 0.04658219 |
| Omd | 0.57476015 | 5.17347677 | 12.4729986 | 0.00210671 | 0.04658219 |
| 1110008L16f | -0.5426897 | 4.36276235 | 12.4602867 | 0.0021155 | 0.04667125 |
| Tex35 | 5.58921668 | -1.7940402 | 12.4312965 | 0.00213571 | 0.046744 |
| Tnc | 1.36048443 | 1.7869043 | 12.4295699 | 0.00213692 | 0.046744 |
| Gm16702 | 0.78470523 | 4.40077098 | 12.4200096 | 0.00214363 | 0.046744 |
| Nup155 | 0.64544316 | 5.24826961 | 12.418883 | 0.00214442 | 0.046744 |
| Nckap5 | 0.90913793 | 3.2134606 | 12.4112754 | 0.00214978 | 0.046744 |
| Iso2a | -1.1010741 | 1.96736771 | 12.4057552 | 0.00215368 | 0.046744 |
| Gabrg1 | 0.91378923 | 3.40402134 | 12.4020914 | 0.00215628 | 0.046744 |
| Casp4 | -1.6733343 | 0.78416586 | 12.4010785 | 0.00215699 | 0.046744 |
| Myd88 | -1.2272518 | 2.78060897 | 12.3830284 | 0.00216982 | 0.0469186 |
| 1500009C09I | -0.5709352 | 5.50390501 | 12.3738297 | 0.00217639 | 0.046957 |
| Mlixp | 0.53014965 | 5.16406634 | 12.3265328 | 0.00221052 | 0.04737501 |
| Calcr | 2.56013504 | 0.29845713 | 12.3157392 | 0.00221839 | 0.04737501 |
| Nos1 | 0.96073656 | 3.24246223 | 12.3142512 | 0.00221948 | 0.04737501 |
| Sdf2L1 | -0.9158146 | 2.66460887 | 12.3122386 | 0.00222095 | 0.04737501 |
| Pkh1 | -4.7846802 | -0.6882453 | 12.3109916 | 0.00222187 | 0.04737501 |
| Trim56 | -0.7635863 | 3.52885382 | 12.3070079 | 0.00222478 | 0.04737501 |
| Eri1 | -0.5035348 | 5.71435781 | 12.2955204 | 0.00223322 | 0.04745155 |
| Gfi1 | -7.0324756 | -1.3103246 | 12.9192591 | 0.00225226 | 0.0475246 |
| 2900011O08 | -0.4610816 | 7.725197 | 12.2687755 | 0.00225301 | 0.0475246 |
| Atrnl1 | 0.45916466 | 6.22704218 | 12.2576502 | 0.00226129 | 0.0475246 |
| Sde2 | -0.5353481 | 4.81445549 | 12.2557301 | 0.00226273 | 0.0475246 |
| Ift27 | -0.9790228 | 2.67768703 | 12.2507947 | 0.00226642 | 0.0475246 |
| Cers3 | -5.9736773 | -1.6244005 | 12.2473277 | 0.00226901 | 0.0475246 |
| Mcpt2 | 1.16552709 | 1.62389427 | 12.2342222 | 0.00227886 | 0.0475246 |
| Sqstm1 | -0.9065516 | 8.74120663 | 12.2320255 | 0.00228051 | 0.0475246 |
| A730036I17F | 5.67272766 | -1.0930303 | 12.2277852 | 0.00228371 | 0.0475246 |
| Ppifos | 4.63243929 | -1.5463159 | 12.2195985 | 0.0022899 | 0.0475246 |
| Yipf2 | 1.3968923 | 1.33348163 | 12.2150919 | 0.00229331 | 0.0475246 |
| Gene  | 0.7320012  | 4.08922005 | 12.2012439  | 0.00230384 | 0.0475246 |
|-------|-------------|------------|-------------|-------------|-----------|
| Wdr34 | 0.85107865 | 3.15942228 | 12.1962622  | 0.00230763 | 0.0475246 |
| Pomp2 | 0.68478454 | 3.59827126 | 12.1932184  | 0.00230996 | 0.0475246 |
| Ndub10| -0.5764642 | 5.91536809 | 12.1929329  | 0.00231018 | 0.0475246 |
| Paqr8 | 0.49421287 | 5.11849638 | 12.1875591  | 0.00231429 | 0.0475246 |
| Metap1| -0.4657109 | 6.1717032  | 12.172592   | 0.00232578 | 0.04766071|
| Pcdh15| 0.87766519 | 4.87020321 | 12.1518917  | 0.00234178 | 0.04785677|
| Jph3  | 0.54806855 | 5.02951187 | 12.1475931  | 0.00234512 | 0.04785677|
| S7c7a1| 0.52735754 | 5.28699118 | 12.133713   | 0.00235594 | 0.04790819|
| 18100110O10| -1.2220885 | 4.30148064 | 12.1315988  | 0.00235759 | 0.04790819|
| Mrps15| -0.6574839 | 4.23879358 | 12.1221184  | 0.00236501 | 0.04790819|
| Sdk2  | 0.93376487 | 3.60874328 | 12.0860199  | 0.00239352 | 0.04790819|
| Trpc6 | 1.12686463 | 2.85249854 | 12.0849151  | 0.00239444 | 0.04790819|
| Zef1  | 0.89827929 | 5.30413241 | 12.084101   | 0.00239448 | 0.04790819|
| Asah2 | 0.56204995 | 5.7264065  | 12.0810949  | 0.00239744 | 0.04790819|
| Cntrnap1| 0.64633976 | 5.86954492 | 12.080367   | 0.00239802 | 0.04790819|
| Ppp1r11| -0.6185984 | 4.56555625 | 12.0774144  | 0.00240037 | 0.04790819|
| Coa4  | -1.219492 | 2.07474742 | 12.0478438  | 0.00242408 | 0.04790819|
| Pcdh9 | 1.10693876 | 2.25524528 | 12.0472612  | 0.00242455 | 0.04790819|
| Selo  | 1.18046343 | 1.26997923 | 12.0470247  | 0.00242474 | 0.04790819|
| Ncf4  | -3.9453038 | -0.9556413 | 12.045806   | 0.00242572 | 0.04790819|
| Nup188| 0.89893743 | 3.73342481 | 12.0419429  | 0.00242884 | 0.04790819|
| Vegfb | -0.6016637 | 4.6599426  | 12.0377218  | 0.00243226 | 0.04790819|
| Txl4a | -0.538076  | 6.03320287 | 12.0348774  | 0.00243456 | 0.04790819|
| Ubp1  | 0.53243147 | 6.29825145 | 12.0298555  | 0.00243863 | 0.04790819|
| 4632427E13| 1.86708456 | 1.56758032 | 12.0214822  | 0.00244544 | 0.04790819|
| Dusp14| -0.5453669 | 5.93030232 | 12.0206851  | 0.00244609 | 0.04790819|
| AF3F7359| 1.0439386 | 2.62008413 | 12.0166184  | 0.00244944 | 0.04790819|
| Cdk5rap1| 1.75657437 | 1.39925974 | 12.0129757  | 0.00245237 | 0.04790819|
| Rnf11 | -0.4205467 | 6.86253353 | 12.0094645  | 0.00245524 | 0.04790819|
| Fnbp4 | 0.54502716 | 5.76659596 | 11.9792923  | 0.00248005 | 0.04811128|
| Ddx26b| 0.97537482 | 4.50924521 | 11.9773322  | 0.00248167 | 0.04811128|
| Crygs | -5.5090061 | -2.0379571 | 11.9714244  | 0.00248657 | 0.04811128|
| 2010204K13| -0.9648243 | 2.63947415 | 11.9673622  | 0.00248994 | 0.04811128|
| Cyb5r2| 5.50820544 | -1.4312352 | 11.9670365  | 0.00249021 | 0.04811128|
| Akirin1| -0.4756774 | 5.78929013 | 11.9573613  | 0.00249826 | 0.04813012|
| 4933431G14| 2.12194343 | 0.30495939 | 11.9538733  | 0.00250117 | 0.04813012|
| Lphen3| 0.65343731 | 6.76500608 | 11.9481818  | 0.00250592 | 0.04813012|
| Pate2 | 2.10912475 | 2.0605937 | 11.9346514  | 0.00251727 | 0.04825341|
| Ptprn | 0.65759682 | 6.91147551 | 11.9257279  | 0.00252478 | 0.04830292|
| Ankr13c| -0.4131252 | 6.39659034 | 11.8959476  | 0.00255004 | 0.04857652|
| Myl12b| -0.6356497 | 7.8337359  | 11.8908747  | 0.00255437 | 0.04857652|
| Golga7b| -0.7654607 | 4.36180067 | 11.8826841  | 0.00256138 | 0.04857652|
| Gene      | Itgα10 | Cbr1  | Agbl1  | Ccdc89 | Pkp2  | D17Wsu92e | Pcdh11x | Sp100 | Fnip2 | Cbr1  | Agbl1  | Ccdc89 | Pkp2  | D17Wsu92e | Pcdh11x | Sp100 | Fnip2 | Arhgap24 | Smug1  | Prkch  | Ythdf2 | Ogt    | Prph   | Alas2  | Ttl1   | Mdn1   | Xdh    | Gmps   | Nlrp6  | Tmem25 | Adamins | Asah1   | Galnt16 | Cyb5r4 | Bbs7   | Ptpn23  | Kirrel3 | Gpr87  | Rab12  | Eif4e  | Ssh3   | Gdap10 | Tars2  | Dusp28 | Dnajc21 | Smg1   | Inf2   | Ilkbk  | Slc30a1 | Ercc4   | Gmds   |
|-----------|--------|-------|--------|--------|-------|-----------|---------|--------|-------|--------|--------|--------|--------|-------|-----------|---------|--------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           | 0.9181 | -0.55 | -3.35  | 2.32   | 1.14  | -0.36    | 0.78    | -0.78  | 0.61   | -0.82  | -0.53  | -0.35  | 2.32   | 1.14  | -0.36    | 0.78    | -0.78  | 0.61   | -0.82   | -0.53  | -0.35  | 2.32   | 1.14  | -0.36  | 0.78    | -0.78  | -0.78  | 0.61   | 0.52   | 0.73   | -4.80  | 1.82   | -0.43  | 1.26   | 0.52   | 0.73   |
|           | 10      | 19    | 11     | 20     | 21    | 22       | 23       | 24     | 25     | 26     | 27     | 28     | 29     | 30     | 31       | 32       | 33     | 34     | 35       | 36     | 37     | 38     | 39     | 40     | 41     | 42     | 43     | 44     | 45     | 46     | 47     | 48     | 49     | 50     | 51     |
|           | 0.0256 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025   | 0.0025   | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025   | 0.0025   | 0.0025 | 0.0025 | 0.0025   | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 |
| Gene   | Shank1 | 5730409E04I | Ndutfaf3 | Tcerg1 | Cmdmd10 | Aurkb | Synpr | Aida | Slc22a12 | Grik2 | Daxx | Gm16596 | Ttc33 | Mce1 | Srpx2 | Prkd1 | Wsb1 | Gpr165 | Lrrc16a | Atp11b | Frm2 | Apopt1 | Intu | Exosc9 | 2700029M06C | Erlin2 | Maob | Snrpf | Gtf2f2 | Rad23b | Hrnpp1 | Erdr1 | Magoh | Cd209c | Gm19466 | Malat1 | Tmem86b | Lgy1 | Pddc1 | Rsrcl | Bbip1 | Gcdh | Arl16 |
|--------|--------|-------------|---------|--------|---------|--------|-------|------|---------|-------|------|----------|-------|------|--------|-------|------|--------|--------|-------|------|--------|------|-------|----------|--------|------|--------|-------|--------|----------|-------|------|--------|-------|--------|----------|-------|------|--------|-------|--------|----------|
|        | 0.66994432 | 8.94138459 | 0.00028691 | 11.5456738 | 0.05018869 | -0.3440228 | 6.93327288 | 0.00287363 | 11.5401616 | 0.05018869 | -0.6407789 | 4.14631992 | 11.5402068 | 0.05018869 | 0.90359986 | 2.69450517 | 0.00288097 | 11.533489 | 0.05021356 | -0.6196693 | 4.67204562 | 0.00288919 | 11.5250773 | 0.05026748 | 3.30855629 | 0.35228282 | 0.00291612 | 11.4977725 | 0.05032246 | 0.79398776 | 5.18302285 | 0.00292593 | 11.4878292 | 0.05032246 | 0.5634428 | 3.87874798 | 0.00293026 | 11.4834741 | 0.05032246 | 2.20433708 | 0.01562541 | 0.00293517 | 11.4785409 | 0.05032246 | -0.4235253 | 6.57140083 | 0.00293857 | 11.4751324 | 0.05032246 | -0.7445762 | 4.05548428 | 0.00293859 | 11.4751146 | 0.05032246 | 2.25442187 | 0.24432946 | 11.4674622 | 0.00294624 | 11.4509628 | 0.05036538 | 0.95017854 | 2.50520455 | 0.0029628 | 11.4509628 | 0.05049076 | 0.87523136 | 4.11688101 | 0.00296802 | 11.4457818 | 0.05049076 | 0.83766957 | 3.639751 | 0.00296915 | 11.4446611 | 0.05049076 | 0.65417273 | 4.29144179 | 0.00297419 | 11.43968 | 0.05049076 | 0.5296731 | 6.31297214 | 0.00297958 | 11.4343536 | 0.05049479 | 1.18964864 | 1.81353757 | 0.00300805 | 11.4064093 | 0.05088923 | -0.4924146 | 4.12066254 | 0.0030176 | 11.3971014 | 0.05092389 | 0.70719373 | 4.51360505 | 0.00302225 | 11.3925768 | 0.05092389 | 0.58339939 | 4.02543137 | 0.00303457 | 11.3806432 | 0.05092389 | -0.4663453 | 5.45364033 | 0.00303589 | 11.3793639 | 0.05092389 | 0.46218831 | 5.40469007 | 0.00303609 | 11.3791694 | 0.05092389 | 0.61677928 | 4.16422355 | 0.00304529 | 11.3702934 | 0.05099089 | -1.0742841 | 2.83226967 | 0.00306575 | 11.3506599 | 0.05121782 | -0.704179 | 3.1438691 | 0.0030693 | 11.3472685 | 0.05121782 | -0.3516206 | 7.99286749 | 0.00307875 | 11.3382619 | 0.0512234 | 0.4351841 | 5.07049439 | 0.00308188 | 11.3352844 | 0.0512234 | 0.88113148 | 3.40101231 | 0.00309205 | 11.3256395 | 0.0512234 | -0.5817085 | 5.17826882 | 0.00310024 | 11.317891 | 0.0512234 | 0.94991157 | 2.7033176 | 0.0031082 | 11.3103931 | 0.0512234 | 2.62720276 | -0.2042499 | 11.3069189 | 0.00311189 | 0.0512234 | 1.24252061 | 12.8518958 | 0.00311196 | 11.3068561 | 0.0512234 | 1.85456645 | 0.33394382 | 11.2995936 | 0.00311969 | 0.0512234 | -4.344712 | -1.5297551 | 11.2948724 | 0.00312473 | 0.0512234 | -0.6905713 | 3.60516068 | 11.2940797 | 0.00312558 | 0.0512234 | -0.4406107 | 5.32700455 | 11.2925976 | 0.00312716 | 0.0512234 | -0.4567466 | 5.93859455 | 11.2725626 | 0.00314867 | 0.05148954 | -0.7650335 | 3.16647822 | 11.2565353 | 0.00316599 | 0.0516566 | -0.5312484 | 4.2914429 | 11.2530511 | 0.00316779 | 0.0516566 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Vhl    | -0.5042795 | 4.8722494 | 11.2485075 | 0.0031747 | 0.0516566 |
| Btbd8  | 1.62892704 | 0.87581466 | 11.2335313 | 0.00319103 | 0.05175865 |
| Oc90   | 6.77586523 | -2.3165054 | 11.7869667 | 0.00319154 | 0.05175865 |
| Ran    | -0.3693259 | 7.71307405 | 11.217182 | 0.00320897 | 0.05189874 |
| Prdx5  | -0.6691021 | 5.90269109 | 11.2124826 | 0.00321414 | 0.05189874 |
| Inhba  | 0.4531746 | 4.79140572 | 11.2046292 | 0.00322281 | 0.05189874 |
| Jund   | -0.5987809 | 5.02178906 | 11.2027808 | 0.00322486 | 0.05189874 |
| Rgs13  | -3.0534048 | 0.46691348 | 11.1971388 | 0.00323111 | 0.05189874 |
| Fkbp1b | -0.73952 | 4.2158302 | 11.1913544 | 0.00323753 | 0.05189874 |
| Pdzd2  | 0.59177526 | 6.18780981 | 11.1725871 | 0.00325846 | 0.05189874 |
| Jpx    | 0.92268149 | 2.7866681 | 11.1688297 | 0.00326267 | 0.05189874 |
| 0610010K14I | -0.7884938 | 3.74429142 | 11.1678279 | 0.00326379 | 0.05189874 |
| Iqck   | 1.31578971 | 2.81758821 | 11.16725 | 0.00326444 | 0.05189874 |
| Slc24a4 | 1.23258919 | 2.83603818 | 11.1560422 | 0.00327703 | 0.05189874 |
| Znf512b | 0.48343161 | 4.93881231 | 11.1551903 | 0.00327799 | 0.05189874 |
| Tmem200c | 1.1986433 | 1.70233929 | 11.1523299 | 0.00328122 | 0.05189874 |
| Psmb7  | -0.5196945 | 6.85311655 | 11.1520949 | 0.00328148 | 0.05189874 |
| Sox4   | -0.8540472 | 2.90899654 | 11.1505299 | 0.00328325 | 0.05189874 |
| Ahcy1  | -0.507097 | 8.1213262 | 11.1490183 | 0.00328495 | 0.05189874 |
| Trmt61a | 0.59888014 | 4.52357401 | 11.1433322 | 0.00329138 | 0.05191657 |
| Mon2   | 0.53580513 | 6.62046016 | 11.1323275 | 0.00330386 | 0.05198461 |
| Lpl    | 0.94088666 | 4.20486379 | 11.1267358 | 0.00331022 | 0.05198461 |
| Zbtb24 | 0.57794925 | 5.10803084 | 11.1199207 | 0.003318 | 0.05198461 |
| Tmem206 | 0.73390283 | 4.40141597 | 11.1116443 | 0.00332746 | 0.05198461 |
| Telo2  | 1.5970518 | 1.49145732 | 11.1098751 | 0.00332949 | 0.05198461 |
| Ufl1   | 0.49130867 | 5.79660196 | 11.1073772 | 0.00333236 | 0.05198461 |
| Lrcc27 | -0.9268809 | 3.21464008 | 11.1022174 | 0.00333828 | 0.05198461 |
| Ahsa1  | -0.4868109 | 5.77367489 | 11.0991607 | 0.0033418 | 0.05198461 |
| Hist1h2bc | -0.6625746 | 5.43187797 | 11.0972232 | 0.00334403 | 0.05198461 |
| 2700060E02I | -0.4562257 | 5.83392768 | 11.093113 | 0.00334877 | 0.05198461 |
| Snh11  | 1.27022693 | 9.45745744 | 11.0875455 | 0.0033552 | 0.05200201 |
| Syt2   | 0.90272761 | 3.39364271 | 11.0742098 | 0.00337065 | 0.05215905 |
| Tac1   | 0.79837168 | 4.18556843 | 11.0572434 | 0.00339043 | 0.05219364 |
| Creb3l1 | -0.7924978 | 5.25308453 | 11.0550111 | 0.00339305 | 0.05219364 |
| Spred2 | -0.4286258 | 6.51431557 | 11.0483182 | 0.00340089 | 0.05219364 |
| Mrpl9  | -0.59952 | 4.48985531 | 11.0422003 | 0.00340808 | 0.05219364 |
| Ano1   | 1.14220019 | 1.54957846 | 11.0420201 | 0.00340829 | 0.05219364 |
| 2310015B20 | -1.572995 | 1.96852753 | 11.0416806 | 0.00340869 | 0.05219364 |
| Asb11  | 1.5926611 | 0.90161594 | 11.0372482 | 0.00341391 | 0.05219364 |
| Psmg4  | -1.4526094 | 1.72007138 | 11.0293268 | 0.00342326 | 0.05219364 |
| Gbp6   | -0.6264413 | 5.06947314 | 11.0260441 | 0.00342714 | 0.05219364 |
| Tacc3  | -1.1013404 | 2.22085714 | 11.0248176 | 0.0034286 | 0.05219364 |
| Mvk    | -0.7631465 | 2.941983 | 11.0223651 | 0.0034315 | 0.05219364 |
| Gene   | Log2 Fold Change |
|--------|-----------------|
| Eid1   | -0.3947509      |
| Chchd3 | -0.5472516      |
| Nop10  | -0.6037043      |
| Apobec2| 0.78289371      |
| Ntn3   | 1.6598965       |
| Ecm2   | -0.7928857      |
| Gm12359| 2.34494361      |
| Mrpl44 | -0.6393309      |
| Gata3  | -3.1023639      |
| Ttc37  | 0.82493062      |
| Biaap2l1| -0.6898792    |
| Pdlim1 | -0.8612662      |
| Gm10389| 0.83505384      |
| Kcne3  | -2.9190506      |
| Glt25d1| 0.61237216      |
| Pdcd6  | -0.5238862      |
| Kcnt1  | 0.80942654      |
| Ttk    | -3.2407726      |
| Prr15  | -2.0983522      |
| Zbtb48 | -1.4861897      |
| Hace1  | 0.47910992      |
| Zfp354c| 0.48556012      |
| Col16a1| 1.06839492      |
| Sgsm1  | 0.96474777      |
| Sorbs2os| 1.17137098   |
| E2f5   | -0.5536121      |
| Fnta   | -0.5565003      |
| 4932438A13| 0.82085397 |
| Kcne3  | -2.9190506      |
| Glt25d1| 0.61237216      |
| Pdcd6  | -0.5238862      |
| Kcnt1  | 0.80942654      |
| Ttk    | -3.2407726      |
| Prr15  | -2.0983522      |
| Zbtb48 | -1.4861897      |
| Hace1  | 0.47910992      |
| Zfp354c| 0.48556012      |
| Col16a1| 1.06839492      |
| Sgsm1  | 0.96474777      |
| Sorbs2os| 1.17137098   |
| E2f5   | -0.5536121      |
| Fnta   | -0.5565003      |
| 4932438A13| 0.82085397 |
| Dock3  | 0.87318942      |
| Bai3   | 0.66118912      |
| Apobec2| -6.3449533     |
| Rab33a | -0.7737985      |
| Sik2   | 0.45053136      |
| Rtca   | -0.5042563      |
| Rimbp2 | 0.78955961      |
| Clqtnf6| -1.6267599      |
| Nt5c3b | -0.6813832      |
| Jak3   | 2.26657746      |
| Six4   | 0.9736748       |
| Hnmt   | -0.5963265      |
| 4933404O12| -0.5962754   |
| Gene  | Expression Value | Expression Value |
|-------|------------------|------------------|
| Oasl1 | 4.8719065        | -1.023746        |
| Micall2 | 2.48847171     | 0.41934992       |
| Ctnn5 | 1.3231757       | 2.35726734       |
| Cdh11 | 0.37588252      | 6.72503246       |
| Cnnm2 | 0.75019211      | 3.86824534       |
| Ywhaz | -0.31944145     | 12.3202423       |
| Supg2 | 0.89955155      | 3.99885619       |
| Kif20a | 1.03755845     | 1.644675         |
| Gria2 | 0.73263706      | 9.08586185       |
| Polr3a | 0.64039406      | 3.97303105       |
| Brip1 | 0.91563324      | 3.21142349       |
| Acsf4 | 0.43723723      | 6.37633032       |
| 2310014L17F | 2.29188059 | -0.1128098       |
| Dynlin1 | -0.489283     | 8.0929737        |
| Osr2  | -2.6703016      | -0.6618713       |
| Krt26 | 5.01101943      | -2.0467071       |
| 2810403D21 | 2.04100219 | 0.25113302       |
| Urod  | -0.4736391      | 5.0701814        |
| Cccdc57 | 1.05533068     | 1.83468668       |
| Chchd10 | -0.5216048    | 5.60173779       |
| Atg2b | 0.68720119      | 6.04259617       |
| Osgm2 | -0.5603337      | 5.95443226       |
| Atp8b2 | 0.69645306     | 4.3200366        |
| Swi5  | -0.6322815      | 5.71478352       |
| Narg2 | 0.73118711      | 3.98398958       |
| Ednrb | 0.77632171      | 3.98408025       |
| Myom3 | 2.96025201      | -0.2197565       |
| Clasrp | 0.92148414     | 2.54147042       |
| Ctnn1 | 0.48595501      | 8.31121589       |
| Srp19 | -0.4325646      | 6.44334797       |
| Ppapdc2 | -0.3936484    | 6.28486106       |
| Lgr5  | 0.99848298      | 2.48091856       |
| Thpo  | 1.10526751      | 2.09779978       |
| Fam216a | -0.4417904   | 5.4381747        |
| Fam124a | 0.58878182   | 4.4110444        |
| Ephb1 | 0.69102993      | 3.65570156       |
| A330021E22 | 0.65722664 | 4.08752451       |
| Pnpla1 | 1.48978257     | 0.93176736       |
| Amica1 | -1.4315914     | 1.3615346        |
| Tyms  | 0.73878939      | 3.66644618       |
| Epha6 | 0.64222201      | 4.797951         |
| Bcas2 | -0.3724949      | 5.77682026       |
| Ptpla2 | 0.79448048     | 3.7755559        |
| Gene     | 0.65517005 | 3.68241767 | 10.207471 | 0.00456741 | 0.05777977 |
|----------|------------|------------|-----------|-------------|------------|
| Camsap3  | 0.68183303 | 3.48513944 | 10.203752 | 0.00457347 | 0.05777977 |
| Wdr33    | 0.59929276 | 5.10123031 | 10.195778 | 0.0045865 | 0.05777977 |
| Ttl4     | 0.96294629 | 2.29826772 | 10.188039 | 0.00459917 | 0.05777977 |
| Rrp7a    | -0.7373523 | 4.01122213 | 10.181306 | 0.00461024 | 0.05777977 |
| Cml1     | -1.5107593 | 1.30335737 | 10.180136 | 0.00461216 | 0.05777977 |
| Herc2    | 0.74330554 | 7.52920546 | 10.168510 | 0.00463135 | 0.05777977 |
| E330020D12| 1.01332273 | 3.84757115 | 10.164026 | 0.00463877 | 0.05777977 |
| Map1lc3a | -0.690763  | 4.80328015 | 10.154037 | 0.00465535 | 0.05777977 |
| 9330175M2C| 1.92761583 | 1.18172473 | 10.151656 | 0.00465931 | 0.05777977 |
| Tmsb4x   | -0.6131547 | 8.89562074 | 10.151513 | 0.00465955 | 0.05777977 |
| Ints6    | -0.50924356| 4.96000102 | 10.150662 | 0.00466097 | 0.05777977 |
| Olfr1417 | 7.00478941 | -2.0114826 | 10.610422 | 0.0046634 | 0.05777977 |
| Mrps21   | -0.6332614 | 5.03713123 | 10.147586 | 0.00466609 | 0.05777977 |
| Tmem5    | -0.5375071 | 4.60960499 | 10.147113 | 0.00466688 | 0.05777977 |
| Mfsd11   | 0.73538628 | 3.18360502 | 10.146920 | 0.0046672 | 0.05777977 |
| Depdc5   | 0.6273708 | 5.25652569 | 10.143183 | 0.00467344 | 0.05777977 |
| Dok5     | 0.70776277 | 3.31033104 | 10.142120 | 0.00467522 | 0.05777977 |
| Chd8     | 0.50662166 | 6.62880664 | 10.140882 | 0.00467729 | 0.05777977 |
| 6330415B21| 0.86041756 | 3.14758581 | 10.140651 | 0.00467767 | 0.05777977 |
| Tas2r137 | 7.79974891 | -1.9346366 | 11.298975 | 0.00469435 | 0.0578043 |
| Tenm1    | 0.8460284 | 5.44457367 | 10.129187 | 0.00469688 | 0.0578043 |
| Ubr1     | 0.58726408 | 6.15641405 | 10.128903 | 0.00469736 | 0.0578043 |
| Bcl2a1d  | -1.3125873 | 1.18069673 | 10.123471 | 0.0047065 | 0.05782325 |
| Npas3    | 0.71369474 | 3.93110127 | 10.120970 | 0.00471071 | 0.05782325 |
| Ccdc181  | -0.5164235 | 5.18637453 | 10.113658 | 0.00472305 | 0.05787949 |
| Cndp2    | -0.5352766 | 4.36161415 | 10.111258 | 0.00472711 | 0.05787949 |
| Nmur2    | 6.7552268 | -1.6835497 | 10.105718 | 0.00473649 | 0.05791102 |
| Sub1     | -0.447092 | 8.79956942 | 10.102761 | 0.00474151 | 0.05791102 |
| Igf1r    | 0.43276781 | 6.90698274 | 10.090298 | 0.00476271 | 0.0580976 |
| Nrep     | -0.5024751 | 7.95133817 | 10.082236 | 0.00477649 | 0.05819317 |
| Taf1     | 0.47587414 | 6.83215299 | 10.07314 | 0.00479208 | 0.05831064 |
| Slc1a2   | 0.59886673 | 10.9655463 | 10.066711 | 0.00480314 | 0.05837267 |
| Snrnp70  | 0.57520278 | 5.73712397 | 10.059928 | 0.00481484 | 0.05844229 |
| Arf2     | -0.5495141 | 6.06373611 | 10.0542546 | 0.00482464 | 0.058444 |
| C030013G03| -0.8029933 | 2.95740626 | 10.0529458 | 0.00482691 | 0.058444 |
| Birc6    | 0.76096018 | 7.93359802 | 10.0306292 | 0.00486572 | 0.05878371 |
| Rpl12    | -0.4767342 | 6.78598507 | 10.0299157 | 0.00486969 | 0.05878371 |
| Atp6v1d  | -0.3275713 | 8.33107629 | 10.0234273 | 0.00487832 | 0.05884827 |
| A930011O12| 1.26444924 | 4.98274965 | 10.0170981 | 0.00488942 | 0.05885126 |
| Cdc42se2 | -0.3645643 | 6.29738969 | 10.0164368 | 0.00489059 | 0.05885126 |
| 1700047M11| 1.13258211 | 1.0395494 | 10.0070893 | 0.00490704 | 0.05893055 |
| Zik1     | 0.69785095 | 3.46310341 | 10.0058603 | 0.00490921 | 0.05893055 |
| Gene     | Log2 Ratio | P-value  | Fold Change |
|----------|------------|----------|-------------|
| Gm14827  | 1.24265231 | 0.00492429 | 9.99732692  |
| 04-Mar   | -0.4805119 | 0.00492735 | 9.99559942  |
| Cmtrm8   | -2.1638812 | 0.00494262 | 9.98699074  |
| Acsbg1   | 0.52581297 | 0.00494965 | 9.98304395  |
| Gabrg2   | 0.48593545 | 0.00495726 | 9.97877391  |
| Pcdhga6  | 0.93411189 | 0.0049613 | 9.9765086  |
| 1810026B05 | 0.60042304 | 0.00497232 | 9.97034401  |
| Itga9    | 0.67994639 | 0.00497555 | 9.968538    |
| Cacna1b  | 0.66565502 | 0.00498453 | 9.96352995  |
| H2-T23   | 0.52339765 | 0.00499861 | 9.95569157  |
| Meig1    | -1.9737965 | 0.00501077 | 9.94894528  |
| Fam9a2   | -0.4264016 | 0.00501191 | 9.94831388  |
| Bag1     | -0.5689537 | 0.00501704 | 9.94547534  |
| Igf2r    | 0.53241052 | 0.00501717 | 9.94540475  |
| Ywhae    | -0.3832566 | 0.00502794 | 9.93945309  |
| Psmb2    | 0.5570207 | 0.00503207 | 9.93717448  |
| Ccdc88c  | 0.70780303 | 0.0050365 | 9.93473136  |
| Zfp787   | -1.3894424 | 0.00503953 | 9.93062425  |
| Rwdd1    | -0.4725645 | 0.00505423 | 9.9249849  |
| BC035044 | -1.7507949 | 0.0050636 | 9.91984646  |
| Fbn1     | 0.70741749 | 0.00506948 | 9.91663068  |
| Polr2k   | -0.5534292 | 0.00507939 | 9.91121751  |
| Gm4532   | 4.43694249 | 0.00508655 | 9.90731204  |
| Polr2m   | -0.4356847 | 0.0051117 | 9.89364638  |
| Fezf1    | 0.64635938 | 0.00511953 | 9.88940557  |
| Uggt2    | 0.78847298 | 0.00512981 | 9.88385068  |
| Cdk2ap1  | -0.4675798 | 0.00513026 | 9.88360628  |
| Unc80    | 0.78402518 | 0.00513604 | 9.88049797  |
| 0610012G03 | -0.7352622 | 0.00513944 | 9.8786605  |
| 4933431E20I | -0.4107821 | 0.00514173 | 9.87742673  |
| Rhno1    | -0.7895565 | 0.0051416 | 9.87512961  |
| Dnajb6   | -0.3426969 | 0.00515029 | 9.87281907  |
| Oscar    | 2.32728486 | 0.00515052 | 9.8726961  |
| Atbp2b   | 0.57535372 | 0.00517231 | 9.86101623  |
| Krt1     | 1.51854724 | 0.00517442 | 9.85988544  |
| Rnf141   | -0.6138071 | 0.00517813 | 9.85790371  |
| Tmx3     | 0.5217959 | 0.00517841 | 9.85775471  |
| Hs3st4   | -0.506159 | 0.00517925 | 9.85730765  |
| B230118H07 | -0.5192024 | 0.00518037 | 9.85670843  |
| Tdrd6    | 2.7568367 | 0.00519087 | 9.85110677  |
| Ndfp1    | -0.5317034 | 0.00519464 | 9.84910328  |
| Leprel2  | 0.81698883 | 0.00519668 | 9.84801394  |
| Calm3    | -0.3458014 | 0.00520021 | 9.84613769  |
| Gene | Expression Value |
|------|------------------|
| Unc50 | -0.4956845 5.64596372 9.84346851 0.00520524 0.0592424 |
| Chpf2 | 0.9883744 2.28687468 9.84234727 0.00520735 0.0592424 |
| Ttc13 | 0.80229391 3.19742116 9.82597261 0.0052383 0.05943162 |
| Bcl7b | -0.5592614 4.11000641 9.82544122 0.0052393 0.05943162 |
| Lats2 | -0.5039903 6.82253489 9.82392434 0.00524218 0.05943162 |
| Cxcr2 | 0.7296662 4.02308333 9.81362474 0.00526177 0.05958472 |
| Al504432 | 0.52371063 5.6203491 9.79413884 0.00529905 0.0599376 |
| Llph | -0.5733208 7.07072829 9.79002279 0.00530696 0.05995786 |
| Nphp1 | 0.56900866 4.83149152 9.77921301 0.0053278 0.06006822 |
| Ercc6l | 2.71142015 -0.7930277 9.77859749 0.00532899 0.06006822 |
| N6amt2 | -0.7282072 3.86164223 9.77223379 0.00534131 0.060113783 |
| Pirt | -7.2165135 -0.890339 9.76816183 0.00534921 0.0601576 |
| Ncan | 0.53633595 8.37898818 9.7647704 0.00535579 0.06016261 |
| Gapvd1 | 0.46654157 6.04140785 9.75938617 0.00536627 0.06021124 |
| Tulp4 | 0.37209713 8.14953768 9.74697267 0.00539051 0.06041402 |
| Atpsg1 | -0.5948541 5.41654017 9.73887663 0.00540639 0.06045778 |
| Gm4371 | -6.2032044 -0.7745846 9.73868625 0.00540676 0.06045778 |
| Aldob | 2.90560749 0.34713287 9.73423881 0.0054155 0.0604865 |
| 2410089E03i | 0.88452821 5.88888922 9.72520062 0.00543332 0.06058924 |
| Sipai3 | 0.46749511 5.34766959 9.72330164 0.00543707 0.06058924 |
| Il1rn | -4.3239808 -1.1083452 9.71922949 0.00544513 0.06061004 |
| Paxbp1 | 0.66551482 5.67637254 9.71224136 0.00545898 0.06069528 |
| Eif2s3y | 0.84665505 5.08863465 9.69998093 0.00548338 0.06089746 |
| Sez6 | 0.60046801 4.84745636 9.68844278 0.00550646 0.06104002 |
| Spata2 | -0.5710857 5.49015829 9.68733286 0.00550868 0.06104002 |
| Mrps36 | -0.5136184 5.16856347 9.67844384 0.00552654 0.06111264 |
| Wnt5b | -1.4090712 1.1476272 9.6778609 0.00552771 0.06111264 |
| Pde10a | 0.66638971 7.06493354 9.66797491 0.00554766 0.06126397 |
| Ube3a | 0.48391056 6.7638615 9.66438097 0.00555492 0.06127516 |
| Fkbp3 | -0.362229 6.9856642 9.64234143 0.00559974 0.06166518 |
| A630089N07 | 1.10582934 8.10768397 9.64080591 0.00560287 0.06166518 |
| Nol12 | -0.8327731 2.8081033 9.62074215 0.00564404 0.06191465 |
| Col10a1 | 2.44021206 -0.5031777 9.62057598 0.00564438 0.06191465 |
| Arhgef28 | 0.54848045 4.27869738 9.61397957 0.00565799 0.06191465 |
| Pikfyve | 0.53275984 6.77056476 9.6112392 0.0056639 0.06191465 |
| Apol7b | -2.5758209 -0.4814013 9.60752608 0.00567134 0.06191465 |
| Pcsk5 | 0.74742308 4.26563116 9.604554 0.0056775 0.06191465 |
| 2010107G23 | -0.5928491 4.05042054 9.60378331 0.0056791 0.06191465 |
| Eif2s2 | -0.352466 7.44919119 9.60274975 0.00568125 0.06191465 |
| Rapgefl1 | 0.43443471 6.31641623 9.59840903 0.00569026 0.06191465 |
| Zfp575 | 0.88826486 2.81930145 9.59489205 0.00569758 0.06191465 |
| Gm15910 | 0.83746313 4.50043733 9.59356301 0.00570035 0.06191465 |
| Lrp4 | 0.60338054 3.95895007 9.59306378 0.00570139 0.06191465 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|--------|---------|---------|---------|---------|---------|---------|
| Fam208b| 0.65218344 | 6.55451205 | 9.58966372 | 0.00570848 | 0.06192299 |
| Zw10   | 1.22557973 | 2.49338319 | 9.57513726 | 0.00573888 | 0.06218387 |
| Ppp1r3b| -0.7202032 | 4.93530695 | 9.56707909 | 0.00575582 | 0.06223715 |
| Sh3bg1r3| -0.5277403 | 6.73140754 | 9.56530927 | 0.00575955 | 0.06223715 |
| D030045P18 | 3.85291023 | -0.5537525 | 9.56098029 | 0.00576886 | 0.06223715 |
| Dgat1  | 1.40927374 | 1.99018369 | 9.55860163 | 0.0057737 | 0.06223715 |
| Gm10471| 1.22768056 | 1.85774165 | 9.55771997 | 0.00577556 | 0.06223715 |
| C23003S16R | -2.9398268 | 0.05992777 | 9.53963672 | 0.00581393 | 0.06258172 |
| Tmem72 | -4.4608859 | -1.1869953 | 9.53168009 | 0.0058309 | 0.0626955 |
| Mgst3  | -0.7135042 | 3.55588685 | 9.52178184 | 0.00585209 | 0.06274306 |
| Phyh   | -0.3900421 | 7.28550816 | 9.51942411 | 0.00585715 | 0.06274306 |
| 2210016L21f | -0.4565035 | 6.25796474 | 9.51889601 | 0.00585828 | 0.06274306 |
| Iqsec2 | 0.51912513 | 5.69733138 | 9.51765608 | 0.00586094 | 0.06274306 |
| Cep97  | 0.8433473  | 4.58543126 | 9.50599558 | 0.00588606 | 0.0629153 |
| Lsmem1 | -5.3442786 | -1.4809773 | 9.50422574 | 0.00588988 | 0.0629153 |
| Sox11  | 0.64626455 | 4.87642157 | 9.48192296 | 0.00593828 | 0.06336323 |
| Cdh10  | 0.61126653 | 5.14094305 | 9.47550576 | 0.00595229 | 0.0644359 |
| Ptg1   | -0.3532457 | 7.98831182 | 9.46371625 | 0.00597812 | 0.06363119 |
| Prdx4  | 0.63749903 | 3.41192748 | 9.46154993 | 0.00598288 | 0.06363119 |
| Zfpi61 | -0.4221766 | 5.09700489 | 9.45475004 | 0.00599785 | 0.06368266 |
| Dnaja3 | -0.4574108 | 5.03685258 | 9.45344713 | 0.00600072 | 0.06368266 |
| Zc3h7a | 0.6317012 | 5.52498518 | 9.43403656 | 0.00604371 | 0.0640694 |
| Slc7a14| 0.49559035 | 7.01975861 | 9.42841901 | 0.00605621 | 0.06409274 |
| Naa16  | -0.645062 | 4.04612996 | 9.42716989 | 0.00605899 | 0.06409274 |
| Tmem68 | 0.43407151 | 5.12180934 | 9.42028093 | 0.00607437 | 0.06418612 |
| Pir    | -0.5906665 | 3.46972287 | 9.41350467 | 0.00608955 | 0.06425107 |
| Igdc4  | 0.41692842 | 5.11809547 | 9.41167944 | 0.00609364 | 0.06425107 |
| 9830147E19r | 0.95485399 | 1.87966411 | 9.39361075 | 0.00613433 | 0.06461056 |
| Vmnr284| 2.15886872 | 0.21344119 | 9.38449508 | 0.00615497 | 0.06475835 |
| Cdc123 | -0.4280072 | 6.25246 | 9.37939243 | 0.00616656 | 0.06481067 |
| Crpc   | -0.6083681 | 4.59667811 | 9.36294859 | 0.00620408 | 0.06513504 |
| Trim12a| -0.7955815 | 3.76202107 | 9.35729734 | 0.00621703 | 0.06519336 |
| Leap2  | 3.68123403 | -0.4596987 | 9.35432574 | 0.00622385 | 0.06519336 |
| Fgf18  | -0.9871843 | 2.47317753 | 9.34972659 | 0.00623442 | 0.06519336 |
| Naa60  | -0.3720849 | 6.11045487 | 9.34767453 | 0.00623915 | 0.06519336 |
| BB031773 | 3.77537991 | -1.0355317 | 9.34604239 | 0.00624291 | 0.06519336 |
| Denr   | -0.4384067 | 5.7057541 | 9.33928822 | 0.0062585 | 0.06527934 |
| Mvp    | -0.8601845 | 3.7879624 | 9.33352664 | 0.00627183 | 0.06527934 |
| Rragc  | -0.4112589 | 5.81121884 | 9.33098971 | 0.00627771 | 0.06527934 |
| 6330549D23 | -1.5507737 | 1.73944601 | 9.33080464 | 0.0062814 | 0.06527934 |
| Fam96a | -0.6195175 | 5.17674934 | 9.32807968 | 0.00628446 | 0.06527934 |
| Rrp36  | -1.1153723 | 2.16322795 | 9.31644314 | 0.00631155 | 0.06549123 |
| Fam208b| 0.43070165 | 6.44869303 | 9.31056309 | 0.00632528 | 0.06549451 |
| Gene    | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 | Value 15 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Brd7    | -0.381341 | 5.86924557 | 9.30685793 | 0.00633396 | 0.06549451 |
| Hgf     | 1.19589634 | 2.0473698 | 9.30648674 | 0.00633483 | 0.06549451 |
| Tango6  | -0.9041369 | 2.27746456 | 9.30487221 | 0.00633861 | 0.06549451 |
| Unc13c  | 0.43982982 | 5.92405696 | 9.29152018 | 0.00637 | 0.06574946 |
| Tmod4   | 2.60994907 | -0.5114358 | 9.27696545 | 0.00640441 | 0.06603506 |
| Reln    | 0.7969912 | 5.25469557 | 9.27123405 | 0.00641801 | 0.06610578 |
| Dlg4    | -0.4028876 | 7.45345862 | 9.26449637 | 0.00643405 | 0.06620135 |
| Tprgl   | -0.4172474 | 6.93458413 | 9.26107498 | 0.00644221 | 0.06621577 |
| Gats1l2 | -0.4029614 | 6.17021355 | 9.25577149 | 0.00645489 | 0.06627648 |
| Gm14378 | 2.01072965 | -0.2341426 | 9.2529306 | 0.00646169 | 0.06627683 |
| Rcan1   | -0.48917 | 5.88676338 | 9.24661985 | 0.00647682 | 0.06636257 |
| Cps1    | 4.46992595 | -1.1991951 | 9.23814802 | 0.0064972 | 0.06643726 |
| Eif4enf1| -0.3436432 | 6.6647732 | 9.23795017 | 0.00649767 | 0.06643726 |
| Atp5j2  | -0.5677851 | 5.43706898 | 9.21176204 | 0.00656113 | 0.06701608 |
| Fbxo27  | -0.6544087 | 3.83541768 | 9.19939974 | 0.00659132 | 0.06725434 |
| LitaF   | -0.6442832 | 4.59247002 | 9.1951142 | 0.00660182 | 0.06729141 |
| Cetn2   | -0.6436938 | 5.26854616 | 9.18554826 | 0.00662533 | 0.06739014 |
| Tpi1    | -0.476023 | 6.96436296 | 9.18040744 | 0.006638 | 0.06739014 |
| Tmem181a| 0.70558575 | 3.45736147 | 9.17861858 | 0.00664242 | 0.06739014 |
| Slk     | 0.42632988 | 8.16449595 | 9.17748148 | 0.00664523 | 0.06739014 |
| Anp32e  | -0.4093473 | 8.05480532 | 9.17720755 | 0.00664591 | 0.06739014 |
| Pnpl3   | 1.53925609 | 1.33916254 | 9.16613886 | 0.00667332 | 0.0674868 |
| A330070K13| 3.57734792 | -0.6852585 | 9.16593156 | 0.00667384 | 0.0674868 |
| Nup205  | 0.64964689 | 3.99104559 | 9.16501657 | 0.00667611 | 0.0674868 |
| Rrp9    | -1.3329905 | 1.10828275 | 9.15715856 | 0.00669566 | 0.06758105 |
| Tenm2   | 0.73936716 | 7.00559318 | 9.15522998 | 0.00670046 | 0.06758105 |
| Srgap2  | 0.3789104 | 6.07483362 | 9.15295912 | 0.00670613 | 0.06758105 |
| Csm1d   | 0.86935964 | 6.08621205 | 9.14898606 | 0.00671605 | 0.06758283 |
| Anapc11 | -0.6087719 | 4.06063091 | 9.14736647 | 0.0067201 | 0.06758283 |
| Unc45a  | -0.9242285 | 2.75728444 | 9.13948375 | 0.00673986 | 0.06771196 |
| Stag3   | 5.21418178 | -1.6816123 | 9.13203046 | 0.0067586 | 0.06778142 |
| Prr18   | 0.72224931 | 3.12852725 | 9.12716428 | 0.00677086 | 0.06778142 |
| Adam9   | 0.42525823 | 4.9569587 | 9.12500906 | 0.0067763 | 0.06778142 |
| Nfasc   | 0.50204181 | 7.70953215 | 9.12032686 | 0.00678813 | 0.06778142 |
| Insr    | 0.51472801 | 5.99010779 | 9.11800239 | 0.00679402 | 0.06778142 |
| Itga8   | 0.96826798 | 2.59275693 | 9.11676805 | 0.00679714 | 0.06778142 |
| Hmgn2   | -0.6437774 | 6.50993329 | 9.11320568 | 0.00680618 | 0.06778142 |
| Sord    | -0.5906532 | 4.3922817 | 9.11158188 | 0.0068103 | 0.06778142 |
| Btbd11  | 0.47652341 | 4.43944584 | 9.10770846 | 0.00682014 | 0.06778142 |
| 4930570G19| 0.85983434 | 3.53760825 | 9.10650227 | 0.00682321 | 0.06778142 |
| Tgtp2   | -0.8291277 | 3.77523968 | 9.10391958 | 0.00682979 | 0.06778142 |
| Adamts4 | 1.16362611 | 1.78413118 | 9.10259018 | 0.00683317 | 0.06778142 |
| Tgtp1   | -0.7795546 | 3.77009538 | 9.10119603 | 0.00683673 | 0.06778142 |
| Gene       | Value1    | Value2    | Value3    | Value4    | Value5    | Value6    |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ccdc53     | -0.6355351| 3.93266763| 9.09815506| 0.00684499| 0.06778974|
| Ptprf      | 0.45970985| 4.74980605| 9.08442607| 0.00687965| 0.0679813 |
| Taok3      | -0.4644206| 5.86871677| 9.08162516| 0.00688684| 0.0679813 |
| Fuk        | 0.97899302| 1.56267441| 9.08033668| 0.00689016| 0.0679813 |
| A230046K03 | 0.57470103| 6.37811693| 9.07977941| 0.00689159| 0.0679813 |
| Pygo2      | -0.5653984| 3.87133083| 9.07059461| 0.00691527| 0.06810926|
| Wdr3       | 0.76399214| 3.22778779| 9.06935567| 0.00691847| 0.06810926|
| Mina       | -0.8192186| 2.58326857| 9.06467596| 0.00693057| 0.06815992|
| Nqo2       | -0.5087316| 5.67377076| 9.05542796| 0.00695456| 0.06832727|
| Basp1      | -0.4125814| 9.41422249| 9.05127406| 0.00696537| 0.06836083|
| Col5a2     | 0.70915033| 2.99859565| 9.04515451| 0.00698132| 0.06836083|
| Dapp1      | -0.7166239| 4.05572574| 9.04469457| 0.00698253| 0.06836083|
| Repin1     | 0.5459412| 4.53713337| 9.04315063| 0.00698656| 0.06836083|
| Kcnk1      | 0.47795214| 5.55611367| 9.04073392| 0.00699287| 0.06836083|
| Myo10      | 0.4113456| 5.70474364| 9.03778582| 0.00700059| 0.06836081|
| Vwa8       | 0.5591465| 5.28914095| 9.02444814| 0.00703561| 0.06864158|
| Prkg1      | 0.38718799| 5.83768949| 9.00926306| 0.00707572| 0.06890015|
| Atp2c1     | 0.40115613| 6.56727985| 9.00908883| 0.00707618| 0.06890015|
| 2310069B03 | -7.3943025| -1.39454494| 9.35896168| 0.00713091| 0.06929785|
| Zfp1       | -0.4833443| 4.28516805| 8.98143343| 0.00714989| 0.06929785|
| Pak2       | -0.399061| 6.79178155| 8.97954942| 0.00715494| 0.06929785|
| Pigg       | 0.60600255| 3.45784024| 8.97812202| 0.00715877| 0.06929785|
| 1700008F211| 1.94952685| 0.94287761| 8.97690756| 0.00716203| 0.06929785|
| Slc37a3    | 0.64842624| 4.04118976| 8.97625635| 0.00716378| 0.06929785|
| Fsip1      | -4.8615874| -1.5380426| 8.97497141| 0.00716723| 0.06929785|
| Ntmt1      | -0.8491452| 2.14595237| 8.97259594| 0.00717362| 0.06929785|
| Higd1a     | -0.4113328| 6.64605834| 8.95984068| 0.00720803| 0.06951956|
| Pigm       | 0.62945278| 4.17321797| 8.95754149| 0.00721425| 0.06951956|
| Med8       | -0.4634849| 3.81984149| 8.95472195| 0.00722189| 0.06951956|
| 1110004E091| -0.6150331| 5.77998357| 8.95359027| 0.00722496| 0.06951956|
| Gabra5     | 0.43397483| 5.66006483| 8.94256609| 0.00725493| 0.06971238|
| Hbegf      | -1.1421965| 1.72876483| 8.9352738| 0.00727483| 0.06971238|
| Dnah10     | 1.42397154| 1.13140033| 8.9346704| 0.00727648| 0.06971238|
| Cyb561a3   | 0.62509932| 3.48963815| 8.93006283| 0.00728908| 0.06971238|
| Rsop4      | -3.3220124| -1.1341276| 8.92857821| 0.00729315| 0.06971238|
| Tbc1d14    | -0.439502| 5.17225701| 8.92332686| 0.00730756| 0.06971238|
| Gm9079     | 2.1848234| 0.57744358| 8.9203913| 0.00731562| 0.06971238|
| Eif2b5     | -0.5004002| 4.56639285| 8.91949311| 0.00731809| 0.06971238|
| Gfra4      | -0.5332738| 4.35583022| 8.91841284| 0.00732107| 0.06971238|
| Gnb1       | -0.329478| 9.34935257| 8.91559902| 0.00732882| 0.06971238|
| Pcna       | -0.4700508| 6.30910801| 8.91458222| 0.00733162| 0.06971238|
| A4gent     | -4.3815846| -1.4684835| 8.91127585| 0.00734074| 0.06971238|
| Ubxn6      | -0.3977612| 5.56864892| 8.90880177| 0.00734757| 0.06971238|
| Gene     | Log2FoldChange | FDR   | pValue  |
|----------|---------------|-------|---------|
| Mia3     | 0.49042448    | 0.00735455 | 0.06971238 |
| Nop16    | -0.9931108    | 0.00735513 | 0.06971238 |
| Fam213b  | -0.5878671    | 0.00735887 | 0.06981444 |
| Fxyd2    | -2.2130856    | 0.00738376 | 0.06981444 |
| Ankrd63  | 0.73132327    | 0.00738563 | 0.06981444 |
| Abcc10   | 1.29801026    | 0.00739103 | 0.06981444 |
| Tm2d2    | 0.70590434    | 0.00742018 | 0.06981444 |
| Hax1     | -0.558772     | 0.00742945 | 0.06981444 |
| AW495222 | -1.0409461    | 0.00743051 | 0.06981444 |
| Myo7a    | 1.09831449    | 0.00744023 | 0.07000921 |
| 2610307P16 | -2.1628795 | 0.00744023 | 0.07000921 |
| Slmo2    | -0.3819094    | 0.00746451 | 0.07000921 |
| BC005624 | -0.4823287    | 0.00746451 | 0.07000921 |
| E130215H24 | -5.2428193 | 0.00746451 | 0.07000921 |
| Necap2   | -0.8605284    | 0.00750066 | 0.07003356 |
| Ap1s3    | 0.81144461    | 0.00750737 | 0.07003356 |
| Acrbp    | 2.35286734    | 0.00750737 | 0.07003356 |
| Ryr3     | -1.08622404   | 0.00750737 | 0.07003356 |
| Vps29    | -0.4400861    | 0.00747142 | 0.07003356 |
| Inip      | -0.4974754    | 0.00750066 | 0.07003356 |
| Fam212b  | -0.4200232    | 0.00750066 | 0.07003356 |
| Tmem170  | -0.77666392   | 0.00750066 | 0.07003356 |
| Zfp618   | -1.0208116    | 0.00750066 | 0.07003356 |
| Ugt8a    | 0.53645412    | 0.00750066 | 0.07003356 |
| Sin3a     | 0.36780642    | 0.00750066 | 0.07003356 |
| Acsf2     | -0.5528284    | 0.00750066 | 0.07003356 |
| Fcgr3    | -1.4564497    | 0.00750066 | 0.07003356 |
| Kcnj8    | 2.03049375    | 0.00750066 | 0.07003356 |
| Stk3     | -0.4458908    | 0.00750066 | 0.07003356 |
| Zfp65     | 0.6029781     | 0.00750066 | 0.07003356 |
| Atp5l    | -0.4883659    | 0.00750066 | 0.07003356 |
| Cbfb     | -0.5671132    | 0.00750066 | 0.07003356 |
| Mfi2     | -3.1536475    | 0.00750066 | 0.07003356 |
| Atf6b    | -0.6897983    | 0.00750066 | 0.07003356 |
| Hspb11   | -0.7929791    | 0.00750066 | 0.07003356 |
| Nrg3os   | 2.08488792    | 0.00750066 | 0.07003356 |
| Unc79    | 0.79424604    | 0.00750066 | 0.07003356 |
| Srrm4os  | 1.18936205    | 0.00750066 | 0.07003356 |
| Gm14393  | -0.8239969    | 0.00750066 | 0.07003356 |
| Ppa2     | -0.4270339    | 0.00750066 | 0.07003356 |
| Pde1c    | 0.76930358    | 0.00750066 | 0.07003356 |
| 9430091E24 | -1.3664872 | 0.00776767 | 0.07084477 |
| Fam84b   | 0.68251111    | 0.00776771 | 0.07084477 |
| Gene   | Value   | Value   | Value   | Value   | Value   | Value   |
|--------|---------|---------|---------|---------|---------|---------|
| E2f6   | -0.4318813 | 5.50491294 | 8.61045349 | 0.00822599 | 0.07205093 |
| Ccdc141 | 0.55512872 | 4.28111604 | 8.60886925 | 0.00823096 | 0.07205093 |
| Maea   | -0.3599603 | 5.48426659 | 8.60178561 | 0.00825321 | 0.07214689 |
| Rsbn1l | 0.41465326 | 5.5308702 | 8.60069042 | 0.00825665 | 0.07214689 |
| Gapds  | 1.64186166 | 1.29571558 | 8.58630438 | 0.00830206 | 0.07239722 |
| 1110008P14l | -0.4509607 | 4.56807897 | 8.58620407 | 0.00830238 | 0.07239722 |
| Lgl1   | 0.5019704   | 3.95670421 | 8.58365131 | 0.00831047 | 0.07239722 |
| Idh3b  | -0.3308908   | 7.06719223 | 8.58188346 | 0.00831607 | 0.07239722 |
| Mctp1  | 0.45755347 | 5.38954545 | 8.57940744 | 0.00832393 | 0.07239722 |
| Knc1   | 0.53874227 | 6.98292561 | 8.57760839 | 0.00832965 | 0.07239722 |
| H1f0   | -0.438272  | 6.9773006   | 8.5732543  | 0.00834349 | 0.0724533 |
| Cox20  | 0.49280067 | 5.02108414 | 8.55977923 | 0.00838652 | 0.07262746 |
| Tec3l  | -0.450919  | 5.14347973 | 8.55966874 | 0.00838687 | 0.07262746 |
| Polr3gl | 0.68082395 | 2.88161822 | 8.55928396 | 0.00838811 | 0.07262746 |
| Tubgcp4 | 0.57664956 | 3.73131625 | 8.55769119 | 0.00839321 | 0.07262746 |
| Arpp19 | -0.3185713 | 9.06957208 | 8.55353342 | 0.00840655 | 0.07265075 |
| Cadm2  | 0.46985331 | 8.70551438 | 8.55053238 | 0.00841619 | 0.07265075 |
| Ppplr1c | -1.8422865 | 1.07525846 | 8.54992197 | 0.00841815 | 0.07265075 |
| Nudcd2 | -0.69334006 | 3.02746944 | 8.54255392 | 0.00844188 | 0.07274406 |
| Cacna1e | 0.70428311 | 8.22203066 | 8.54170104 | 0.00844663 | 0.07274406 |
| Nhp2l1 | -0.4274717 | 6.06380056 | 8.53739967 | 0.00845852 | 0.07274406 |
| Txdnc17 | -0.5091188 | 6.32172748 | 8.53735519 | 0.00845867 | 0.07274406 |
| Zfp105 | -0.8703277 | 3.11122438 | 8.53040652 | 0.00848116 | 0.0728215 |
| 1700019D03 | -1.1316353 | 1.69475413 | 8.5296672 | 0.00848356 | 0.0728215 |
| A730017L22l | 0.78381079 | 4.89894303 | 8.52573776 | 0.00849632 | 0.0728215 |
| Grhl2 | 1.95508746 | 0.49224649 | 8.52540175 | 0.00849741 | 0.0728215 |
| Gm20753 | 3.84025922 | -1.593677 | 8.52287222 | 0.00850754 | 0.07284455 |
| Eif4a3 | -0.4725228 | 5.00288545 | 8.51579598 | 0.00852869 | 0.0729463 |
| Ehbp111 | -0.4916013 | 4.25592144 | 8.51346554 | 0.00853629 | 0.0729463 |
| Hmgcr | 0.48122443 | 5.79284207 | 8.51179192 | 0.00854176 | 0.0729463 |
| Ttyh1 | 0.53125747 | 7.60305799 | 8.5003086 | 0.00857938 | 0.07320377 |
| Pi4ka | 0.55874208 | 8.10487444 | 8.48950394 | 0.00861495 | 0.07333835 |
| Cdk5r2 | -0.3743138 | 6.69943838 | 8.48625954 | 0.00862566 | 0.07333835 |
| Spef | -1.1710715 | 1.53809466 | 8.4862202 | 0.00862579 | 0.07333835 |
| Slc35f6 | -0.9748529 | 1.93306923 | 8.48572512 | 0.00862743 | 0.07333835 |
| Soat1 | 0.40075894 | 5.47047829 | 8.48275412 | 0.00863725 | 0.07333835 |
| Tet3 | 0.49282925 | 6.03705093 | 8.48190095 | 0.00864008 | 0.07333835 |
| Histh1a | -3.6134013 | -1.2556486 | 8.47506982 | 0.00866272 | 0.07334732 |
| A130077B15 | 0.88692832 | 7.65489008 | 8.47494646 | 0.00866313 | 0.07334732 |
| 2810408A11 | 2.63603323 | -0.898105 | 8.4731339 | 0.00866915 | 0.07334732 |
| Tmem218 | -0.7272422 | 3.03925079 | 8.47192689 | 0.00867316 | 0.07334732 |
| Mnat1 | -0.5661636 | 4.19867211 | 8.47030011 | 0.00867857 | 0.07334732 |
| Crim1 | 0.52496345 | 6.98334758 | 8.46054076 | 0.00871111 | 0.07355881 |
| Gene  | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   |
|-------|-----------|-----------|-----------|-----------|-----------|
| Cldn1 | 1.60440749| 3.08447347| 8.45719861| 0.00872228| 0.07358637|
| Eif1a | -0.4857793| 6.62350168| 8.45507272| 0.0087294 | 0.07358637|
| Pcdh17| 0.58757043| 4.75954171| 8.45036708| 0.00874517| 0.07363638|
| Olfr692| 4.9408323 | -1.3157961| 8.44611325| 0.00875945| 0.07363638|
| Whsc1l1| 0.3229294 | 7.71998622| 8.43799409| 0.00878679| 0.07363638|
| Uqcrfs1| -0.3209133| 6.5995679 | 8.43755729| 0.00878827| 0.07363638|
| Kmt2a | 0.55042799| 8.41968347| 8.43583256| 0.00879409| 0.07363638|
| Lrp12 | 0.46341949| 4.10002591| 8.43455637| 0.00879843| 0.07363638|
| Tnnc1 | -1.1707012| 1.94600666| 8.43069585| 0.00881145| 0.07363638|
| Ephb3 | 1.11177233| 1.63705225| 8.43067186| 0.00881153| 0.07363638|
| Wdr45b| -0.5055965 | 4.47916037| 8.4302078 | 0.00881311| 0.07363638|
| Gm3002| 0.96561538| 3.60229734| 8.42788444| 0.00882097| 0.07363638|
| Nup93 | 0.69565232| 4.53506346| 8.42667479| 0.00882506| 0.07363638|
| Gcn11 | 0.65282982| 4.54736474| 8.42653443| 0.00882554| 0.07363638|
| Ube2s | -0.7244766 | 3.69044708| 8.41703178| 0.00885782| 0.07381552|
| Dnajb3| -2.4468769 | -0.1025041| 8.40849832| 0.00886911| 0.07381552|
| Gpr162 | 1.25542182| 2.14572844| 8.40612049| 0.00889504| 0.07381552|
| Gm14327| 1.09846768| 2.97504976| 8.40489702| 0.00889222| 0.07381552|
| Smok4a| 1.37892043| 1.7706538 | 8.4006587 | 0.00891373| 0.07381552|
| Zfp260| -0.3492839 | 7.24177903| 8.39954414| 0.00891756| 0.07381552|
| Zfp40 | 0.54056102| 4.31869583| 8.39676066| 0.00892711| 0.07381552|
| Plxna4 | 0.55547764| 7.02214531| 8.39654441| 0.00892785| 0.07381552|
| Wdfy3 | 0.76925875| 7.86625625| 8.39621982| 0.00892896| 0.07381552|
| Sox6  | 0.6341815 | 5.00814424| 8.39424454| 0.00893575| 0.07381552|
| Tbc1d25| -0.7150374| 3.07336258| 8.39399671| 0.00893663| 0.07381552|
| Neurod6| -0.5066599 | 6.14249421| 8.39375263| 0.00893744| 0.07381552|
| Nhsp  | -0.8165506 | 3.21327063| 8.37771837| 0.00899275| 0.07396422|
| Hcn2  | 1.09264977| 1.3127917 | 8.37734265| 0.00899405| 0.07396422|
| Tmcc2 | 0.49352488| 4.78003844| 8.37609715| 0.00899832| 0.07396422|
| Ttc17 | 0.46796169| 4.84486367| 8.37536417| 0.0090009 | 0.07396422|
| Rptor | 0.4713696 | 5.34640575| 8.37468526| 0.00900325| 0.07396422|
| Ahhrr | 4.42241634| -1.6587342 | 8.3735711 | 0.00900711| 0.07396422|
| Ralgapa2 | 0.69950503| 4.62057579| 8.37187253| 0.00901301| 0.07396422|
| Rdh12 | 1.89387591| 0.1413352 | 8.36864817| 0.00902424| 0.07396422|
| Bzrap1 | 1.01474467| 4.8099904 | 8.36759503| 0.00902786| 0.07396422|
| Clcn2 | 0.58581789| 3.90367884| 8.36670619| 0.00903095| 0.07396422|
| Recql5 | -0.9651086 | 2.43642197| 8.36190452| 0.00904767| 0.07398987|
| Mrfap1 | -0.514784 | 9.51155094 | 8.36146747 | 0.00904919 | 0.07398987|
| Nalcn | 0.45664501| 6.39924881| 8.35391759| 0.00907555| 0.07414349|
| Kcnj10 | 0.51066814| 5.29891954| 8.34284818| 0.00911435| 0.07439842|
| Atp5g3 | -0.413872 | 8.20651786| 8.33821117| 0.00913066| 0.07446947|
| Cnbp  | -0.4347523 | 9.17261251| 8.33434327| 0.00914429| 0.07451701|
| Gng2  | -0.2909489 | 7.99385618| 8.33224189| 0.0091517 | 0.07451701|
| Gene    | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ovgp1   | 1.79278493 | 0.34036295 | 8.32985253 | 0.00916014 | 0.07452377 |
| Sptssb  | -0.7146485 | 4.63872135 | 8.32445774 | 0.00917922 | 0.07456353 |
| Stxbp2  | 0.74536996 | 4.19154777 | 8.32416733 | 0.00918025 | 0.07456353 |
| Babam1  | -0.4831551 | 4.48843025 | 8.31866748 | 0.00919975 | 0.07461949 |
| Dgki    | 0.67762839 | 4.88385758 | 8.31792863 | 0.00920238 | 0.07461949 |
| Ath1    | -0.7239589 | 3.28005213 | 8.31366879 | 0.00921752 | 0.07468045 |
| Pitpnm2 | 0.49888458 | 6.50109081 | 8.30930444 | 0.00923306 | 0.07474455 |
| Nme1    | -0.3889674 | 6.28486745 | 8.30013174 | 0.00926582 | 0.07494783 |
| Adams1l | 0.67211499 | 3.07913631 | 8.2966771 | 0.00927819 | 0.07498598 |
| Kif15   | 1.47380741 | 1.06210072 | 8.28444489 | 0.00932215 | 0.07527912 |
| Galk2   | -0.6075159 | 3.52257411 | 8.27239983 | 0.00936566 | 0.07556819 |
| Net1    | -0.4085595 | 5.59464004 | 8.26748852 | 0.00938347 | 0.0755974 |
| Cacna2d1| 0.53142585 | 7.62950505 | 8.26714435 | 0.00938472 | 0.0755974 |
| St6galnc5 | 0.49501117 | 4.74676532 | 8.26158632 | 0.00940492 | 0.07560263 |
| Gm5069  | -0.4861659 | 4.42178415 | 8.26034172 | 0.00940945 | 0.07560263 |
| Ttc9b   | -0.8154954 | 3.14900253 | 8.259878 | 0.00941113 | 0.07560263 |
| Cdc42   | -0.335427 | 8.71371659 | 8.25642208 | 0.00942373 | 0.07560263 |
| D930016d06 | 0.77931822 | 4.25689725 | 8.2554617 | 0.00942723 | 0.07560263 |
| Gm1976  | -0.5412429 | 4.49603841 | 8.25210249 | 0.00943949 | 0.07560263 |
| Hs6st2  | 0.64967624 | 4.82029221 | 8.24885419 | 0.00945137 | 0.07560263 |
| Aldh7a1 | -0.4023324 | 4.98129847 | 8.24653249 | 0.00945987 | 0.07560263 |
| Clns1a  | -0.4057885 | 6.19127817 | 8.24611615 | 0.00946139 | 0.07560263 |
| 3010026009 | -0.8123356 | 3.29919568 | 8.24343887 | 0.00947121 | 0.07560263 |
| Cadm1   | 0.55309822 | 6.13708656 | 8.2432058 | 0.00947206 | 0.07560263 |
| Cdk5rap2 | 0.6078038 | 3.57249977 | 8.2376591 | 0.00949243 | 0.07560263 |
| Dnajc16 | 0.73386628 | 3.07893277 | 8.23670831 | 0.00949593 | 0.07560263 |
| Cybrd1  | 0.94104582 | 2.11232125 | 8.23586085 | 0.00949904 | 0.07560263 |
| Hpcal1  | -0.5398519 | 4.60151312 | 8.23389696 | 0.0095063 | 0.07560263 |
| Rab30   | -0.451601 | 4.8877884 | 8.23162988 | 0.00951463 | 0.07560263 |
| Vps13d  | 0.70322235 | 6.62824952 | 8.22473736 | 0.00954007 | 0.07560263 |
| Car13   | -0.6756876 | 7.61595465 | 8.22426008 | 0.00954183 | 0.07560263 |
| D030040b21 | 1.71562886 | -0.4700405 | 8.22405513 | 0.00954259 | 0.07560263 |
| Armc1   | -0.3394014 | 7.59764091 | 8.22365412 | 0.00954407 | 0.07560263 |
| Dimt1   | 0.52774275 | 5.04268064 | 8.22125591 | 0.00955295 | 0.07560263 |
| Rap1gds1 | -0.2853163 | 8.5849631 | 8.22065744 | 0.00955517 | 0.07560263 |
| Nbas    | 0.56707029 | 5.07413997 | 8.2093407 | 0.00959718 | 0.07581494 |
| Mtor    | 0.6219363 | 6.58603647 | 8.20743854 | 0.00960426 | 0.07581494 |
| Commd6  | -0.6138534 | 5.30398125 | 8.20718191 | 0.00960522 | 0.07581494 |
| Cd6     | -2.9335858 | -0.0356959 | 8.20204715 | 0.00962437 | 0.07588819 |
| Coa6    | -0.5228107 | 3.73919613 | 8.200541 | 0.00962999 | 0.07588819 |
| Popdc2  | -1.9123736 | 0.81035692 | 8.19175278 | 0.00966289 | 0.07604475 |
| Trub1   | 0.44523971 | 4.67288102 | 8.19019466 | 0.0096873 | 0.07604475 |
| Lsm3    | -0.5667303 | 4.10836897 | 8.18901798 | 0.00967315 | 0.07604475 |
| Gene    | Log2 Fold Change | q-value   | p-value   |
|---------|-----------------|-----------|-----------|
| Atrn    | 0.45271652      | 0.0069067 | 0.0761213 |
| Lrp3    | 0.54963089      | 0.0096989 | 0.0761249 |
| Npc1    | 0.4761572       | 0.0097418 | 0.0763093 |
| Srp9    | -0.49067889     | 0.0097442 | 0.0763093 |
| Gm16712 | -5.546842       | 0.0097452 | 0.0763093 |
| Gm5148  | -0.6380878      | 0.0097855 | 0.0764796 |
| Cox7b   | -0.49693089     | 0.0097989 | 0.0764796 |
| Fryl    | 0.48974779      | 0.0097992 | 0.0764796 |
| Zfand5  | -3.2445495      | 0.0098246 | 0.0764796 |
| Ranbp2  | 0.54432222      | 0.0098237 | 0.0764796 |
| 4930431F12 | 1.0800688   | 0.0098423 | 0.0764796 |
| S1ca6a  | 1.20108898      | 0.0098330 | 0.0764796 |
| Fat3    | 0.81609341      | 0.0098423 | 0.0764796 |
| Becn1   | -0.5354056      | 0.0098455 | 0.0764796 |
| Vvf     | -1.0524908      | 0.0100166 | 0.0772008 |
| Gpr88   | 0.49431762      | 0.0100345 | 0.0772733 |
| Pink1   | -0.2990234      | 0.0100944 | 0.0775714 |
| Dmd     | 0.66253237      | 0.0100611 | 0.0775734 |
| Irs4    | 1.12922886      | 0.0100944 | 0.0775714 |
| Ube2e2  | -0.366756       | 0.0100944 | 0.0775714 |
| Fam185a | -0.5641794      | 0.0101102 | 0.0775714 |
| Acb4d   | 0.86364129      | 0.0101128 | 0.0775714 |
| Zdhhc1  | 0.65727934      | 0.0101128 | 0.0775714 |
| D pysl5 | 0.71404352      | 0.0101128 | 0.0775714 |
| Krt19   | 1.12391716      | 0.0101128 | 0.0775714 |
| S nrbp2 | -0.4708938      | 0.0101128 | 0.0775714 |
| Shoc2   | -0.3344497      | 0.0101128 | 0.0775714 |
| Smim18  | -0.9676425      | 0.0101128 | 0.0775714 |
| Plagl2  | -0.5232449      | 0.0101128 | 0.0775714 |
| Nbea    | 0.7717765       | 0.0101128 | 0.0775714 |
| S nrbp  | -0.5156315      | 0.0101128 | 0.0775714 |
| Lrrfip2 | -0.3582617      | 0.0101128 | 0.0775714 |
| Zfp831  | 0.78716249      | 0.0101128 | 0.0775714 |
| 3110045C21 | -3.1703318    | 0.0101128 | 0.0775714 |
| Sirt4   | 1.01603704      | 0.0101128 | 0.0775714 |
| Gad2    | 0.57242921      | 0.0101128 | 0.0775714 |
| Eiff4ebp3 | 1.31442931   | 0.0101128 | 0.0775714 |
| Fbxw8   | -0.484327      | 0.0101128 | 0.0775714 |
| Retnlg  | -5.0174895      | 0.0101128 | 0.0775714 |
| Fam135b | 0.87236015      | 0.0101128 | 0.0775714 |
| Hcfc1r1 | -0.5677826      | 0.0101128 | 0.0775714 |
| Rab3ip  | -0.4301728      | 0.0101128 | 0.0775714 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  |
|--------|---------|---------|---------|---------|---------|
| Igf21  | 0.75482883 | 3.61207176 | 8.04161788 | 0.01024468 | 0.07775168 |
| Acot7  | -0.4030182 | 6.14942926 | 8.04092047 | 0.01024747 | 0.07775168 |
| Nduc  | -0.4998433 | 5.63005536 | 8.03851016 | 0.01025713 | 0.07776471 |
| Rpl4   | -0.4165756 | 8.80304344 | 8.03386006 | 0.01027579 | 0.07781068 |
| Ryr2   | 0.89127577 | 8.03232556 | 8.03304077 | 0.01027908 | 0.07781068 |
| Rab3gap2 | 0.58022841 | 6.46892476 | 8.03044827 | 0.0102895 | 0.07782943 |
| Ppp2cb | -0.3139998 | 7.09415398 | 8.0279972 | 0.01029937 | 0.07784394 |
| Pdk4   | 0.751324 | 2.80876838 | 8.02179754 | 0.01032437 | 0.07790338 |
| 2010107E04I | -0.4844638 | 5.84260277 | 8.01961019 | 0.0103332 | 0.07790338 |
| Exd1   | -2.1245393 | -0.3507734 | 8.01928535 | 0.01033452 | 0.0779038 |
| Azin1  | -0.3198036 | 7.21388816 | 8.01754172 | 0.01034157 | 0.0779038 |
| Scn4b  | 0.60836226 | 4.78443793 | 8.01619972 | 0.010347 | 0.0779038 |
| Nphs1  | 0.93680739 | 2.0604557 | 8.01236526 | 0.01036253 | 0.07796041 |
| Tsrl   | -0.4290572 | 4.95762152 | 8.00790034 | 0.01038065 | 0.07799645 |
| Cnih3  | -0.4284879 | 5.92678748 | 8.00726169 | 0.01038325 | 0.07799645 |
| Ccdc171 | 0.66658624 | 3.20507222 | 8.00107882 | 0.01040841 | 0.07809094 |
| BC002163 | -0.4942662 | 3.58141497 | 8.00025321 | 0.01041177 | 0.07809094 |
| Gsst3  | -0.6361764 | 5.20221588 | 7.99824358 | 0.01041996 | 0.07809261 |
| Pgr15l | 2.63778967 | 0.38897474 | 7.9924572 | 0.0104436 | 0.07812664 |
| Wdr54  | -0.7473758 | 3.28234784 | 7.99158718 | 0.01044716 | 0.07812664 |
| Rutf1  | 0.46540684 | 4.69976452 | 7.9912759 | 0.01044843 | 0.07812664 |
| Trh    | 4.23765517 | -1.6101563 | 7.98798663 | 0.0104619 | 0.07816769 |
| Ada    | -1.1273284 | 1.31544401 | 7.97924948 | 0.01049778 | 0.07818625 |
| Plag4a | -0.5302285 | 4.59834427 | 7.97859502 | 0.01050047 | 0.07818625 |
| Mrpl48 | -0.4967872 | 4.45737419 | 7.97750514 | 0.01050495 | 0.07818625 |
| Dazl   | 1.21327977 | 1.50788797 | 7.97661072 | 0.01050864 | 0.07818625 |
| Igf2bp3 | 0.67515877 | 4.2010688 | 7.97390763 | 0.01051978 | 0.07818625 |
| Pfna   | -0.3508517 | 7.71573022 | 7.97294502 | 0.01052375 | 0.07818625 |
| Mir3064 | 2.01334649 | -0.6415369 | 7.97115523 | 0.01053113 | 0.07818625 |
| Myof   | -0.7233282 | 5.02471238 | 7.97002819 | 0.01053579 | 0.07818625 |
| B3gnt9 | -1.118781 | 1.80988225 | 7.96992201 | 0.01053622 | 0.07818625 |
| Skp1a  | -0.4022051 | 8.04762672 | 7.96552688 | 0.0105544 | 0.07820916 |
| Tnfaip8I1 | -0.9126077 | 2.81437686 | 7.96339519 | 0.01056322 | 0.07820916 |
| Ppef2  | 2.99879117 | -0.8436793 | 7.96087961 | 0.01057365 | 0.07820916 |
| Lrp1   | 0.37343147 | 7.3421971 | 7.96054087 | 0.01057505 | 0.07820916 |
| Fut8   | 0.56897392 | 6.99074698 | 7.95877661 | 0.01058237 | 0.07820916 |
| 5930412G12 | -1.6534937 | 0.82290441 | 7.95704257 | 0.01058957 | 0.07820916 |
| Chd3os | -0.3044937 | 6.56164557 | 7.95568762 | 0.0105952 | 0.07820916 |
| Ahctf1 | 0.46343816 | 6.60380263 | 7.9487205 | 0.01062421 | 0.07828011 |
| Cript  | -0.4627458 | 7.53137225 | 7.94735779 | 0.01062989 | 0.07828011 |
| Bbs10  | 0.74938372 | 2.99343135 | 7.94690512 | 0.01063178 | 0.07828011 |
| Zfp488 | 0.85703072 | 7.72018288 | 7.94428483 | 0.01064272 | 0.07828011 |
| Arntl  | 0.48663904 | 3.98379063 | 7.94134003 | 0.01065502 | 0.07828011 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| Usp25  | -0.3368753 | 7.47059909 | 7.94119726 | 0.01065562 | 0.07828011 |
| Lmtk2  | 0.45213448 | 6.76082334 | 7.93997003 | 0.01066076 | 0.07828011 |
| Abca17 | 3.18928127 | -0.2030973 | 7.93673702 | 0.0106743 | 0.07828991 |
| Ano2   | 2.09865554 | 0.14009161 | 7.93532543 | 0.01068021 | 0.07828991 |
| Pgbd5  | -0.3719837 | 7.53473833 | 7.93392996 | 0.01068607 | 0.07828991 |
| Trmu   | 1.09975364 | 2.08059847 | 7.92872512 | 0.01070793 | 0.07832096 |
| Arpc2  | -0.390843   | 8.49607501 | 7.92771343 | 0.01071219 | 0.07832096 |
| Dpm2   | -0.4963022 | 4.06808179 | 7.92721321 | 0.01071429 | 0.07832096 |
| A1837181| -0.5314687 | 4.19362542 | 7.92338009 | 0.01073044 | 0.07833059 |
| Ldoc1  | -3.4249175 | -1.3494484 | 7.92310356 | 0.0107316  | 0.07833059 |
| Atf2   | -0.292563  | 8.8748874  | 7.92013177 | 0.01074414 | 0.07836371 |
| 9030204H09| 2.89734796 | -1.183812 | 7.90916903 | 0.01079053 | 0.07860938 |
| Mybpc1 | 1.44351658 | 0.97446557 | 7.90821667 | 0.01079457 | 0.07860938 |
| 1810037I17R| 0.5833953  | 5.63404425 | 7.90454178 | 0.01081018 | 0.07860938 |
| Nr1h2  | -0.72131011| 4.09397517 | 7.90449407 | 0.01081039 | 0.07860938 |
| 2900097C17I| 0.5009826 | 10.8249655 | 7.9027149 | 0.01081795 | 0.07860938 |
| Lyplal1| -0.7709459 | 2.81065316 | 7.89356584 | 0.01085695 | 0.07863997 |
| Naipl6 | 3.86547143 | -2.0934829 | 7.89281887 | 0.01086014 | 0.07863997 |
| Tatdn3 | 0.68462607 | 2.52536768 | 7.89263968 | 0.01086091 | 0.07863997 |
| Gnptab | 0.46054904 | 6.15644286 | 7.88775035 | 0.01088182 | 0.07863997 |
| Psme4  | 0.51047928 | 6.43544393 | 7.88683456 | 0.01088574 | 0.07863997 |
| Uch1   | -0.4196089 | 6.11240315 | 7.88538452 | 0.01089196 | 0.07863997 |
| Six3   | -0.7253063 | 3.04223827 | 7.884499  | 0.01089575 | 0.07863997 |
| Sf3b5  | -0.7292618  | 3.86018362 | 7.8828973 | 0.01090262 | 0.07863997 |
| Lcmt1  | -0.4826215 | 4.85914656 | 7.88241807 | 0.01090468 | 0.07863997 |
| Xlr    | 1.57311139 | 0.44675069 | 7.88182175 | 0.01090724 | 0.07863997 |
| Zfp563 | 0.48759713  | 4.894565  | 7.88106918 | 0.01091047 | 0.07863997 |
| Tmem143| -0.8829368 | 2.62157586 | 7.86616391 | 0.01097469 | 0.07903823 |
| Vegfa  | 0.43602896 | 5.38698117 | 7.86450614 | 0.01098186 | 0.07903823 |
| Catip  | 0.90540009 | 2.46427014 | 7.85261838 | 0.01103343 | 0.07935102 |
| Prdm9  | 0.98874632 | 1.62547008 | 7.84918843 | 0.01104835 | 0.07938691 |
| Rin1   | 0.67065253 | 3.80022868 | 7.84573914 | 0.01106339 | 0.07938691 |
| Smim14 | -0.5701446 | 7.54290449 | 7.84477794 | 0.01106758 | 0.07938691 |
| Med16  | 0.42664758 | 5.29758617 | 7.84344947 | 0.01107338 | 0.07938691 |
| Kcnq1ot1| 1.07587611 | 8.05882548 | 7.8412593 | 0.01108295 | 0.07938691 |
| Meio1  | 3.67267919 | -0.9393233 | 7.83865577 | 0.01109433 | 0.07938691 |
| H13    | 0.57788483 | 4.82160613 | 7.8384695  | 0.01109515 | 0.07938691 |
| Pisd   | 0.4783799  | 4.45308824 | 7.83331325 | 0.01111774 | 0.0794519 |
| Asic3  | 5.93128187 | -2.0363089 | 8.12169623 | 0.01112045 | 0.0794519 |
| Ctcfl  | 0.97300199 | 3.10142924 | 7.82686821 | 0.01114604 | 0.0795767 |
| Bsn    | 0.73516998 | 9.30856583 | 7.82414081 | 0.01115805 | 0.07960438 |
| Sdad1  | 0.39097513 | 4.79160737 | 7.81838807 | 0.01118341 | 0.07967222 |
| Themis | -1.8563495 | 0.53572388 | 7.81508501 | 0.01119801 | 0.07967222 |
| Gene      | Value  |
|-----------|--------|
| A230001M10 | 1.66384797 |
| Zcrb1     | -0.3690123 |
| Mei1      | 1.30265002 |
| Eapp      | -0.4295953  |
| Zfp157    | 0.4649648  |
| Nhlrc1    | -0.5299412 |
| Fam111a   | -0.6021135 |
| Cops7a    | -0.4748423 |
| Trim33    | 0.29697863 |
| Rcan2     | -0.2857788 |
| Flrt1     | 0.35764317 |
| Ppp1r16b  | 0.48139631 |
| Pcdhac2   | 0.58392811 |
| Hfm1      | 1.32833832 |
| Pgap3     | -2.4352341 |
| Gramd3    | -0.50708908 |
| C230091D08 | 0.51984256 |
| Atp2a3    | 1.30011571 |
| Tmem132d  | 0.66265169 |
| Lmbrd1    | 0.32673687 |
| Phlp1     | 0.4183648  |
| Snhg8     | -0.7762259 |
| Ank3      | 0.72943753 |
| Cnga4     | -1.9603233 |
| Adrbk2    | 0.50811726 |
| Rprd2     | 0.39812823 |
| Actr1b    | -0.4231811 |
| Rbms1     | -0.4093592 |
| Nrg2      | -2.5219938 |
| Paics     | -0.4708906 |
| 1500015L24f | 3.12170915 |
| Rian      | 0.71759455 |
| Suv39h1   | -0.7186566 |
| Atp5o     | -0.5240216 |
| Tmem261   | -0.5434961 |
| C7370     | 0.77520505 |
| A230056J06f | -2.9458002 |
| 4932413F04l | 1.94185058 |
| Nudt8     | -1.6935122 |
| Mdm2      | -0.298636  |
| Trerf1    | 0.55174257 |
| Chid1     | 0.54662591 |
| Gadd45gip1 | -0.8568806 |
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Mrps26  | -0.5087552 | 3.85237009 | 7.68273116 | 0.01180064 | 0.08145419 |
| Enpep   | 1.03748752 | 1.97642137 | 7.68112514 | 0.01180817 | 0.08145419 |
| Dcn1d5  | -0.3902208 | 5.95831292 | 7.66842876 | 0.01186799 | 0.08180861 |
| Nf1     | 0.53186335 | 8.07663234 | 7.66533398 | 0.01188251 | 0.08184354 |
| Myl4    | -1.115161 | 2.24549213 | 7.66381758 | 0.01189868 | 0.08184354 |
| Nav1    | 0.61031816 | 7.3625303 | 7.65699838 | 0.01192196 | 0.08200816 |
| Pcdh10  | 0.46602904 | 7.10637105 | 7.65368842 | 0.01193767 | 0.08205857 |
| Srrt    | 0.48413509 | 4.88344828 | 7.6498489 | 0.01195249 | 0.08212638 |
| Eml5    | 0.83579204 | 5.85855028 | 7.6465680 | 0.01197154 | 0.082127 |
| Hsfbp1  | -0.4548998 | 8.97240026 | 7.64630764 | 0.01197278 | 0.082127 |
| Zfp280b | 0.45881531 | 4.892302 | 7.64407298 | 0.01198343 | 0.08214255 |
| Thns1l  | -0.6410497 | 3.96352648 | 7.64057181 | 0.01200014 | 0.08219957 |
| Stat2   | 0.43058695 | 4.68576171 | 7.635231 | 0.01202568 | 0.08231094 |
| Ccl19   | -0.73521246 | 3.93998028 | 7.63264284 | 0.01203808 | 0.08231094 |
| Pnrc1   | -0.3738026 | 7.15483839 | 7.62965395 | 0.01205242 | 0.08231094 |
| Dlx57   | 0.69848821 | 5.85111194 | 7.62908666 | 0.01205513 | 0.08231094 |
| Pou2f2  | 0.85290507 | 3.6192154 | 7.62708912 | 0.01206474 | 0.08231094 |
| Pebp1   | -0.4624288 | 8.27988098 | 7.62605908 | 0.01206969 | 0.08231094 |
| Ddhd2   | 0.35582901 | 6.00364545 | 7.62490844 | 0.01207522 | 0.08231094 |
| Pcdhb18 | 0.68126187 | 4.15419096 | 7.62021383 | 0.01209774 | 0.08235542 |
| Melt15  | -1.0763548 | 1.63250249 | 7.62006134 | 0.01209856 | 0.08235542 |
| Haus8   | -1.2744448 | 1.04829652 | 7.61180571 | 0.01213843 | 0.08256943 |
| Zfp804b | 0.89881347 | 2.52131327 | 7.60680317 | 0.01216265 | 0.0826292 |
| Nf2     | -0.3981054 | 6.09246586 | 7.60627054 | 0.01216524 | 0.0826292 |
| Numa1   | 0.31752941 | 5.77399352 | 7.60477006 | 0.01217252 | 0.0826292 |
| Mrpl36  | -0.5815449 | 5.37409144 | 7.6027542 | 0.01218231 | 0.08263703 |
| 2310010J17F | -1.3737458 | 0.76878002 | 7.59942961 | 0.01219847 | 0.08263703 |
| Ptprc   | 1.07061094 | 1.9383955 | 7.59928646 | 0.01219917 | 0.08263703 |
| Rab5c   | -0.3834741 | 6.19290957 | 7.59758331 | 0.01220746 | 0.08263703 |
| Stk39   | -0.4949148 | 7.75126051 | 7.59305556 | 0.01222953 | 0.08263703 |
| S330417C22F | 0.76356684 | 3.85966934 | 7.59263697 | 0.01223157 | 0.08263703 |
| Zmat4   | -0.333987 | 5.6454348 | 7.59239891 | 0.01223273 | 0.08263703 |
| Son     | 0.50758613 | 8.07903712 | 7.58745463 | 0.01225689 | 0.08274315 |
| Hspa12b | -0.7292252 | 3.62175018 | 7.582583 | 0.01228074 | 0.08284708 |
| Smarcd3 | -0.6142242 | 4.1281128 | 7.57969044 | 0.01229493 | 0.0828857 |
| Snap1   | -0.3100637 | 6.28610141 | 7.57560847 | 0.01231498 | 0.08292491 |
| Ppdpf   | -0.4700695 | 5.09338992 | 7.57506058 | 0.01231767 | 0.08292491 |
| Snp1    | -0.7150552 | 3.26961063 | 7.57266154 | 0.01232948 | 0.08294737 |
| Zbb39   | -0.4720868 | 4.42513232 | 7.56977275 | 0.01234371 | 0.08297484 |
| 2700054A10 | 0.74127825 | 2.52735864 | 7.56743573 | 0.01235524 | 0.08297484 |
| Rhpn1   | -1.136166 | 0.76521571 | 7.56651685 | 0.01235977 | 0.08297484 |
| Nlrc4   | 4.33414097 | -1.284615 | 7.56050427 | 0.0123895 | 0.08297484 |
| Uqcrq   | -0.466277 | 4.16383216 | 7.56050422 | 0.0123895 | 0.08297484 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|--------|---------|---------|---------|---------|---------|---------|
| N4bp2l1| 0.59280142 | 4.03004279 | 7.56043334 | 0.01238985 | 0.08297484 |
| Tpm3   | -0.3583143 | 7.43066738 | 7.5589893 | 0.012397 | 0.08297484 |
| Celsr2 | 0.44364752 | 7.16649663 | 7.55658874 | 0.0124089 | 0.08297484 |
| Ntrk2  | 0.52659832 | 8.36611345 | 7.55640689 | 0.0124098 | 0.08297484 |
| Vash1  | 0.66573035 | 3.42591804 | 7.5508837 | 0.01243722 | 0.08310148 |
| Zfp277 | 0.70290313 | 6.31918205 | 7.54641745 | 0.01245945 | 0.08317906 |
| C030023E24 | 1.22990283 | 2.42704436 | 7.54088343 | 0.01248705 | 0.08317906 |
| Mylk4  | 1.27427466 | 1.16968029 | 7.54068654 | 0.01248804 | 0.08317906 |
| Nrg3   | 0.38293764 | 6.24416023 | 7.53897556 | 0.01249658 | 0.08317906 |
| Lysmd4 | -0.5858045 | 3.30306928 | 7.53687208 | 0.0125071 | 0.08317906 |
| Mrps12 | -0.7337715 | 3.59818794 | 7.53656962 | 0.01250862 | 0.08317906 |
| 4931403G20 | 1.45634815 | 0.89301541 | 7.53639523 | 0.01250949 | 0.08317906 |
| Upsp19 | 0.45354502 | 4.75843147 | 7.53494071 | 0.01251677 | 0.08317906 |
| Hdgf   | -0.435627 | 6.54387813 | 7.51423948 | 0.0126209 | 0.08378576 |
| Dnase12 | 2.61371981 | -0.4876255 | 7.51339505 | 0.01262517 | 0.08378576 |
| Pcdhga7 | 0.77690664 | 2.71389991 | 7.51156526 | 0.01263443 | 0.08379041 |
| Bzw1   | -0.4851639 | 8.32615048 | 7.50890434 | 0.0126479 | 0.08379797 |
| Pdpr   | 0.62465134 | 3.89356158 | 7.50796141 | 0.01265268 | 0.08379797 |
| 4930486F22 | 3.72917589 | -1.2626018 | 7.50268837 | 0.01267943 | 0.08391152 |
| Spag5  | 1.37467505 | 1.90163562 | 7.50120784 | 0.01268695 | 0.08391152 |
| Dynch21 | 0.85497423 | 6.15787971 | 7.49881541 | 0.01269912 | 0.08393533 |
| Dennd1b | 0.46838512 | 4.59060003 | 7.49546673 | 0.01271618 | 0.08399137 |
| Magee2 | 0.53502318 | 4.78781903 | 7.48888082 | 0.01274979 | 0.08411917 |
| Brox   | -0.3328607 | 5.69031614 | 7.48831136 | 0.0127527 | 0.08411917 |
| 9130008F23 | -2.2783691 | -0.5012529 | 7.48518737 | 0.01276868 | 0.08416792 |
| Casd1  | 0.41865689 | 5.80115426 | 7.46883388 | 0.01285272 | 0.08463399 |
| Nbeal2 | 0.81947924 | 1.80362844 | 7.46705453 | 0.0128619 | 0.08463399 |
| Fam169b | 0.96200391 | 1.94048087 | 7.46150187 | 0.0128906 | 0.08463399 |
| Mycbp2 | 0.71567144 | 8.84042078 | 7.4612341 | 0.01289198 | 0.08463399 |
| Dact1  | -0.5525364 | 6.05623153 | 7.45983815 | 0.01289921 | 0.08463399 |
| Capn11 | -3.2619302 | 0.03771976 | 7.45973346 | 0.01289975 | 0.08463399 |
| Cenpc1 | 0.41690806 | 5.59738244 | 7.45810894 | 0.01290817 | 0.08463399 |
| Vgl14  | -0.8582694 | 2.97093093 | 7.455061 | 0.01292398 | 0.08463399 |
| Synm   | 0.47015865 | 5.50732263 | 7.45004958 | 0.01295001 | 0.08463399 |
| Zfp236 | 0.50725326 | 5.532951 | 7.44829171 | 0.01295916 | 0.08463399 |
| Plcd4  | 0.79467512 | 2.1931038 | 7.44566799 | 0.01297283 | 0.08463399 |
| Strip2 | 0.80557686 | 5.1919143 | 7.44556676 | 0.01297335 | 0.08463399 |
| Errf1  | -0.3473227 | 6.88726728 | 7.44475952 | 0.01297756 | 0.08463399 |
| Gm2061 | -1.2278823 | 1.29447359 | 7.44278062 | 0.01298788 | 0.08463399 |
| Chek2  | -0.9814711 | 2.34680415 | 7.44034529 | 0.0130006 | 0.08463399 |
| Hrasls | -0.4696653 | 5.07368425 | 7.43816399 | 0.013012 | 0.08463399 |
| Orc4   | 0.37081583 | 5.58400376 | 7.43753536 | 0.01301529 | 0.08463399 |
| Dph3   | -0.3794953 | 5.71694722 | 7.43574313 | 0.01302467 | 0.08463399 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| Pnpt1  | 0.70157579 | 3.92011407 | 7.43513327 | 0.01302786 | 0.08463399 |
| Mrpl23 | -0.6173255 | 3.13313811 | 7.43500548 | 0.01302853 | 0.08463399 |
| Hrct1  | -4.8992731 | -2.1066727 | 7.43429064 | 0.01303227 | 0.08463399 |
| Vps39  | 0.35902739 | 5.87363614 | 7.43382465 | 0.01303471 | 0.08463399 |
| Tmem173| -1.0251922 | 1.61094865 | 7.43317545 | 0.01303811 | 0.08463399 |
| Rps15a | -0.3483598 | 7.20599227 | 7.42952763 | 0.01305725 | 0.08470207 |
| 2410021H03| 2.06978528 | 0.56287823 | 7.4224968 | 0.01309422 | 0.08473212 |
| Ero1l  | 0.36457283 | 6.37695427 | 7.41965437 | 0.01310919 | 0.08473212 |
| Smim15 | -0.3634915 | 6.1523121 | 7.41854711 | 0.01311503 | 0.08473212 |
| 9330179D12| -1.454105 | 1.07492761 | 7.41747148 | 0.01312071 | 0.08473212 |
| Nosip  | -0.4806042 | 4.60528241 | 7.4168938 | 0.01312376 | 0.08473212 |
| Pcsk2os1| 0.74481434 | 3.00792967 | 7.41539471 | 0.01313168 | 0.08473212 |
| Arl5b  | 0.59608663 | 4.18578629 | 7.41456723 | 0.01313605 | 0.08473212 |
| 1110002L01f| -1.2299824 | 1.11753927 | 7.414053  | 0.01313877 | 0.08473212 |
| F8     | 0.58791631 | 3.0977305 | 7.41245681 | 0.01314721 | 0.08473212 |
| Map2   | 0.58283359 | 8.3176101 | 7.41223421 | 0.01314838 | 0.08473212 |
| Nlgn3  | 0.43901075 | 5.98583432 | 7.4094881 | 0.01316313 | 0.08477138 |
| Cdkn3  | -2.6737855 | -0.6948635 | 7.40157727 | 0.0132049 | 0.08498451 |
| Skida  | -0.6178662 | 4.1254437 | 7.39545703 | 0.01323748 | 0.08509343 |
| Mrpl34 | -0.81753 | 3.32687172 | 7.39513477 | 0.0132392 | 0.08509343 |
| Vps9d1 | 0.53918171 | 3.70412847 | 7.39243615 | 0.0132536 | 0.0851301 |
| Dmxi2  | 0.71035464 | 8.52492844 | 7.38937398 | 0.01326995 | 0.08514541 |
| Prcp   | -0.560792 | 3.71054934 | 7.38873594 | 0.01327336 | 0.08514541 |
| Gtse1  | 2.6976588 | -1.4834709 | 7.3788164 | 0.01332652 | 0.08543045 |
| Rtf1   | -0.2924339 | 8.31775041 | 7.37398779 | 0.01335248 | 0.08554089 |
| Loxl3  | 1.00800052 | 1.77272486 | 7.37028847 | 0.01337241 | 0.08561257 |
| Chac1  | 0.87987603 | 1.81672077 | 7.3668797 | 0.0133908 | 0.08567432 |
| Slc39a6| 0.32225269 | 6.58109972 | 7.3610676 | 0.01342223 | 0.08581933 |
| Dynlrb1| -0.4493026 | 8.41788242 | 7.35811281 | 0.01343824 | 0.08586563 |
| Preb   | -0.5256609 | 5.17850217 | 7.35510946 | 0.01345453 | 0.08591369 |
| Sez6l  | 0.40957238 | 6.13618277 | 7.34123011 | 0.01353011 | 0.08625668 |
| Tpm1   | -0.4221961 | 9.356263 | 7.34075176 | 0.01353272 | 0.08625668 |
| Pcdhb8 | 1.2782771 | 1.09888164 | 7.34021043 | 0.01353568 | 0.08625668 |
| Coq4   | -0.501308 | 3.84372595 | 7.33878632 | 0.01354347 | 0.08625668 |
| Arpc5l | -0.4449111 | 5.82331496 | 7.33567852 | 0.01356047 | 0.08630889 |
| Eci1   | -0.5366182 | 3.68755631 | 7.33264035 | 0.01357712 | 0.08635874 |
| Ttpa   | 1.2400631 | 1.48140709 | 7.32272563 | 0.01363162 | 0.0866185 |
| Gm5441 | 1.99849741 | 0.35213005 | 7.32199405 | 0.01363565 | 0.0866185 |
| Snap25 | -0.3007773 | 14.1167379 | 7.30521281 | 0.01372847 | 0.08715162 |
| Cryl1  | -0.6731397 | 3.57111571 | 7.30233365 | 0.01374447 | 0.08719666 |
| Spata17| -4.2993802 | -1.2522356 | 7.29933293 | 0.01376116 | 0.08724607 |
| 4930519F09l| 0.75231944 | 2.53184829 | 7.29653088 | 0.01377677 | 0.0872712 |
| Ythdc1 | 0.34857326 | 7.24314683 | 7.29141083 | 0.01380534 | 0.0872712 |
| Gene       | Expression Value |
|------------|------------------|
| Rab7       | -0.4006051 10.3187668 7.288749677 0.01382022 0.0872712 |
| Catsperd   | 2.64675474 -0.7666412 7.286455795 0.01383306 0.0872712 |
| Kl         | -0.4441897 5.31075688 7.282744383 0.01385386 0.0872712 |
| Syt13      | -1.1786893 0.95486318 7.282400233 0.01385579 0.0872712 |
| Zswim5     | 0.44963079 4.89871036 7.281222835 0.01386240 0.0872712 |
| Cinp       | -0.5512938 4.26238492 7.279704343 0.01387092 0.0872712 |
| Hipk4      | 0.66684864 3.97058021 7.279325078 0.01387305 0.0872712 |
| Yaf2       | -0.3864528 7.42070674 7.275997917 0.01389176 0.0872712 |
| Mdga2      | 0.47615641 6.06321093 7.273779225 0.01390425 0.0872712 |
| Samd1      | -0.8463701 2.79565482 7.273356063 0.01390663 0.0872712 |
| Cltn2      | 0.50665202 6.26457341 7.272785055 0.01390985 0.0872712 |
| Klc4       | -0.89378435 2.29237103 7.271267911 0.0139184 0.0872712 |
| AU040972   | 1.48778531 1.08626308 7.271142325 0.01391911 0.0872712 |
| Cabp7      | 3.16559089 -1.1968149 7.270771856 0.0139212 0.0872712 |
| Neurl1b    | 0.65467062 4.89012946 7.269904196 0.01392609 0.0872712 |
| Khdc1      | 0.4742564 4.04135567 7.269491088 0.01392842 0.0872712 |
| Atp6v1c1   | -0.2793325 7.31729224 7.268431114 0.01393441 0.0872712 |
| Atp6v1g1   | -0.4755275 6.90417305 7.26596783 0.01394832 0.08730253 |
| Ulk3       | 0.60244586 3.94958032 7.259997725 0.01398211 0.08745813 |
| Cmttm7     | -0.9189424 1.86623402 7.255409075 0.01400768 0.08751697 |
| Fgd4       | 0.44085663 4.93470296 7.254909216 0.01401098 0.08751697 |
| Bpgm       | -0.430401 6.8275735 7.253617599 0.01401832 0.08751697 |
| Fam160a2   | 0.44055238 6.65594544 7.24731543 0.01405419 0.08763276 |
| Plxna3     | 0.97008886 2.16951874 7.247215689 0.01405476 0.08763276 |
| Rpl23a     | -0.4854054 7.25485524 7.239268225 0.01410014 0.0877775 |
| Uqcrh      | -0.5229394 7.05499761 7.238196467 0.01410628 0.0877775 |
| Htr7       | -0.6554436 3.40319101 7.236937955 0.01411348 0.0877775 |
| Crem       | -0.4093073 4.8377127 7.23574356 0.01412032 0.0877775 |
| Tmem69     | 0.47518949 4.43179247 7.23531509 0.01412278 0.0877775 |
| Sgpl1      | 0.58815554 4.29909087 7.23198705 0.01414187 0.08779283 |
| Nhs12      | 0.32324866 8.08117747 7.23058501 0.01414992 0.08779283 |
| Zc3h15     | -0.2755712 7.0509728 7.230199255 0.01415213 0.08779283 |
| Mapkap1    | -0.3245812 6.5705397 7.22308806 0.01419305 0.0879903 |
| Usp50      | 4.16974459 -1.5371428 7.21910862 0.014216 0.08799896 |
| 1810058i24R| -0.6412191 4.48426675 7.21762462 0.01422457 0.08799896 |
| Spata19    | 3.51409618 -2.0523574 7.2109131 0.01426341 0.08799896 |
| Slc35d2    | 1.41510251 0.16421298 7.20941035 0.01427212 0.08799896 |
| Arhgap15   | -0.5567916 3.82737943 7.20849313 0.01427744 0.08799896 |
| Mmab       | -0.4471539 4.42183548 7.20552292 0.01429468 0.08799896 |
| Zbtb6      | 0.37193677 5.09024405 7.20433811 0.01430157 0.08799896 |
| Ttbk1      | 0.63383665 4.05638659 7.20067019 0.01432291 0.08799896 |
| Mrpl30     | -0.4480597 5.69190516 7.1993094 0.01433083 0.08799896 |
| Tma7       | -0.4706904 6.81927028 7.19847151 0.01433571 0.08799896 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Mir8091| 1.98499731 | -0.5753025 | 7.19691606 | 0.01434478 | 0.08799896 | 0.33267849 | 6.87260442 | 7.19689265 | 0.01434492 | 0.08799896 | 2.1843044 | -0.0093493 | 7.19592332 | 0.01435057 | 0.08799896 | -1.0551808 | 1.23374519 | 7.19477169 | 0.01435729 | 0.08799896 | 0.70474206 | 2.97770247 | 7.19432041 | 0.01435993 | 0.08799896 | -0.5450516 | 5.94178596 | 7.19327545 | 0.01436603 | 0.08799896 | 0.32819732 | 6.78989424 | 7.19227901 | 0.01437185 | 0.08799896 | 1.29566643 | 1.08521293 | 7.19088445 | 0.01438001 | 0.08799896 | 0.50628708 | 4.25700485 | 7.19069949 | 0.01438109 | 0.08799896 | 0.68814109 | 6.88983087 | 7.19030025 | 0.01438342 | 0.08799896 | 0.54657165 | 5.32071459 | 7.18889711 | 0.01439163 | 0.08799896 | -4.7947166 | -1.9746755 | 7.43534017 | 0.01439823 | 0.08799896 | -0.4001781 | 6.95960474 | 7.18593241 | 0.01440909 | 0.08799896 | -0.46666689 | 5.51171644 | 7.18178856 | 0.01443331 | 0.08799896 | -1.1017748 | 2.10485348 | 7.17995841 | 0.01444406 | 0.08799896 | -0.477696 | 5.20672535 | 7.179406 | 0.01444731 | 0.08799896 | 0.88959008 | 2.40495326 | 7.17934685 | 0.01444766 | 0.08799896 | 0.65900077 | 3.20968272 | 7.17795575 | 0.01445584 | 0.08799896 | -0.4019952 | 5.513234 | 7.17682253 | 0.01446251 | 0.08799896 | 0.46775015 | 7.19872025 | 7.17659303 | 0.01446386 | 0.08799896 | -0.4921061 | 6.91340087 | 7.17409013 | 0.0144786 | 0.08803397 | 0.46523185 | 6.97294153 | 7.17011807 | 0.01450203 | 0.08806426 | 0.62721895 | 3.29092738 | 7.16986505 | 0.01450352 | 0.08806426 | -0.976951 | 1.95290312 | 7.16818091 | 0.01451347 | 0.08806426 | 0.56599883 | 5.58475126 | 7.16715322 | 0.01451954 | 0.08806426 | -0.7233295 | 2.95254379 | 7.16470311 | 0.01453404 | 0.08807121 | 0.35925831 | 6.81594251 | 7.16299281 | 0.01454416 | 0.08807121 | -0.6591238 | 5.66338597 | 7.1624019 | 0.01454766 | 0.08807121 | 8.51215356 | -2.0314591 | 7.40639285 | 0.01455887 | 0.08808464 | -0.366758 | 7.66623059 | 7.15104971 | 0.01461509 | 0.08822557 | -0.6445326 | 3.5835136 | 7.14698344 | 0.01463933 | 0.08822557 | 0.47280686 | 5.63069025 | 7.14514719 | 0.01465029 | 0.08822557 | -0.3033053 | 7.04645059 | 7.144883056 | 0.01465188 | 0.08822557 | -0.4540509 | 3.77109963 | 7.14420395 | 0.01465592 | 0.08822557 | -0.5258549 | 3.62941797 | 7.14379817 | 0.01465835 | 0.08822557 | 0.6617647 | 3.12267496 | 7.14242624 | 0.01466655 | 0.08822557 | 0.8914576 | 1.52539876 | 7.14159965 | 0.01467149 | 0.08822557 | 0.55519859 | 6.36800306 | 7.14145202 | 0.01467238 | 0.08822557 | -0.3199199 | 9.00817021 | 7.13942182 | 0.01468452 | 0.08822557 | -0.4869522 | 4.23155519 | 7.13530386 | 0.0147092 | 0.08822557 | 0.4216752 | 5.92017166 | 7.13471847 | 0.01471271 | 0.08822557 | 0.70678216 | 7.2290455 | 7.13327192 | 0.0147214 | 0.08822557 | 0.60416976 | 4.73836367 | 7.13178138 | 0.01473035 | 0.08822557 |
| Gene  | Ybey   | 270062C07i | Akap11  | Htr2b  | Gm5415  | Gas2l3  | Grm5   | Ttc14  | Lrrc7  | Thap1   | Rpl27a  | Ndc1    | Dnah7a  | Zfp518a | Bod1    | Dcafl7  | Tmem131 | Tceb1   | Bloc1s6 | Rpl7l1  | Vezt    | Fam89b  | Tes     | Rhou    | Bard1   | Prkrip1 | Scarb1  | Chit1   | Tubal1c | Atp2b2  | Arhgap28 | Acs1l3 | Mylplp  | Lhfpl3  | Pag1    | Hspa2   | Murc    | Gpatch4 | Rrnad1  | Gtf2ird1 | Grm7    | Dopey1  | Ocm     |
|-------|--------|------------|---------|--------|---------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|       | 0.65936459 | 4.3752205 | 7.13102737 | 0.01473488 | 0.08822557 | -0.5807894 | 3.96942133 | 7.12997412 | 0.01474121 | 0.08822557 | 0.54105812 | 8.45941084 | 7.12937733 | 0.0147448 | 0.08822557 | 1.36642732 | 0.19008035 | 7.12797469 | 0.01475324 | 0.08822557 | 1.41545902 | 2.10985562 | 7.12726778 | 0.01475749 | 0.08822557 | 0.68016215 | 4.64263568 | 7.1264687 | 0.0147623 | 0.08822557 | 0.44446013 | 6.71237517 | 7.12277473 | 0.01478457 | 0.08830111 | 0.77502286 | 6.58514574 | 7.12138219 | 0.01479297 | 0.08830111 | 0.73211877 | 8.01311351 | 7.119634 | 0.01480353 | 0.08831031 | -0.6756796 | 3.74336405 | 7.11674384 | 0.014821 | 0.08833374 | -0.39709399 | 6.97053072 | 7.11600158 | 0.01482549 | 0.08833374 | 0.7104858 | 2.89070847 | 7.11333024 | 0.01484167 | 0.08837636 | 0.70839108 | 2.08891377 | 7.11032175 | 0.01485991 | 0.08843121 | 0.37685777 | 5.61763445 | 7.10783404 | 0.01487501 | 0.08846734 | -0.4506022 | 6.10494432 | 7.10564022 | 0.01488834 | 0.0884929 | 0.45218099 | 4.46786314 | 7.10122846 | 0.01491519 | 0.08855213 | 0.40815942 | 7.23294098 | 7.10103229 | 0.01491639 | 0.0885213 | -0.4119438 | 6.28248636 | 7.09721119 | 0.01493969 | 0.08860901 | -0.4029691 | 5.60075772 | 7.09453729 | 0.01495602 | 0.08860901 | -0.399327 | 4.58990866 | 7.09160491 | 0.01497395 | 0.08860901 | 0.44310613 | 4.86885438 | 7.09127612 | 0.01497597 | 0.08860901 | -0.7870811 | 2.77397986 | 7.09045919 | 0.01498097 | 0.08860901 | -0.5491935 | 3.71867944 | 7.08819816 | 0.01499482 | 0.08860901 | -0.4577767 | 6.75176283 | 7.08769716 | 0.01499789 | 0.08860901 | 1.07560161 | 1.56742693 | 7.08654723 | 0.01500494 | 0.08860901 | -0.675829 | 3.70442885 | 7.0861485 | 0.01500738 | 0.08860901 | 1.04740442 | 2.48768877 | 7.08249663 | 0.01502981 | 0.08860946 | -4.5418945 | -1.5464265 | 7.32390962 | 0.01503264 | 0.08860906 | -0.3077076 | 5.81028806 | 7.08171685 | 0.0150346 | 0.08860906 | 0.48974967 | 9.28140881 | 7.07629317 | 0.01506798 | 0.08868485 | -0.6578015 | 4.00822004 | 7.07386286 | 0.01508296 | 0.08868485 | 0.32180077 | 7.2432512 | 7.07345371 | 0.01508549 | 0.08868485 | -0.5949613 | 4.11546844 | 7.07117769 | 0.01509954 | 0.08868485 | 0.56304354 | 3.85531894 | 7.06936341 | 0.01511075 | 0.08868485 | 0.39400706 | 5.64446304 | 7.06832836 | 0.01511715 | 0.08868485 | 0.51714382 | 4.93156623 | 7.06638908 | 0.01512915 | 0.08868485 | 2.78821812 | -0.1710877 | 7.06636007 | 0.01512933 | 0.08868485 | -0.3996649 | 4.88868949 | 7.0659634 | 0.01513179 | 0.08868485 | 0.55411811 | 3.60625809 | 7.06441199 | 0.01514139 | 0.08868485 | 0.50993232 | 3.59592891 | 7.06208397 | 0.01515583 | 0.08868485 | 0.78319595 | 4.58101982 | 7.06101795 | 0.01516244 | 0.08868485 | 0.64099109 | 5.58148673 | 7.06059103 | 0.01516509 | 0.08868485 | -2.1848978 | -0.9293338 | 7.05342157 | 0.01520966 | 0.08887497 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-------|---------|---------|---------|---------|---------|---------|
| Brms1 | -0.7308092 | 2.6401315 | 7.05172016 | 0.01522026 | 0.08887497 |
| Eif5a2 | -0.4171326 | 6.5726775 | 7.05098899 | 0.01522482 | 0.08887497 |
| Cryz  | -0.7237768 | 2.82523574 | 7.04691248 | 0.01525026 | 0.08891868 |
| Argef2 | 0.46640613 | 6.1855433 | 7.04560226 | 0.01525844 | 0.08891868 |
| Kcn3  | 0.67854117 | 4.1629489 | 7.04288081 | 0.01527546 | 0.08891868 |
| Hexitc | 1.0225139 | 1.95366144 | 7.04271155 | 0.01527652 | 0.08891868 |
| Nop56 | 0.42602563 | 6.54885014 | 7.0425239 | 0.0152777 | 0.08891868 |
| Rpl27 | -0.4970555 | 6.01299865 | 7.03955249 | 0.0152963 | 0.08897412 |
| Timm10b| -0.7731541 | 2.6479208 | 7.03494701 | 0.0153252 | 0.08908928 |
| E4f1  | 0.76170119 | 2.50487204 | 7.03257703 | 0.01534009 | 0.08912296 |
| Kdm5a | 0.38160539 | 7.06546638 | 7.02659323 | 0.01537776 | 0.08918328 |
| Jmd6  | -0.5592568 | 2.98096008 | 7.02579024 | 0.01538283 | 0.08918328 |
| Zfp759| 0.52701122 | 3.76817556 | 7.02397965 | 0.01539792 | 0.08918328 |
| Kbtbd3| 0.61346144 | 3.29849578 | 7.02144558 | 0.01541025 | 0.08918328 |
| Dnajb4| -0.3185158 | 8.41229707 | 7.02007294 | 0.01541893 | 0.08918328 |
| Glo1  | -0.4463169 | 6.44821502 | 7.01958602 | 0.01542201 | 0.08918328 |
| Tnk2  | 0.44934315 | 5.09369377 | 7.01910515 | 0.01542505 | 0.08918328 |
| BC030336| 0.37356371 | 5.66464111 | 7.01816398 | 0.01543101 | 0.08918328 |
| Ccndp1| -0.4192855 | 6.68427437 | 7.01794164 | 0.01543241 | 0.08918328 |
| Zcchc5| -2.5341814 | -0.4091356 | 7.01393294 | 0.01545781 | 0.0892475 |
| Rad52 | -0.5221349 | 3.57807302 | 7.01331198 | 0.01546175 | 0.0892475 |
| Nat8l | 0.52211689 | 6.37950119 | 7.01136174 | 0.01547413 | 0.08926633 |
| LOC1005050| 1.72290848 | 0.48424062 | 7.00891003 | 0.0154897 | 0.08930358 |
| Gm15413| 2.84757434 | -0.5351781 | 7.00415874 | 0.01551993 | 0.08930495 |
| AA987161| 0.39029757 | 5.33446726 | 7.00250421 | 0.01553047 | 0.08930495 |
| Mall  | -1.865388 | 0.83161331 | 7.00218667 | 0.0155325 | 0.08930495 |
| Cdc42ep2| -0.8847737 | 2.08049696 | 7.00068951 | 0.01554205 | 0.08930495 |
| Fcf1  | -0.4807867 | 4.74357637 | 7.00014428 | 0.01554553 | 0.08930495 |
| Tmem104| 0.57915717 | 3.95676381 | 6.9968191 | 0.01556676 | 0.08930495 |
| Il1bos| -5.4711565 | -2.0499981 | 7.23053079 | 0.01557973 | 0.08930495 |
| Mab213 | 4.02317576 | -1.79967 | 6.99445394 | 0.01558189 | 0.08930495 |
| Dzank1| 0.44702664 | 8.55865494 | 6.99282023 | 0.01559234 | 0.08930495 |
| Zfp772| 0.52817655 | 4.258458 | 6.99048884 | 0.01560728 | 0.08930495 |
| Siah2 | -0.48378 | 4.21540597 | 6.99048003 | 0.01560734 | 0.08930495 |
| BC003965| -0.3400448 | 6.03354468 | 6.98970407 | 0.01561231 | 0.08930495 |
| Cir1  | -0.3181326 | 6.95479119 | 6.9891922 | 0.01561559 | 0.08930495 |
| Mir32 | 6.63026578 | -1.9347568 | 7.22426582 | 0.01561758 | 0.08930495 |
| Zfp580 | -0.4951104 | 3.72006209 | 6.98437461 | 0.01564653 | 0.08934686 |
| Ccdec5c| 1.0374107 | 0.96337472 | 6.98341803 | 0.01565268 | 0.08934686 |
| Uty   | 0.45490722 | 5.05926965 | 6.98226127 | 0.01566012 | 0.08934686 |
| Actg1 | -0.2733967 | 8.97424616 | 6.98103066 | 0.01566804 | 0.08934686 |
| Tdrp  | -0.5149937 | 5.87769403 | 6.97943035 | 0.01567834 | 0.08934686 |
| Pard6b| -0.6966504 | 3.34604039 | 6.97923044 | 0.01567963 | 0.08934686 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| Gm1045 | 4.26783252 | -1.1786568 | 6.8818219 | 0.01632157 | 0.09063536 |
| Parp9  | -0.6537624 | 3.39208783 | 6.87782632 | 0.01634853 | 0.09063536 |
| Ephb6  | 0.67030124 | 3.56772938 | 6.87773957 | 0.01634911 | 0.09063536 |
| Cep78  | 0.73708684 | 2.62711095 | 6.87749701 | 0.01635075 | 0.09063536 |
| Gm20337| 1.08335901 | 2.04686625 | 6.87517195 | 0.01636646 | 0.09063536 |
| Atpt9a | 0.48833134 | 4.80433389 | 6.87416875 | 0.01637324 | 0.09063536 |
| Mcc1   | 0.58736229 | 3.58728736 | 6.87384695 | 0.01637542 | 0.09063536 |
| Hypk   | -0.554776 | 6.55731281 | 6.87351698 | 0.01637765 | 0.09063536 |
| Abcc1  | 0.66969925 | 3.88169339 | 6.87086468 | 0.01639561 | 0.0906835 |
| Dnal1  | -0.3414023 | 7.03713148 | 6.86555807 | 0.0164316 | 0.09083127 |
| Ccl6   | -1.5684453 | 0.33841368 | 6.86119037 | 0.01646129 | 0.09094407 |
| Kctd2  | -0.3990826 | 5.52235383 | 6.85632227 | 0.01649445 | 0.09107591 |
| Samd12 | -0.6926468 | 3.24731974 | 6.85476714 | 0.01650506 | 0.09108341 |
| Mir6369| 2.40166129 | 0.57777275 | 6.84955652 | 0.01654066 | 0.09122822 |
| Hnrnpab| -0.4893948 | 7.5806322 | 6.84782695 | 0.0165525 | 0.09124213 |
| Terf2  | -0.3163754 | 6.26750373 | 6.84369934 | 0.01658079 | 0.09133504 |
| Zcchc14| 0.34802494 | 6.32427807 | 6.84256651 | 0.01658856 | 0.09133504 |
| Htt    | 0.60599473 | 6.73840291 | 6.83989647 | 0.0166069 | 0.09133504 |
| Pbl1   | 0.03090817 | 3.46365228 | 6.83945911 | 0.0166099 | 0.09133504 |
| Fgf1   | -0.4086743 | 7.40894278 | 6.83670592 | 0.01662884 | 0.09133504 |
| Mrpl24 | -0.7840313 | 2.82661338 | 6.83628454 | 0.01663174 | 0.09133504 |
| Gm7173 | 2.00959576 | -0.6906791 | 6.83586519 | 0.01663462 | 0.09133504 |
| Man2a2 | 0.3700002 | 6.90128601 | 6.83267527 | 0.0166566 | 0.09140448 |
| Casp8  | -0.5544389 | 5.33351205 | 6.8289029 | 0.01668264 | 0.09149608 |
| Atg3   | -0.311192 | 6.65030074 | 6.82703082 | 0.01669557 | 0.09151579 |
| Baia3  | 1.29089262 | 1.53709293 | 6.81906912 | 0.01675071 | 0.0917356 |
| Hint1  | -0.4136419 | 5.21577441 | 6.8185373 | 0.0167544 | 0.0917356 |
| Kcnq2  | 0.47657531 | 5.52989196 | 6.8154712 | 0.0167757 | 0.09180088 |
| Fox1   | -1.5934092 | 0.56077686 | 6.81267027 | 0.01679518 | 0.09180475 |
| P2ry6  | 1.2292337 | 0.78746139 | 6.81143833 | 0.01680375 | 0.09180475 |
| Zfp526 | -0.6584791 | 3.07793303 | 6.8098859 | 0.01681457 | 0.09180475 |
| Rpl34  | -1.0309345 | 0.76180846 | 6.80849803 | 0.01682424 | 0.09180475 |
| Eif1   | -0.4438522 | 7.99043545 | 6.80822542 | 0.01682614 | 0.09180475 |
| Aptr   | -0.6464625 | 3.50790968 | 6.80466841 | 0.01685097 | 0.09180475 |
| Trappc8| 0.34824361 | 6.26284445 | 6.80412684 | 0.01685475 | 0.09180475 |
| Atg10  | -0.5920796 | 4.0415969 | 6.80295913 | 0.01686291 | 0.09180475 |
| Apaf1  | 0.54665911 | 3.97683856 | 6.80229929 | 0.01686753 | 0.09180475 |
| Madcam1| -4.1789171 | -2.0561187 | 6.80192731 | 0.01687013 | 0.09180475 |
| Ube2l3 | -0.3667856 | 7.51291036 | 6.79993615 | 0.01688406 | 0.09182265 |
| Ttc21b | 0.5421233 | 4.37167452 | 6.79877869 | 0.01689217 | 0.09182265 |
| Nfylb  | -0.3900514 | 5.3894868 | 6.79237644 | 0.01693708 | 0.09201571 |
| Oaz2   | -0.4150354 | 6.79732827 | 6.79063993 | 0.01694928 | 0.09203097 |
| Plag1  | 0.74734051 | 2.70955177 | 6.78594312 | 0.01698234 | 0.09211627 |
| Gene   | 0.48523085 | 0.87840816 | 1.67697103 | 0.58988907 | 0.73565185 | 1.53566086 | 0.30525855 | 0.92111912 | 2.01838788 | 0.66319236 | -7.0425319 | 0.5291776 | 1.2396785 | 3.86267914 | 1.85250892 | 8.54003851 | 5.78589024 | 1.16208681 | 6.74936548 | 0.0174055 | 0.09291155 | 0.0930058 | 0.0930058 | 0.0930044 | 0.0933562 | 0.09337985 | 0.0923124 | 0.09351863 | 0.09362201 | 0.09362201 | 0.09362201 | 0.09362201 | 0.09362201 | 0.09362201 | 0.09362201 | 0.09362201 |
|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Gene       | Zc3hav1   | Zmynd8    | Cccdc153  | Usp9x    | Hspa1l   | Rfx4      | Cd320     | Zranb2   | Mocs2    | Tex12    | Kxd1      | Pmvk      | 1700052K11Rik | Comtd1   | Nudcd1 | Rcsd1    | Dnajc1   | Myh3     | Rabggtb  | Sgo2      | Olfr613   | Aen       | Rnf44     | Dtna      | Mre11a    | Inpp4b    | Tex13     | Cccdc90b  | Smco1     | P2ry12    | Arid2     | Rasal2    | Dsel      | Zfp418    | Adam19    | Sox2      | NhlrC2    | Rac2      | Capzb     | Txndc16   | Tmem245   | Tmem115   | Rps21     |
|------------|-----------|-----------|-----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|----------|----------------|----------|---------|-----------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|----------|---------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|
|            | -0.4338585 | 0.3760481 | -0.9542948 | 0.48642305 | 0.76948797 | 0.71252306 | 0.31903261 | -0.383916 | 1.9804609 | 0.5562532 | 0.4920097 | -0.4259929 | -0.5101411 | 0.51101411 | -0.6315046 | 0.42173988 | 0.7151897 | -0.3933383 | -0.6554929 | 0.82458042 | -0.5249342 | 0.36933532 | 0.89877817 | 0.55970295 | 1.64237331 | -0.5299777 | -0.606865 | 0.3110003 | 0.43120663 | 0.44739599 | 0.57341503 | 0.44749985 | 0.66034582 | 0.50384674 | -0.6779352 | -0.4327507 | 0.41064792 | 0.43945701 | -0.8339763 | -0.5458036 |
|            | 5.52843251 | 6.82734109 | 1.80355475 | 9.85788988 | 2.37598543 | 2.81476072 | 8.01362559 | 6.47662521 | 6.7248817 | 4.23318675 | 6.84766251 | 3.58539855 | 3.65886042 | 4.59087504   | 5.08351019 | 2.04655776 | 2.85164241 | -0.1499423 | 6.33194334 | 5.43212935 | 5.40977761  | 5.03122935 | 5.04687632  | 6.70487632 | 5.03122935 | 5.37343566 | 3.76158255 | 2.78924291 | 8.59633439 | 5.51547541 | 2.20816434 | 5.20132058 | 6.59925655 | 6.68315256 | 6.68315256 | 6.68796997 | 6.67817129 | 6.67799223 | 6.67956755 | 6.68608188 | 6.66820830 |
|            | 6.9003165  | 6.68888294 | 6.85769933 | 6.6854015  | 6.68315256 | 6.67696997 | 6.67817129 | 6.67799223 | 6.6777755 | 6.67248817 | 6.6707689  | 6.67302073 | 6.64606242 | 6.64695115   | 6.64211919 | 6.64217394 | 6.64006071 | 2.46557776 | 6.73438254 | 6.6383518  | 6.73003161 | 6.63632701 | 6.6313245  | 6.62819608 | 6.62659047 | 6.62029684 | 6.62029337 | 6.62018853 | 6.61974061 | 6.61869911 | 6.61636322 | 6.61258031 | 6.61038258 | 6.60951028 | 6.60458481 | 6.60408146 | 6.60344853 | 6.60218528 | 6.60130568 | 6.59925655 | 6.59925655 | 6.59925655 | 6.59925655 | 6.59925655 | 6.59925655 |
| Gene     | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|----------|---------|---------|---------|---------|---------|---------|
| Dlx1as   | 0.54812601 | 3.27813681 | 6.59886656 | 0.01835982 | 0.09505316 |
| Tpm4     | -0.5348752 | 9.13505951 | 6.59663735 | 0.01837697 | 0.09509171 |
| Slc23a1  | 1.15375714 | 0.69192188 | 6.59488838 | 0.01839044 | 0.09511117 |
| Ctn1     | -0.2641379 | 7.61037203 | 6.58508463 | 0.01846616 | 0.09540328 |
| Igdc3    | 2.13368783 | 0.90123757 | 6.5831837 | 0.01848088 | 0.09540328 |
| Taf2     | 0.37316952 | 5.91568039 | 6.58293827 | 0.01848278 | 0.09540328 |
| Psg29    | 1.60941083 | 0.02160437 | 6.58146254 | 0.01849422 | 0.09540328 |
| 4930478L05f | 3.01575509 | -1.0812398 | 6.58128102 | 0.01849563 | 0.09540328 |
| Khdrbs3  | -0.3353289 | 6.39263603 | 6.57987941 | 0.01850605 | 0.09540912 |
| Lamtor3  | -0.4964619 | 5.61417099 | 6.56928423 | 0.01858892 | 0.09578362 |
| Ogfod1   | 0.36200389 | 7.29648385 | 6.56695509 | 0.01860709 | 0.09582686 |
| 4930478H14 | 0.86752948 | 6.76646202 | 6.56510111 | 0.01861759 | 0.09583057 |
| Ndufb4   | -0.6027857 | 5.90445898 | 6.56278166 | 0.01863979 | 0.09589145 |
| Hmgb3    | -0.3315023 | 5.81681194 | 6.56114925 | 0.01865248 | 0.09589145 |
| BC048403 | -0.4857767 | 4.04730673 | 6.56003483 | 0.01866121 | 0.09589145 |
| Nsun7    | 1.13399165 | 2.25496462 | 6.55909344 | 0.01866858 | 0.09589145 |
| Kalrn    | -0.3738552 | 11.7778886 | 6.55587182 | 0.01869384 | 0.09589302 |
| Ccc48    | 1.46944671 | 1.12289914 | 6.55329168 | 0.01871411 | 0.09589302 |
| Csgalnact1 | 0.60821193 | 3.77298761 | 6.5523109 | 0.01872181 | 0.09589302 |
| Lig1     | 0.45749408 | 4.07456712 | 6.5520938 | 0.01872418 | 0.09589302 |
| Mgea5    | 0.39655275 | 8.6334026 | 6.55166576 | 0.01872689 | 0.09589302 |
| Ggcx     | 0.57529746 | 3.1388994 | 6.54996738 | 0.01874025 | 0.09589302 |
| Up51     | 1.26290925 | 1.25592002 | 6.54945233 | 0.0187443 | 0.09589302 |
| Dcaf12   | -0.5173001 | 5.27104991 | 6.54840862 | 0.01875252 | 0.09589302 |
| Stmnd1   | -2.4754315 | -0.550832 | 6.54656463 | 0.01876705 | 0.09589302 |
| Ngfrap1  | -0.4209479 | 6.52437935 | 6.54651048 | 0.01876747 | 0.09589302 |
| Itgav    | 0.35011058 | 5.95813429 | 6.54535632 | 0.01877657 | 0.09589302 |
| Pfkfb2   | 0.34733348 | 5.92260936 | 6.53956141 | 0.01882234 | 0.09607666 |
| Rpl6     | -0.4250613 | 7.75574068 | 6.53428538 | 0.01886412 | 0.09623678 |
| Timm8a1  | -0.4948898 | 5.39448299 | 6.53312003 | 0.01887336 | 0.09623678 |
| Bnip3l   | -0.3696143 | 8.24542799 | 6.53014716 | 0.01889696 | 0.09630698 |
| Pde2a    | 0.46770657 | 6.77089871 | 6.52524739 | 0.01893592 | 0.09643672 |
| Slc35d1  | 0.42667996 | 4.13099089 | 6.5243233 | 0.01894328 | 0.09643672 |
| Dmxl1    | 0.52362026 | 7.30485153 | 6.52302609 | 0.01895362 | 0.09643672 |
| Psma1    | -0.4528038 | 5.55774646 | 6.52200055 | 0.0189618 | 0.09643672 |
| Kntc1    | 2.57485518 | 0.00439838 | 6.51982716 | 0.01897914 | 0.09647482 |
| Sgcb     | 0.45878854 | 4.81756868 | 6.5153652 | 0.01901479 | 0.09660593 |
| Sftd3    | 0.58680852 | 3.19211929 | 6.5086657 | 0.01906847 | 0.09675179 |
| Mfsd4    | 0.60437375 | 7.06259956 | 6.5061727 | 0.01908848 | 0.09675179 |
| Cila     | -0.379665 | 6.84018885 | 6.50611093 | 0.01908898 | 0.09675179 |
| Pebp4    | 2.55353466 | -0.8767812 | 6.50605627 | 0.01908942 | 0.09675179 |
| Tmem95   | 4.19756566 | -2.4731922 | 6.50488529 | 0.01909883 | 0.09675179 |
| Nt5dc1   | 0.75603132 | 3.02824271 | 6.50439599 | 0.01910276 | 0.09675179 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  |
|-------|---------|---------|---------|---------|---------|
| Srrd  | 1.10853054 | 1.36859612 | 6.5015374 | 0.01912577 | 0.09680782 |
| Copg2 | 0.51460755 | 5.85953571 | 6.50026445 | 0.01913602 | 0.09680782 |
| Ndufaf2 | -0.5894893 | 4.81039689 | 6.49933906 | 0.01914347 | 0.09680782 |
| Baalc | -0.302876 | 7.07479323 | 6.49756732 | 0.01915776 | 0.09683007 |
| Sav1  | -0.3495092 | 6.59991401 | 6.49348204 | 0.01919075 | 0.09686036 |
| Cypdf13 | 1.04075682 | 1.16738394 | 6.49317358 | 0.01919324 | 0.09686036 |
| Rgs11 | 1.49026658 | 1.394385 | 6.49315158 | 0.01919342 | 0.09686036 |
| Agpat3 | 0.44505342 | 4.96856857 | 6.49016201 | 0.0192176 | 0.09693247 |
| Kmt2b | 0.50177028 | 4.65995809 | 6.4835319 | 0.01927136 | 0.09704753 |
| Yae1d1 | -0.3477438 | 6.50183287 | 6.48240251 | 0.01928053 | 0.09704753 |
| 1110004F10l | -0.4598894 | 6.35477478 | 6.48079495 | 0.0192936 | 0.09704753 |
| Gm14440 | -0.4036734 | 5.28812743 | 6.48045935 | 0.01929633 | 0.09704753 |
| Esr1  | 1.26767977 | 1.10288743 | 6.47900323 | 0.01930817 | 0.09704753 |
| Jak2  | 0.31200242 | 6.25237217 | 6.47859121 | 0.01931153 | 0.09704753 |
| 1700030C10l | 1.24311291 | 1.00427737 | 6.47759802 | 0.01931961 | 0.09704753 |
| Mettl6 | -0.6763185 | 3.84319082 | 6.47693505 | 0.01932501 | 0.09704753 |
| Al314180 | 0.34279493 | 7.16951713 | 6.47637431 | 0.01932958 | 0.09704753 |
| 5031426D15 | 1.05794305 | 3.58407533 | 6.47456613 | 0.01934432 | 0.09705045 |
| Sparcl1 | 0.44781347 | 8.69193104 | 6.47259873 | 0.01936037 | 0.09705045 |
| Nme2  | -0.5545657 | 6.80607066 | 6.4725703 | 0.01936061 | 0.09705045 |
| Ubxn2a | -0.3414673 | 6.98286005 | 6.46854028 | 0.01939353 | 0.09714223 |
| Bcap29 | 0.42174823 | 5.17023279 | 6.46735519 | 0.01940323 | 0.09714223 |
| Mob3c  | -0.5254674 | 4.65589937 | 6.46677853 | 0.01940795 | 0.09714223 |
| B3gat2 | 0.95610207 | 2.95666919 | 6.46343046 | 0.01943537 | 0.09720718 |
| Slc36a1os | 0.88083165 | 2.78054286 | 6.46222082 | 0.01944529 | 0.09720718 |
| Arsa   | -0.7509289 | 2.4348493 | 6.46156252 | 0.0194507 | 0.09720718 |
| Txndc5 | -0.4252868 | 4.95852922 | 6.45919276 | 0.01947015 | 0.09723492 |
| Macf1  | 0.63766643 | 9.05836431 | 6.45846886 | 0.0194761 | 0.09723492 |
| Phtf2  | 0.40150349 | 5.23459006 | 6.45689851 | 0.01948901 | 0.0972498 |
| 1600029O15 | -1.1139702 | 1.62135196 | 6.45536486 | 0.01950162 | 0.09726321 |
| Psmd10 | -0.7396748 | 4.10335909 | 6.45060005 | 0.01954088 | 0.09736793 |
| Mras   | -0.2791555 | 6.99979418 | 6.45040357 | 0.0195425 | 0.09736793 |
| D10Bwg137f | 0.6651138 | 7.06518929 | 6.44371048 | 0.0195978 | 0.09759381 |
| Dtnbp1 | -0.4568468 | 5.32169113 | 6.44114608 | 0.01961904 | 0.0976062 |
| Crb2   | -2.5558394 | -0.6515591 | 6.44100323 | 0.01962022 | 0.0976062 |
| Fam161a | -0.9754351 | 1.83373933 | 6.43872058 | 0.01963914 | 0.09765075 |
| Celrr  | 1.91295262 | 0.30316582 | 6.43461522 | 0.01967323 | 0.09770694 |
| Tsc1   | 0.50657082 | 5.94436256 | 6.43437734 | 0.01967521 | 0.09770694 |
| Derl2  | 0.50178474 | 3.56033296 | 6.4337566 | 0.01968037 | 0.09770694 |
| Cep85l | 0.56283868 | 4.01500005 | 6.42783067 | 0.01972971 | 0.09775572 |
| H2afx  | -0.5406061 | 3.05993906 | 6.42724301 | 0.01973461 | 0.09775572 |
| Adarb2 | 0.50946 | 4.9735665 | 6.42705628 | 0.01973617 | 0.09775572 |
| Gpr75  | 0.66403498 | 3.63762434 | 6.42701098 | 0.01973654 | 0.09775572 |
| Gene     | Expression Value 1 | Expression Value 2 | Expression Value 3 | Expression Value 4 | Expression Value 5 | Expression Value 6 | Expression Value 7 | Expression Value 8 | Expression Value 9 | Expression Value 10 | Expression Value 11 | Expression Value 12 | Expression Value 13 | Expression Value 14 | Expression Value 15 | Expression Value 16 | Expression Value 17 | Expression Value 18 | Expression Value 19 | Expression Value 20 | Expression Value 21 | Expression Value 22 | Expression Value 23 | Expression Value 24 | Expression Value 25 | Expression Value 26 | Expression Value 27 | Expression Value 28 | Expression Value 29 | Expression Value 30 |
| Gene  | Cstad | Ptk2b  | Coprs | Zfp523 | Supt6 | Glrx | BC018507 | Plekhh1 | Tmem179 | Ces5a | 9530091C08 | Pex10 | Flt3  | Rufy2 | Vps11 | Nrg4 | 4933424G05 | Ctdnep1 | Lipt2 | Snora81 | Ptpro | Tmem258 | 1700007J10 | Map1b  | Etnf1 | Rgs19 | Smyd3 | Ano3 | Chd9 | N6amt1 | Alg10b | Mrps16 | Gsap | Mettl17 | Ccl7  | Mdp1  | Dpbht2 | Trio  | Chchd2 | Degs2 | Dock9  | Bcl10 | Stx7   |
|-------|-------|--------|-------|--------|-------|------|---------|---------|--------|------|----------|-------|------|-------|-------|------|-------------|---------|-------|--------|-------|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
|       | -0.7785878 | 2.55510493 | 6.24534733 | 0.02131933 | 0.10117729 | 0.40663541 | 7.47935581 | 6.23873847 | 0.02137954 | 0.10131174 | -0.6090712 | 3.63211372 | 6.23763108 | 0.02138965 | 0.10131174 | 0.47273215 | 4.07551606 | 6.23677678 | 0.02139745 | 0.10131174 | 0.39855618 | 7.40632526 | 6.23665224 | 0.02139859 | 0.10131174 | -0.4208723 | 6.11625311 | 6.23590118 | 0.02140545 | 0.10131174 | 0.50806851 | 6.72558247 | 6.23543458 | 0.02140971 | 0.10131174 | 0.44984094 | 5.81147658 | 6.23393769 | 0.02142834 | 0.10135092 | 0.52884329 | 3.41467723 | 6.22913362 | 0.02146739 | 0.10139541 | -3.8826213 | -1.1757707 | 6.22911445 | 0.02146757 | 0.10139541 | 1.08838609 | 4.62543707 | 6.22897974 | 0.0214688 | 0.10139541 | 0.6748464 | 2.67676415 | 6.22582511 | 0.02149775 | 0.10148319 | 1.42650486 | 0.51524891 | 6.2246842 | 0.02150822 | 0.10148375 | 0.57592771 | 6.03410088 | 6.22084932 | 0.02154349 | 0.10152167 | 0.4309372 | 4.10357047 | 6.21954289 | 0.02155552 | 0.10152167 | 1.9800461 | -0.4053342 | 6.21858888 | 0.02156431 | 0.10152167 | 1.42700987 | 1.07474415 | 6.21729573 | 0.02157622 | 0.10152167 | -0.4037008 | 5.82205095 | 6.21711541 | 0.02157789 | 0.10152167 | -0.8493678 | 2.11350335 | 6.21705457 | 0.02157845 | 0.10152167 | 2.65395586 | -1.7249084 | 6.21060273 | 0.02163803 | 0.10174707 | 0.53176538 | 3.42849331 | 6.20961935 | 0.02164713 | 0.10174707 | -0.697353 | 2.43606167 | 6.20282861 | 0.02171008 | 0.10196454 | 1.52929413 | 0.06999481 | 6.20238239 | 0.02171422 | 0.10196454 | 0.69893355 | 12.0341584 | 6.19401364 | 0.02179209 | 0.10220551 | -0.3677991 | 6.60591641 | 6.19366532 | 0.02179534 | 0.10220551 | -0.4993085 | 4.53633584 | 6.19350452 | 0.02179684 | 0.10220551 | 0.32377446 | 6.18558953 | 6.19108784 | 0.02181939 | 0.10225252 | 0.46409235 | 7.88990707 | 6.18744057 | 0.02185347 | 0.10225252 | 0.40866735 | 7.98540391 | 6.18737888 | 0.02185405 | 0.10225252 | -0.3344235 | 5.66789646 | 6.18724428 | 0.02185531 | 0.10225252 | 0.374683 | 5.55240241 | 6.18655636 | 0.02186174 | 0.10225252 | -0.5879011 | 3.20787223 | 6.18572814 | 0.0218695 | 0.10225252 | 0.72464853 | 2.23454519 | 6.18375298 | 0.02188799 | 0.10229018 | 0.91585905 | 1.69387304 | 6.17980482 | 0.02192502 | 0.1024142 | -2.429517 | -0.4119397 | 6.17869519 | 0.02193544 | 0.1024142 | -0.4409514 | 4.40685737 | 6.17612892 | 0.02195956 | 0.10247797 | -0.3583113 | 7.6516806 | 6.1669523 | 0.02204605 | 0.1028326 | 0.50322277 | 7.7197757 | 6.16564633 | 0.02205839 | 0.10284119 | -0.3684118 | 7.6487621 | 6.1640718 | 0.02207328 | 0.10286164 | 1.06296612 | 1.57855019 | 6.16281692 | 0.02208516 | 0.10286804 | 0.43691081 | 6.49843439 | 6.15818283 | 0.02212907 | 0.10302357 | -0.6785258 | 4.85800539 | 6.15510485 | 0.02215828 | 0.10309123 | -0.3172714 | 7.46022408 | 6.15443527 | 0.02216465 | 0.10309123 |
| Gene  | COX7C  | Gm15800 | Gtf3c1  | Aox2   | Trib3  | Uap1   | Dhrs11  | D130020L05 | Trmt6l1 | A230073K19 | Prdm10 | Decr1  | 9130024F11l | Pcdhb5 | Zfp952  | Gm5820  | Dear1  | Ccdc2  | Msn     | Ppcs   | Osbpl6 | Agk     | 1700011I03R | Bmp3   | BC033916 | Acot2  | Adam22  | P2ry13  | Adcy1  | Zfp653  | EpmA2  | Crx     | Cpxm2  | Pcdhb15 | Ascl1  | Tcp1111 | Nploc4  | Ub5    | Reep2  | Ubl3   | Cox6b1  | Nefh   | Enc1   |
|-------|--------|---------|---------|--------|--------|--------|---------|-----------|---------|------------|---------|---------|-------------|--------|---------|---------|--------|--------|---------|--------|--------|---------|---------|--------|---------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
|       | -0.481056 | 0.7592759 | 0.51882119 | -0.0859042 | 3.59080271 | -0.3305164 | 1.59135098 | 0.66616802 | -0.5844423 | 1.066305 | 0.70522277 | -0.5193083 | 0.55921951 | 0.67675077 | 0.37350883 | -0.9982433 | 1.31031022 | 0.3806106 | -0.437815 | -0.7065262 | 0.34031932 | 0.43516182 | -0.5844423 | 6.0765077 |
|       | 7.3157046  | 8.44724005 | 6.48782816 | -0.911969 | -1.1817498 | 5.8001539 | 0.67137026 | 2.63523436 | 3.3221804 | 4.54489843 | 2.96049665 | 5.39052888 | 4.23553446 | 1.85880226 | 4.62373598 | 1.83755461 | 1.65996176 | 6.84565661 | 6.11916594 | 2.41680731 | 7.06424395 | 4.41723715 | 6.11273652 | 6.12926346 | 6.12873652 | 17.2736527 |
|       | 6.15259999 | 6.15086745 | 6.14834936 | 6.14516686 | 6.14243582 | 6.14322425 | 6.14304551 | 6.14247568 | 6.13996382 | 6.13432645 | 6.1337017 | 6.13197254 | 6.13146971 | 6.12926346 | 6.12736527 | 6.12694042 | 6.12384137 | 6.11977716 | 6.11965269 | 6.11854541 | 6.11766518 | 6.11724382 | 6.11185451 | 6.11185451 | 6.11916594 | 6.11977716 |
|       | 0.0221821 | 0.02219858 | 0.02222257 | 0.02225292 | 0.02226181 | 0.02227148 | 0.02227318 | 0.02227863 | 0.02230265 | 0.02235668 | 0.02236267 | 0.02237928 | 0.02238411 | 0.02240532 | 0.02242359 | 0.02242768 | 0.02245754 | 0.02249678 | 0.02250269 | 0.02250869 | 0.02253172 | 0.02256486 | 0.02258141 | 0.02258301 | 0.02258380 | 0.02259354 |
|       | 0.10312342 | 0.1031511 | 0.1032136 | 0.10322925 | 0.10322925 | 0.10347182 | 0.10347182 | 0.10352809 | 0.10352809 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 | 0.103697 |
| Gene    | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|---------|---------|---------|---------|---------|---------|---------|
| Farp2   | -0.5490867 | 2.80240206 | 6.07902178 | 0.02289453 | 0.10430679 |
| Tmem242 | -0.5898744 | 4.09529041 | 6.07443925 | 0.02293975 | 0.10446421 |
| Rpl41   | -0.5359423 | 8.18340747 | 6.06955272 | 0.02298808 | 0.10449942 |
| Dkc1    | -0.3099577 | 6.20082846 | 6.06885037 | 0.02299503 | 0.10449942 |
| Xndc1   | -0.575104  | 3.95280623 | 6.06743223 | 0.02300908 | 0.10449942 |
| Zfyve16 | 0.43423967 | 4.90161948 | 6.06644051 | 0.02301891 | 0.10449942 |
| Gzmb    | 2.53693668 | -0.3237874 | 6.06567445 | 0.02302651 | 0.10449942 |
| Atp5f1  | -0.2880864 | 7.46224354 | 6.06423095 | 0.02304084 | 0.10449942 |
| Taldo1  | -0.3818867 | 4.07313907 | 6.06388481 | 0.02304427 | 0.10449942 |
| Evi2a   | 0.76962483 | 2.7935894 | 6.06381919 | 0.02304492 | 0.10449942 |
| Stat6   | -0.4561976 | 5.05259947 | 6.06355129 | 0.02304758 | 0.10449942 |
| Zrsl1   | -0.2400071 | 6.95800016 | 6.06288899 | 0.02305416 | 0.10449942 |
| Krt7    | -3.9652463 | -1.709268 | 6.0606351 | 0.02307656 | 0.10455257 |
| Prmt5   | -0.3742625 | 4.74281688 | 6.05832128 | 0.02309959 | 0.10459392 |
| Ovol1   | -1.9707685 | -0.3744116 | 6.057572 | 0.02310705 | 0.10459392 |
| L3hypdh | -0.8136712 | 2.99052929 | 6.05364526 | 0.02314619 | 0.10472272 |
| Knb1    | 0.49786388 | 8.01709243 | 6.04938468 | 0.02318875 | 0.10485347 |
| Sel1l   | 0.35767848 | 7.13736227 | 6.04693075 | 0.0232133 | 0.10485347 |
| Cep85   | 0.52104844 | 3.329014 | 6.04647312 | 0.02321788 | 0.10485347 |
| Gm14391 | 1.2248903 | 1.93452359 | 6.04606663 | 0.02322195 | 0.10485347 |
| Pwp2    | 0.85154959 | 2.67198387 | 6.0454015 | 0.02322861 | 0.10485347 |
| Slx1b   | 0.44563836 | 3.6325023 | 6.04258037 | 0.02325689 | 0.10493278 |
| Nyx     | 2.43958232 | -0.5550092 | 6.03781744 | 0.02330473 | 0.1051002 |
| Tnfrsf12a | -1.8838095 | -0.8392961 | 6.03225076 | 0.02336078 | 0.10528859 |
| Rnf8    | -0.515271 | 4.25082204 | 6.03153459 | 0.023368 | 0.10528859 |
| Edem3   | 0.33045576 | 6.01959876 | 6.02987676 | 0.02338473 | 0.10530383 |
| Mmd     | 0.28819101 | 7.33839218 | 6.02737394 | 0.02341001 | 0.10530383 |
| Lnpep   | 0.27360654 | 6.88376445 | 6.02688023 | 0.023415 | 0.10530383 |
| Uch5l   | 0.29529133 | 6.67267395 | 6.02611647 | 0.02342272 | 0.10530383 |
| C920021L13f | 0.92183616 | 1.96554996 | 6.02587753 | 0.02342514 | 0.10530383 |
| Nup210  | 0.78891847 | 3.04798879 | 6.02410177 | 0.0234431 | 0.10533626 |
| Ppfia2  | 0.38662357 | 7.76153196 | 6.02247622 | 0.02345956 | 0.10536189 |
| Snrpg   | -0.5071335 | 5.054598 | 6.01630584 | 0.02352217 | 0.10559463 |
| Rbm12b2 | 0.52408408 | 4.39119605 | 6.01257522 | 0.02356011 | 0.1057165 |
| Reps1   | -0.3315361 | 6.00264591 | 6.01117891 | 0.02357433 | 0.10573187 |
| Dbhos   | 0.82029352 | 3.35818867 | 6.00845124 | 0.02360213 | 0.10580812 |
| Mipol1  | -0.4976419 | 3.67320862 | 6.00512424 | 0.02363609 | 0.1059119 |
| Hmgcs2  | -0.5840645 | 4.07339553 | 6.00216672 | 0.02366633 | 0.10599025 |
| B230216N24 | 0.80899457 | 2.24691743 | 6.00129797 | 0.02367522 | 0.10599025 |
| Sorbs2  | 0.6263754 | 7.36528757 | 5.99640811 | 0.02372532 | 0.10616605 |
| Fxyd4   | 2.30570339 | -0.3788599 | 5.99395485 | 0.02375051 | 0.10623022 |
| Dalrd3  | -0.6642661 | 3.33754619 | 5.99140736 | 0.02377669 | 0.10625081 |
| Gm5531  | 0.75603847 | 2.74342724 | 5.99139626 | 0.02377681 | 0.10625081 |
| Gene      | Value1  | Value2  |
|-----------|---------|---------|
| Aamdc     | -0.4969896 | 4.22658645 |
| Lrrc19    | 1.52776234 | 0.34240193 |
| Trappc3   | -0.3945392 | 5.00076725 |
| Jag2      | 1.0646691 | 0.88017764 |
| Piwil2    | 2.75729592 | -0.4778187 |
| Cyp2j6    | 0.48126462 | 4.00812163 |
| Acyp2     | -0.3939574 | 4.62581168 |
| Ngdn      | -0.5570927 | 3.72143171 |
| Gprasp1   | 0.6265204 | 8.9720936 |
| Tmem254a  | 1.14086288 | 1.45185985 |
| Akr7a5    | -0.7351306 | 2.3865428 |
| Esr2      | -1.1921792 | 0.69385445 |
| Ndutf5a   | -0.4666171 | 5.61427803 |
| Nup13     | 0.37116104 | 10.51006149 |
| Nsmaf     | 0.44012899 | 4.77577922 |
| Ammecr1   | 0.91201291 | 2.35776292 |
| Cggbp1    | -0.3559188 | 7.33132985 |
| Dcun1d3   | -0.4031527 | 4.96451194 |
| Tle6      | -1.5449083 | 3.1341144 |
| H2-Q4     | 0.94428371 | 1.686645 |
| Car2      | 0.28920496 | 7.0909454 |
| Sumo2     | -0.4658553 | 8.73781098 |
| Kno1      | -0.4017349 | 5.63143563 |
| Dstn      | -0.4159286 | 8.25470472 |
| Klf6      | -0.3043576 | 7.42428216 |
| Zf6p61    | 0.68412692 | 3.04587609 |
| At464131  | 0.74647176 | 2.93921916 |
| Tfrc      | 0.41858469 | 5.51718518 |
| Ccna2     | 0.77211256 | 1.98448009 |
| Acad10    | 1.13458896 | 0.81067931 |
| Syn3      | 0.50183598 | 6.89338645 |
| Krrre2    | 2.76607568 | -0.5200892 |
| Klhl26    | 0.45772978 | 3.63165044 |
| Sfmbt2    | 0.83509295 | 2.54187899 |
| Fkbp8     | -0.4973696 | 5.10116843 |
| Zfp429    | -0.7158847 | 2.01858964 |
| Mast4     | 0.34690862 | 6.68483335 |
| Pura      | -0.2512837 | 6.97518795 |
| Scl5a5    | -0.4825894 | 4.92902346 |
| Gnb2l1    | -0.3859941 | 5.840013 |
| Stub1     | -1.2625932 | 0.86634592 |
| Dclk3     | 0.45083217 | 5.48919709 |
| Actn3     | -2.4836036 | -0.3285975 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Arl2   | -0.5890614 | 3.71063299 | 5.91843616 | 0.02454069 | 0.10746298 |
| Cox6c  | -0.413638 | 7.55381088 | 5.91520112 | 0.0245752 | 0.10746298 |
| Mrp17  | -0.3334635 | 5.65330269 | 5.91382109 | 0.02458994 | 0.10746298 |
| Rrn3   | 0.2936922 | 5.81564163 | 5.91364263 | 0.02459184 | 0.10746298 |
| Sh3bp4 | 0.52799795 | 2.8722618 | 5.91279564 | 0.02460089 | 0.10746298 |
| Pvr13  | 0.3850479 | 5.40676394 | 5.91269183 | 0.024602 | 0.10746298 |
| Rmi1   | -0.352624 | 5.67301753 | 5.91217002 | 0.02460758 | 0.10746298 |
| Akr1a1 | -0.5033236 | 7.81607609 | 5.91090683 | 0.02462109 | 0.10747406 |
| Zfp960 | 0.38058383 | 4.46068238 | 5.90615478 | 0.02467198 | 0.10763568 |
| Lrch1  | 0.51702068 | 4.25291968 | 5.90456289 | 0.02468905 | 0.10763568 |
| Ift52  | -0.4314524 | 4.94907835 | 5.90386311 | 0.02469656 | 0.10763568 |
| Rnf187 | -0.3816212 | 6.80386205 | 5.90335052 | 0.02470207 | 0.10763568 |
| 4930511M06Rik | 0.83447946 | 3.22956521 | 5.90121753 | 0.02472498 | 0.10766176 |
| AY512931 | 1.10958357 | 1.78850411 | 5.90049147 | 0.02473279 | 0.10766176 |
| Spata6 | -0.4693452 | 3.91402258 | 5.89773676 | 0.02476242 | 0.10766176 |
| Ufc1   | -0.4288735 | 5.14966962 | 5.89764155 | 0.02476345 | 0.10766176 |
| Pak6   | 0.49582487 | 3.74563752 | 5.89690532 | 0.02477138 | 0.10766176 |
| Cep350 | 0.45136317 | 6.68424156 | 5.89609198 | 0.02478014 | 0.10766176 |
| Ccdc132 | 0.3556019 | 6.47996057 | 5.89485072 | 0.02479352 | 0.10766176 |
| Herc1  | 0.7053225 | 8.10533263 | 5.8946222 | 0.02479598 | 0.10766176 |
| Cxcl17 | 3.18458832 | -1.1080661 | 5.89033774 | 0.02484223 | 0.10781476 |
| Hcn1   | 0.50851637 | 7.36017206 | 5.88916377 | 0.02485492 | 0.10782206 |
| Usp35  | 0.84138367 | 1.87628475 | 5.88487488 | 0.02490133 | 0.10797561 |
| Icam5  | 0.64973233 | 2.88514723 | 5.88209337 | 0.02493149 | 0.10805853 |
| Gm15401 | 1.14567421 | 0.45559154 | 5.87903906 | 0.02496465 | 0.1081544 |
| Rnf114 | -0.478159 | 5.39363236 | 5.87454442 | 0.02501354 | 0.10822512 |
| Mtx2   | -0.2840437 | 5.6916001 | 5.87408489 | 0.02501854 | 0.10822512 |
| Kcnh3  | 0.48009189 | 3.65536925 | 5.87399973 | 0.02501947 | 0.10822512 |
| 1110032A03 | -0.3926241 | 6.65671181 | 5.87347681 | 0.02502517 | 0.10822512 |
| Spg11  | 0.42443001 | 5.11874808 | 5.86964396 | 0.02506697 | 0.10832011 |
| Gabrb2 | 0.41849403 | 8.24512873 | 5.86943476 | 0.02506925 | 0.10832011 |
| Gsk3a  | -0.2655447 | 7.32194668 | 5.86193712 | 0.02515125 | 0.10850239 |
| Gucy1a3 | 0.44956676 | 7.27725386 | 5.86157403 | 0.02515523 | 0.10850239 |
| Gm21671 | 1.11972861 | 0.9986675 | 5.86118796 | 0.02515946 | 0.10850239 |
| Rasgrf1 | 0.5289518 | 8.33628821 | 5.86090205 | 0.02516259 | 0.10850239 |
| Gamt   | -1.1770014 | 1.99468364 | 5.86051656 | 0.02516682 | 0.10850239 |
| Shank2 | 0.64242428 | 6.98539914 | 5.85928435 | 0.02518034 | 0.1085129 |
| Map2k3 | -0.6365059 | 3.88687435 | 5.85761735 | 0.02519863 | 0.10851852 |
| Chchd4 | -0.4903042 | 4.78100268 | 5.85714689 | 0.0252038 | 0.10851852 |
| Lphn1  | 0.40392379 | 8.35124724 | 5.85492023 | 0.02522827 | 0.10856538 |
| Sorcs2 | 0.5206705 | 3.64157151 | 5.85043496 | 0.02527764 | 0.10856538 |
| Specc1 | 0.3336595 | 6.56145607 | 5.84859015 | 0.02529797 | 0.10856538 |
| Gene   | Log2FoldChange | p-value       | Log2FoldChange | p-value       |
|--------|----------------|---------------|----------------|---------------|
| Sbf1   | 0.5803477      | 4.72245381    | 0.25363641    | 0.10856538    |
| Mea1   | -0.6138397     | 4.7171691     | 0.2537293     | 0.10856538    |
| Dhrs   | -0.7964249     | 3.07884382    | 0.2538371     | 0.10856538    |
| Trpm2  | 0.37823305     | 4.21362306    | 0.2539201     | 0.10856538    |
| Dil    | 0.44877401     | 6.13424862    | 0.2543729     | 0.1087115     |
| Dnlz   | -0.5241856     | 3.76247593    | 0.254841      | 0.10886406    |
| Pik3r6 | -1.1843619     | 1.61009317    | 0.2549867     | 0.10887883    |
| Cdt1   | -2.007257      | -0.1894261    | 0.2553902     | 0.10895791    |
| Gdap1l1| -0.5271943     | 3.45144051    | 0.2554622     | 0.10895791    |
| Chp1   | -0.2725953     | 7.55719185    | 0.2555056     | 0.10895791    |
| Trpm7  | 0.33375847     | 6.58706459    | 0.2559735     | 0.10906842    |
| Pcdha1 | 1.28516569     | 0.37164766    | 0.2559875     | 0.10906842    |
| Insig1 | 0.2993634      | 6.28332118    | 0.2566706     | 0.10931192    |
| Tmem129| -0.5714704     | 3.06683303    | 0.2574559     | 0.10959873    |
| Arsi   | -1.6028877     | 0.61766923    | 0.2578078     | 0.10961517    |
| Scl2a3 | 1.15577561     | 0.82570762    | 0.2578225     | 0.10961517    |
| Dscam  | 0.41762599     | 5.64786648    | 0.2578417     | 0.10961517    |
| Zcwpw1 | 1.34399571     | 0.6780819     | 0.2579422     | 0.10961517    |
| Zfp59  | -0.6176141     | 3.33000166    | 0.2582924     | 0.10971642    |
| 4933428C19I | -2.4119401 | -0.7452506 | 5.79367945 | 0.2591183 | 0.10997858 |
| Pdxd11 | -0.3784875     | 6.13967955    | 0.2591342     | 0.10997858    |
| Rps29  | -0.3811841     | 6.7774653     | 0.2596747     | 0.11016025    |
| Plec   | 0.44857861     | 6.34716249    | 0.2598245     | 0.11017611    |
| Gm13446| -0.7324202     | 2.27103668    | 0.2601101     | 0.11024947    |
| Psme1  | -0.546963      | 7.09575098    | 0.2604538     | 0.11029192    |
| Sgcp   | 2.4224471      | -0.352772     | 0.2605439     | 0.11029192    |
| Ccnt2  | 0.5599093      | 4.8957623     | 0.2605485     | 0.11029192    |
| Zufsp  | 0.78128908     | 3.44116249    | 0.2608889     | 0.11036603    |
| Unc13a | 0.7029245      | 6.96026908    | 0.2609484     | 0.11036603    |
| M1ap   | -3.8729694     | -1.5333077    | 0.2612165     | 0.11043006    |
| Kif21b | 0.54239725     | 5.75344638    | 0.2613253     | 0.11043006    |
| Rnf7   | -0.4281507     | 7.98133013    | 0.2616604     | 0.1104714     |
| Cog1   | 0.47607007     | 4.11567653    | 0.2619134     | 0.1104714     |
| Patl2  | -5.9946444     | -1.4006495    | 0.2619313     | 0.1104714     |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 | Value17 | Value18 | Value19 | Value20 | Value21 | Value22 | Value23 | Value24 | Value25 | Value26 | Value27 | Value28 | Value29 | Value30 | Value31 | Value32 | Value33 | Value34 | Value35 | Value36 | Value37 | Value38 | Value39 | Value40 | Value41 | Value42 | Value43 | Value44 | Value45 | Value46 | Value47 | Value48 | Value49 | Value50 | Value51 | Value52 | Value53 | Value54 | Value55 | Value56 | Value57 | Value58 | Value59 | Value60 | Value61 | Value62 | Value63 | Value64 | Value65 | Value66 | Value67 | Value68 | Value69 | Value70 | Value71 | Value72 | Value73 | Value74 | Value75 | Value76 | Value77 | Value78 | Value79 | Value80 | Value81 | Value82 | Value83 | Value84 | Value85 | Value86 | Value87 | Value88 | Value89 | Value90 | Value91 | Value92 | Value93 | Value94 | Value95 | Value96 | Value97 | Value98 | Value99 | Value100 |
| Gene   | Ccdc91   | Nkx2-1   | Zfp804a  | Mbd3    | A330032B11 | Rftn1   | Ndubf7   | Eci3    | 6330408A02 | Lix1l   | Ctl2a   | Wbp4    | SLC25A27 | Hspa4l  | Rd3     | Tce1a   | Sae1    | Etv4    | Scap    | Trmt44  | Cnot6l  | Ccdc82  | Eogt    | Asna1   | Hey1    | Ap5z1   | Gemin6  | Efna3   | Rab43   | Cops3   | Gpd1l   | Rarb    | Acap2   | Nav2    | Huwe1   | Papolg  | Apba3   | Trim62  | Caprin2 | Fat4    | Agt     | Mib1    | Impad1  |
|--------|----------|----------|----------|---------|------------|---------|----------|---------|------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Gene   | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
|--------|----|----|----|----|----|----|----|----|----|----|
| Mirg   | 0.38311929 | 4.18017385 | 5.6128031 | 0.0280559 | 0.11412663 |
| Cdk7   | 0.31534817 | 6.37575966 | 5.61062402 | 0.02808292 | 0.11417526 |
| Mcm5   | 0.40521749 | 4.62322859 | 5.6087242 | 0.02810651 | 0.11417526 |
| E030019B13 | 3.2090254 | -1.3835577 | 5.6074666 | 0.02812213 | 0.11417526 |
| Dnttip2 | -0.2880371 | 6.01952394 | 5.60704796 | 0.02812733 | 0.11417526 |
| Gtf2h4  | -1.0092044 | 1.44532771 | 5.60562071 | 0.02814508 | 0.11417526 |
| Mmadhc  | -0.4480581 | 5.8456984 | 5.60482801 | 0.02815494 | 0.11417526 |
| Polr2g  | -0.4383234 | 5.38000688 | 5.60407148 | 0.02816436 | 0.11417526 |
| Syne1   | 0.60370133 | 8.5747803 | 5.60375475 | 0.0281683 | 0.11417526 |
| Ift122  | 0.48064021 | 3.72749146 | 5.60339675 | 0.02817276 | 0.11417526 |
| Atp5k   | -0.4257115 | 5.92428404 | 5.59828457 | 0.0282365 | 0.11436267 |
| Ewsr1   | 0.45722393 | 7.69583582 | 5.59649156 | 0.0282589 | 0.11436267 |
| Zfp622  | -0.4373075 | 4.68996095 | 5.59628061 | 0.02826153 | 0.11436267 |
| Nol7    | -0.427251 | 5.77233861 | 5.59594684 | 0.0282657 | 0.11436267 |
| Nsa2    | -0.3320431 | 6.72256089 | 5.59217354 | 0.02831291 | 0.11448353 |
| Hspb3   | -1.3468823 | 0.34003333 | 5.5915856 | 0.02832027 | 0.11448353 |
| Slc12a2  | 0.32852934 | 6.5705165 | 5.59075844 | 0.02833064 | 0.11448353 |
| Rpl32   | -0.4825858 | 6.79791779 | 5.5806784 | 0.02838949 | 0.11467403 |
| Diap3   | 1.62071436 | 0.48172262 | 5.58406023 | 0.02841472 | 0.11472863 |
| Pus7l   | 1.04027097 | 1.59734635 | 5.58069757 | 0.02845703 | 0.1147994 |
| Pycr1   | 1.6095509 | 0.14120247 | 5.58025458 | 0.02846261 | 0.1147994 |
| Pcdhga2 | 0.91931081 | 2.1827769 | 5.57917007 | 0.02847628 | 0.1147994 |
| E2f1    | -0.7326759 | 1.94559375 | 5.578495 | 0.02848479 | 0.1147994 |
| 2610028E06l | 1.99922546 | -0.2727317 | 5.57801488 | 0.02849084 | 0.1147994 |
| Ap1ar   | -0.2689945 | 6.76523956 | 5.56945682 | 0.0285999 | 0.11518249 |
| Slc13a1 | 3.12506776 | -1.3495689 | 5.56863329 | 0.02860944 | 0.11518249 |
| Aldoc   | 0.37220554 | 7.18074671 | 5.56607682 | 0.02864185 | 0.11524338 |
| Vps13c  | 0.59216314 | 6.48139958 | 5.565585 | 0.02864809 | 0.11524338 |
| Csnr2   | 0.38299194 | 5.41423429 | 5.56399191 | 0.02866831 | 0.11524813 |
| Nup85   | 0.47772983 | 3.70621767 | 5.56196724 | 0.02869404 | 0.11524813 |
| Rmnd5b  | -0.3272769 | 4.74085418 | 5.5618578 | 0.02869543 | 0.11524813 |
| Sox7    | -1.2765914 | 0.68090057 | 5.56178695 | 0.02869633 | 0.11524813 |
| Tnik    | 0.50207467 | 7.36927851 | 5.55670369 | 0.0287607 | 0.11541392 |
| 5033406O09 | 3.15974249 | -0.5531035 | 5.55669322 | 0.02876118 | 0.11541392 |
| D6Wsu163e | 0.41545741 | 4.54406392 | 5.55277044 | 0.02881123 | 0.11555411 |
| Pex11b  | -0.4995228 | 5.43222602 | 5.5521068 | 0.02881971 | 0.11555411 |
| Lcp2    | -0.5481306 | 3.02345756 | 5.54935273 | 0.02885492 | 0.11564241 |
| Smox    | -0.6561 | 2.88869692 | 5.54853815 | 0.02886534 | 0.11564241 |
| Csm2    | 0.77734582 | 4.84623264 | 5.5453208 | 0.02890655 | 0.11570072 |
| Snrpe   | -0.4643215 | 4.52125606 | 5.54475243 | 0.02891384 | 0.11570072 |
| Mcm5    | -1.0503147 | 0.90631205 | 5.54155836 | 0.02895483 | 0.11570072 |
| Cdk7    | 0.32261575 | 6.25268145 | 5.54132989 | 0.02895777 | 0.11570072 |
| Mirg    | 1.54728702 | 1.06503662 | 5.54063772 | 0.02896666 | 0.11570072 |
| Gene     | Log2 Fold Change | p-value  | FDR    |
|----------|-----------------|----------|--------|
| Ppp2r3d  | 1.53            | 0.0287   | 0.1157 |
| Galnt7   | 5.54            | 0.0289   | 0.1157 |
| Glmn     | 0.63            | 0.0289   | 0.1157 |
| Scube3   | 1.54            | 0.0290   | 0.1157 |
| E130309F12 | 0.65  | 0.0290   | 0.1157 |
| Mc4r     | 2.42            | 0.0290   | 0.1157 |
| 1700008O03 | 0.63  | 0.0290   | 0.1157 |
| Spag16   | -1.24           | 0.0290   | 0.1157 |
| Zdhc6    | -0.49           | 0.0290   | 0.1157 |
| Lsm12    | -0.32           | 0.0290   | 0.1157 |
| Smarce1  | -0.33           | 0.0291   | 0.1157 |
| Pcdhb19  | 0.63            | 0.0291   | 0.1157 |
| Kdelc2   | 0.44            | 0.0291   | 0.1157 |
| Spns2    | 0.52            | 0.0291   | 0.1157 |
| Crtac1   | 0.68            | 0.0291   | 0.1157 |
| She      | -1.73           | 0.0292   | 0.1157 |
| Pip4k2a  | -0.25           | 0.0292   | 0.1157 |
| Adam4    | 1.48            | 0.0293   | 0.1157 |
| Herc3    | 0.49            | 0.0293   | 0.1157 |
| Iscu     | -0.43           | 0.0293   | 0.1157 |
| Cep164   | 0.51            | 0.0293   | 0.1157 |
| Serpinb9 | -0.46           | 0.0293   | 0.1157 |
| Slc35f3  | 0.34            | 0.0293   | 0.1157 |
| Hnrrpul1 | -0.32           | 0.0293   | 0.1157 |
| Tnn1     | 2.93            | 0.0294   | 0.1157 |
| Hmbs     | -0.56           | 0.0294   | 0.1157 |
| Gfm2     | 0.74            | 0.0294   | 0.1157 |
| Acs6     | 0.37            | 0.0295   | 0.1157 |
| Zgllp1   | 2.78            | 0.0295   | 0.1157 |
| Dock1    | 0.35            | 0.0295   | 0.1157 |
| Sars2    | -0.83           | 0.0295   | 0.1157 |
| Cc2d2a   | 0.29            | 0.0295   | 0.1157 |
| Pitpmn3  | 0.37            | 0.0295   | 0.1157 |
| Hyou1    | 0.48            | 0.0295   | 0.1157 |
| Rps7     | -0.33           | 0.0295   | 0.1157 |
| Inpp1    | 0.66            | 0.0295   | 0.1157 |
| Eva1b    | -1.17           | 0.0296   | 0.1157 |
| Efca10   | -1.85           | 0.0296   | 0.1157 |
| Tenm4    | 0.52            | 0.0296   | 0.1157 |
| Acer1    | 1.19            | 0.0296   | 0.1157 |
| Gene   | Mmp12   | Irgm2   | Ccdc115  | Igbp1   | Parl  | II17rb   | Hsd17b11   | Trim15 | Cnnm4   | Palm3   | Rictor  | Adgb   | Rbm17  | Phf5a   | KlrG2   | Zbttb16 | Slc8a2 | Cmc1   | Rab2a   | Liph   | Dnaaf1   | Nkain3  | Whsc1  | Gm14164 | Dennd5b   | A430107P09 | Jakmip1   | Trpv2   | 2610001J05F   | Serp1   | Gcnt1   | Ngfr   | Ifi2712a  | Gnas   | Gpr115   | Plxna2   | Als2   | 1300002E111   | St6galnac2   | Rps13   | Myh8   | Atp2b4   | Ferd3l   |
|--------|---------|---------|----------|---------|-------|----------|------------|--------|---------|---------|---------|--------|--------|---------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|
|        | -2.6357984 | -0.5136995 | -0.3654002 | -0.435075 | -0.536503 | 1.83978294 | -0.4517931 | 2.3476987 | 0.74449034 | -0.3654002 | 0.50499462 | 2.9524926 | -0.3203792 | -0.5467521 | -1.9000372 | 0.31757126 | 0.44355907 | -3.8513174 |
|        | -1.5258281 | 5.57099843 | 4.90636218 | 5.79648607 | 3.34903701 | -0.0002551 | 5.02271974 | -1.2295396 | 2.25433235 | 4.82400049 | 6.02346461 | -0.9356772 | 6.6248111 | 4.67160739 | -0.5935712 | 4.90617991 | 7.45255742 | -1.5862539 |
|        | 5.48584525 | 5.48527729 | 5.8212968  | 5.47942861 | 5.4788761 | 5.47894994 | 5.4730856  | 5.47987861 | 5.47987861 | 5.47987861 | 5.46990391 | 5.47975239 | 5.46975239 | 5.47987861 | 5.47987861 | 5.47987861 | 5.47987861 | 5.47987861 |
|        | 0.02968037 | 0.02968799 | 0.02972961 | 0.02976537 | 0.02977277 | 0.02977318 | 0.02984532 | 0.02988975 | 0.02990795 | 0.02990795 | 0.02989189 | 0.0298939  | 0.02990795 | 0.02990795 | 0.02990795 | 0.02990795 | 0.02990795 | 0.02990795 |
|        | 0.11667126 | 0.11670199 | 0.11667126 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 | 0.11670199 |

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**Note:** The table above lists the gene names and their corresponding log2 fold changes and p-values. The values represent the normalized expression levels with p-values indicating statistical significance.
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dsc3   | -3.4596677 | -1.3625269 | 5.42709199 | 0.03046809 | 0.11763701 |
| Ak3    | -0.3702975 | 8.15985105 | 5.42424838 | 0.0305068 | 0.11771909 |
| Cyp2e1 | 0.89680702 | 1.04891713 | 5.42159137 | 0.03054303 | 0.11771909 |
| Gm1564 | 1.07672793 | 1.12274621 | 5.4214044 | 0.03054558 | 0.11771909 |
| Isca1  | -0.251471 | 6.6628127 | 5.421184 | 0.03054858 | 0.11771909 |
| Dnm3os | 1.17866481 | 1.87406229 | 5.4207458 | 0.03055456 | 0.11771909 |
| Hs6st1 | 0.40745647 | 4.62727952 | 5.42024116 | 0.03056145 | 0.11771909 |
| 1700063D05 | 0.74633036 | 1.83602218 | 5.41744026 | 0.03059972 | 0.1177183 |
| Rpl13  | -0.4206986 | 7.37476852 | 5.41575302 | 0.03062279 | 0.1177183 |
| Cxx1b  | -0.4087239 | 5.87807493 | 5.41449517 | 0.03064001 | 0.1177183 |
| D8Ertd82e | 0.48988985 | 4.35499075 | 5.41406936 | 0.03064584 | 0.1177183 |
| Tm7sf2 | 1.3034576 | 1.14682049 | 5.41393658 | 0.03064766 | 0.1177183 |
| Drap1  | -0.6024648 | 3.96958289 | 5.41387225 | 0.03064854 | 0.1177183 |
| Ly96   | -0.6077346 | 3.76427015 | 5.41246229 | 0.03066786 | 0.1177183 |
| Ak6    | -0.7020389 | 2.76185152 | 5.41162163 | 0.03067938 | 0.1177183 |
| Rif    | 0.37036504 | 5.84215649 | 5.41133185 | 0.03068335 | 0.1177183 |
| Zfp963 | -0.6317197 | 2.52966685 | 5.40790729 | 0.03073036 | 0.11786891 |
| Fam135a | 0.3789102 | 5.76038231 | 5.40738553 | 0.03073753 | 0.11786891 |
| Slc2a3 | 0.37600029 | 5.24964401 | 5.4062289 | 0.03075342 | 0.11786891 |
| Atx7n  | 0.34063985 | 5.79439811 | 5.40530277 | 0.03076616 | 0.11786891 |
| Slc9a9 | 0.72705231 | 3.46094576 | 5.4047644 | 0.03077357 | 0.11786891 |
| Zfr2   | 0.5307192 | 3.76353164 | 5.40423553 | 0.03078084 | 0.11786891 |
| Tpo    | 3.07622375 | -2.0661477 | 5.4022772 | 0.03080781 | 0.11792606 |
| Parva  | -0.4007924 | 7.42564118 | 5.39967468 | 0.03084369 | 0.11801728 |
| Mir128-1 | 1.35667888 | 1.50571919 | 5.39662508 | 0.03088579 | 0.11813222 |
| Htr5b  | 2.36171967 | -0.3098906 | 5.39523903 | 0.03090494 | 0.11815935 |
| Aldh5a1 | 0.3547105 | 6.74500979 | 5.39362483 | 0.03092727 | 0.11819857 |
| Mettl10 | -0.487278 | 5.06836517 | 5.3918001 | 0.03095253 | 0.11824307 |
| 4993409K071 | 0.42713619 | 7.36388262 | 5.39066934 | 0.03096819 | 0.11824307 |
| Pcdh9  | 0.37218867 | 7.3123863 | 5.39016921 | 0.03097512 | 0.11824307 |
| Cox7a2 | -0.4685415 | 6.00398457 | 5.38718854 | 0.03101647 | 0.11830412 |
| Gdp2d2 | 0.85279085 | 2.27646471 | 5.38581808 | 0.0310355 | 0.11830412 |
| Rab11a | -0.2905518 | 6.56897151 | 5.38571884 | 0.03103688 | 0.11830412 |
| Tipr   | -0.3052662 | 6.36973233 | 5.38521598 | 0.03104387 | 0.11830412 |
| Hrh1   | 0.57743508 | 2.61130733 | 5.38466626 | 0.03105151 | 0.11830412 |
| Rnf217 | -0.3887369 | 4.29072797 | 5.38220967 | 0.03108567 | 0.11838474 |
| Pdxdc1 | -0.2709243 | 6.24525789 | 5.38067644 | 0.03110702 | 0.11838474 |
| Tomm22 | -0.4292401 | 5.96992969 | 5.38053979 | 0.03110892 | 0.11838474 |
| Trim65 | -0.5395514 | 4.06082884 | 5.37653375 | 0.03116478 | 0.11851353 |
| Plekhg3 | 0.46405612 | 3.33748503 | 5.37559809 | 0.03117784 | 0.11851353 |
| DQ267102 | 2.00895846 | -0.3130751 | 5.37551054 | 0.03117906 | 0.11851353 |
| Prkcdbp | -0.7248327 | 5.17983032 | 5.37356477 | 0.03120625 | 0.11856746 |
| Cerkl  | 1.59734405 | -0.1444446 | 5.37276274 | 0.03121746 | 0.11856746 |
| Gene  | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ak1   | -0.4538153 | 3.98628346 | 5.37171532 | 0.03123211 | 0.11857713 |
| Gas2  | 0.49690914 | 2.92876743 | 5.36588214 | 0.03131384 | 0.11874502 |
| Nhs   | 0.50422236 | 3.61151607 | 5.36567086 | 0.03131681 | 0.11874502 |
| Btaf1 | 0.43564926 | 6.20105171 | 5.3652662 | 0.03132249 | 0.11874502 |
| Shroom3| -0.5613168 | 2.89460344 | 5.36176436 | 0.03137169 | 0.11874502 |
| Snx6  | -0.3648165 | 6.40291174 | 5.36168194 | 0.03137285 | 0.11874502 |
| Ppp1r14c| -0.5068895 | 3.61494466 | 5.36159375 | 0.03137409 | 0.11874502 |
| Odf3b | -1.8540493 | 0.00321497 | 5.36087697 | 0.03138417 | 0.11874502 |
| Gm7102| 0.74975056 | 5.46312547 | 5.36062599 | 0.03138777 | 0.11874502 |
| Trmt6 | -0.3779796 | 4.64719553 | 5.36052057 | 0.03138918 | 0.11874502 |
| Zfp292| 0.36117931 | 7.57624967 | 5.35992531 | 0.03139756 | 0.11874502 |
| Prom2 | 3.59097129 | -1.9620922 | 5.35726776 | 0.03143499 | 0.11874589 |
| Setdb1| 0.52013039 | 4.51143675 | 5.35658637 | 0.0314446 | 0.11874589 |
| Eid2b | -0.3717671 | 4.42914406 | 5.35651997 | 0.03144553 | 0.11874589 |
| Trim43a| 1.50615601 | -0.2022028 | 5.35646687 | 0.03144628 | 0.11874589 |
| Mis18bp1| 1.00505402 | 1.0692987 | 5.35243204 | 0.03150323 | 0.11891359 |
| 1700085C21| 3.21795921 | -1.704339 | 5.34922343 | 0.0315486 | 0.11891359 |
| Meis2 | 0.33460908 | 6.62560199 | 5.34890248 | 0.03155314 | 0.11891359 |
| Khl17 | 0.77134486 | 3.50189579 | 5.3486315 | 0.03155698 | 0.11891359 |
| Msi1  | -0.8893026 | 1.91976697 | 5.34826826 | 0.03156212 | 0.11891359 |
| Cidea | -4.5771475 | -1.9543343 | 5.49333109 | 0.03157139 | 0.11891359 |
| Snx4  | -0.2967069 | 6.79050908 | 5.34712922 | 0.03157825 | 0.11891359 |
| Ltv1  | -0.3602357 | 4.79175737 | 5.34632626 | 0.03158963 | 0.11891359 |
| Socs2 | -0.4014918 | 5.3342442 | 5.34559803 | 0.03159995 | 0.11891359 |
| Arrdc4| -0.7262783 | 2.72777521 | 5.34371498 | 0.03162666 | 0.1189684 |
| Baz2b | 0.2639989 | 6.99648662 | 5.34130303 | 0.03166091 | 0.11905152 |
| Eny2  | -0.3045784 | 7.31050281 | 5.33498134 | 0.03175088 | 0.11934399 |
| Atpip1| -0.3608523 | 7.27261637 | 5.33295425 | 0.03177979 | 0.11936916 |
| R3hdm4| -0.3411564 | 7.68370037 | 5.33275259 | 0.03178266 | 0.11936916 |
| Taf5l | -0.389212 | 4.1315046 | 5.33146642 | 0.03180102 | 0.11936916 |
| Minpp1| 0.37913274 | 4.91685676 | 5.33109587 | 0.03180631 | 0.11936916 |
| Ubl4  | -0.2572213 | 6.74027419 | 5.32900772 | 0.03183615 | 0.11943538 |
| Gm1821| -0.4808607 | 4.9269643 | 5.32647518 | 0.03187239 | 0.11946278 |
| Pole3 | -0.6688373 | 2.9234239 | 5.32612764 | 0.03187736 | 0.11946278 |
| Stx3  | 0.3516144 | 4.78234578 | 5.32594028 | 0.03188005 | 0.11946278 |
| Coasy | 0.50004078 | 3.65694836 | 5.32437492 | 0.03190247 | 0.1195011 |
| 4930447N08| -2.0659388 | -0.703037 | 5.32309213 | 0.03192086 | 0.11952427 |
| Cept1 | 0.50872228 | 3.88413645 | 5.31673704 | 0.03201214 | 0.11981215 |
| Notch4| -0.9718647 | 1.02824809 | 5.31603775 | 0.03202221 | 0.11981215 |
| Mpc2  | -0.3468162 | 5.93669597 | 5.31397373 | 0.03205193 | 0.11987757 |
| Atpip3a| 0.26398779 | 7.15130974 | 5.31115691 | 0.03209254 | 0.11993046 |
| Abrac| -0.4827806 | 4.25687212 | 5.31015147 | 0.03210705 | 0.11993046 |
| Wdr16| -1.7480096 | -0.2244289 | 5.30984463 | 0.03211148 | 0.11993046 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  |
|--------|---------|---------|---------|---------|---------|
| Mrpl52 | -0.4501635 | 3.85555016 | 5.23035248 | 0.03324214 | 0.12213699 |
| Slc11a1 | 2.16641223 | -0.4192487 | 5.2322269 | 0.03325454 | 0.12213699 |
| Hspe1  | -0.3492359 | 6.34454213 | 5.23050496 | 0.03328042 | 0.12218622 |
| Zfp710 | -0.4496757 | 3.6340195 | 5.22910987 | 0.0333014 | 0.12218982 |
| Gins4  | -0.5428624 | 4.78379394 | 5.22819282 | 0.0333152 | 0.12218982 |
| Rnf208 | -0.3331203 | 4.92523072 | 5.22667183 | 0.0333381 | 0.12218982 |
| Gaa    | 0.41767901 | 5.861557 | 5.22658634 | 0.03339399 | 0.12218982 |
| Barx2  | -0.8284343 | 1.91715805 | 5.22629552 | 0.0334377 | 0.12218982 |
| Sgce   | -0.4106854 | 4.38630861 | 5.22326175 | 0.03338951 | 0.12225737 |
| Xpot   | 0.26892528 | 7.00853197 | 5.22305579 | 0.03339262 | 0.12225737 |
| Piezo1 | 0.96097714 | 1.30366693 | 5.22259016 | 0.03339965 | 0.12225737 |
| S100a9 | -1.906537 | 0.04202695 | 5.22045336 | 0.03343192 | 0.12228395 |
| Serf1  | -0.6147933 | 2.89627059 | 5.22039979 | 0.03343273 | 0.12228395 |
| Spc25  | -1.0501499 | 1.57807401 | 5.21901852 | 0.03345361 | 0.12228395 |
| Ccdec88a | 0.37807897 | 9.01307016 | 5.21880475 | 0.03345684 | 0.12228395 |
| Asic1  | 0.42379037 | 4.84553209 | 5.21529772 | 0.03350993 | 0.12240811 |
| Pml    | -0.3496604 | 4.59802592 | 5.21490995 | 0.03351581 | 0.12240811 |
| Phf20l1 | 0.40093138 | 5.71701924 | 5.21211396 | 0.03355821 | 0.12251729 |
| Vsnl1  | -0.3317871 | 12.0201766 | 5.21084497 | 0.03357747 | 0.12254195 |
| Larp7  | -0.317244 | 5.74968368 | 5.20801453 | 0.03362049 | 0.12260508 |
| Hpse   | 3.39180784 | -1.4409293 | 5.20748559 | 0.03362853 | 0.12260508 |
| Park2  | 0.59485066 | 3.05760267 | 5.20643017 | 0.03364459 | 0.12260508 |
| Clk1   | 0.49439228 | 6.46913764 | 5.20641391 | 0.03364484 | 0.12260508 |
| Wash   | 0.44870137 | 3.84877299 | 5.20111295 | 0.03372563 | 0.1228198 |
| Relt   | -1.0172887 | 1.18477798 | 5.2009028 | 0.03372884 | 0.1228198 |
| Hectd1 | 0.37816007 | 7.4322099 | 5.1960435 | 0.03374866 | 0.12284632 |
| Isg20l2 | -0.5302203 | 4.04315154 | 5.19722234 | 0.03378507 | 0.12290445 |
| Trpv3  | 1.99915311 | -0.520925 | 5.19691756 | 0.03378973 | 0.12290445 |
| Emc1   | 0.33156482 | 4.6600872 | 5.19596812 | 0.03380425 | 0.12291165 |
| Ptc1   | 0.34776338 | 4.75473834 | 5.19500073 | 0.03381906 | 0.12291985 |
| Scn8a  | 0.58330455 | 8.83649402 | 5.19127214 | 0.0338762 | 0.12303248 |
| Pcdhb6 | 1.42083981 | 0.85978822 | 5.19058792 | 0.03388669 | 0.12303248 |
| Dctn3  | -0.5154669 | 5.68725454 | 5.19052066 | 0.03388773 | 0.12303248 |
| Naa38  | -0.5886132 | 3.65795244 | 5.18944692 | 0.03390421 | 0.12304671 |
| Tmem177 | -0.5207358 | 3.68336884 | 5.18732176 | 0.03393685 | 0.12311957 |
| Szt2   | 0.59443775 | 3.93196404 | 5.18519691 | 0.03396953 | 0.12316509 |
| Fscn1  | -0.4137484 | 5.37348676 | 5.18487078 | 0.03397455 | 0.12316509 |
| Znrd1  | -0.4743333 | 4.5581472 | 5.18201675 | 0.0340185 | 0.12327262 |
| Olfm2  | -0.40271 | 5.18180106 | 5.18131113 | 0.03402938 | 0.12327262 |
| Cntnap3 | 0.83697204 | 1.93386135 | 5.17438313 | 0.03413638 | 0.12361452 |
| Hells  | 0.98291682 | 1.48357957 | 5.17264826 | 0.03416324 | 0.12366605 |
| Fzd3   | 0.31728304 | 7.99007841 | 5.17056797 | 0.03419547 | 0.12369283 |
| Dlx6os1 | 0.49124526 | 3.48672029 | 5.17054083 | 0.03419589 | 0.12369283 |
| Gene          | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  |
|--------------|---------|---------|---------|---------|---------|---------|---------|
| Ermard       | 0.46101258 | 3.92559189 | 5.16958439 | 0.03421072 | 0.1237008 |
| Rps6ka5      | 0.64424129 | 3.29476778 | 5.16763547 | 0.03424097 | 0.12372272 |
| Scl38a6      | 0.72682923 | 3.17223248 | 5.16719847 | 0.03424775 | 0.12372272 |
| Hist1h1b     | -2.6456395 | -1.8051552 | 5.1642988 | 0.03429282 | 0.12372272 |
| Grn3         | 0.34267072 | 5.65836054 | 5.16413011 | 0.03429544 | 0.12372272 |
| Kcnma1       | 0.44387184 | 7.25180016 | 5.1638258 | 0.03430017 | 0.12372272 |
| Mir350       | 2.57597638 | -2.0322071 | 5.16234758 | 0.03432318 | 0.12372272 |
| Astn1        | 0.4439874 | 8.03624661 | 5.16198852 | 0.03432877 | 0.12372272 |
| Hist1h2bg    | -1.2681146 | 0.15143316 | 5.16102265 | 0.03434381 | 0.12372272 |
| Taco1        | -0.8299775 | 1.58711343 | 5.15975202 | 0.03436361 | 0.12372272 |
| Gbp9         | -0.5839535 | 3.98239406 | 5.15910279 | 0.03437374 | 0.12372272 |
| Tbxas1       | 2.5930924 | -1.1977504 | 5.15892258 | 0.03437655 | 0.12372272 |
| 1700028K031  | 1.10160729 | 2.08229983 | 5.15823575 | 0.03438726 | 0.12372272 |
| Zfp605       | -0.3594555 | 4.69555872 | 5.15820173 | 0.03438779 | 0.12372272 |
| Dnajc15      | -0.4335298 | 4.25157973 | 5.15701214 | 0.03440636 | 0.12372272 |
| Peg3         | 0.4944631 | 8.84130121 | 5.15692428 | 0.03440773 | 0.12372272 |
| Gtf3c5       | -0.5184783 | 3.13958845 | 5.15621023 | 0.03441888 | 0.12372272 |
| Grik1        | 0.65393781 | 2.80971496 | 5.15515759 | 0.03443532 | 0.12373574 |
| Clb          | -0.4076689 | 5.79999966 | 5.15436152 | 0.03444776 | 0.12373574 |
| Twf1         | -0.360372 | 7.41799396 | 5.15192374 | 0.0344859 | 0.12377997 |
| Itgb3        | 0.69196335 | 2.3627299 | 5.15180031 | 0.03448783 | 0.12377997 |
| Akap6        | 0.58689869 | 8.14468972 | 5.15067395 | 0.03450546 | 0.12377997 |
| Xlr4b        | -2.5354669 | -0.3542584 | 5.15034454 | 0.03451062 | 0.12377997 |
| Al115009     | -1.2498915 | 0.65848687 | 5.14821017 | 0.03454408 | 0.1238485 |
| Rftn2        | -0.3829817 | 4.75878567 | 5.14751267 | 0.03455502 | 0.1238485 |
| Sipa111      | 0.48167024 | 8.88422936 | 5.14448783 | 0.0346025 | 0.12397334 |
| Zfp692       | 0.93889988 | 2.60333688 | 5.1435827 | 0.03461673 | 0.12397896 |
| Ecscr        | -2.1325432 | -0.6788505 | 5.14172374 | 0.03464597 | 0.12400865 |
| Uba1y        | 2.05792789 | -1.1650433 | 5.14144567 | 0.03465034 | 0.12400865 |
| Ankrd46      | -0.2975373 | 6.77853635 | 5.13350221 | 0.0347756 | 0.12436971 |
| Rapgef6      | 0.25983466 | 6.7995315 | 5.13343751 | 0.03477662 | 0.12436971 |
| 2810004N23   | -0.657208 | 4.55543889 | 5.13134491 | 0.03480971 | 0.1244426 |
| Cdca8        | -1.5091323 | 0.45926939 | 5.12924908 | 0.03484288 | 0.12448693 |
| Kcd2        | -0.4685229 | 3.31513064 | 5.12895569 | 0.03484752 | 0.12448693 |
| Palld        | -0.8083879 | 1.61944209 | 5.12794745 | 0.0348635 | 0.1244985 |
| Efr3b        | 0.46151891 | 6.81278274 | 5.1242065 | 0.03492283 | 0.1246387 |
| Gm10845      | 0.66522264 | 5.57078128 | 5.12261766 | 0.03494807 | 0.1246387 |
| Mien1        | -0.4768453 | 5.3825051 | 5.12184909 | 0.03496028 | 0.1246387 |
| Lipg         | 1.0315226 | 1.29673501 | 5.12173149 | 0.03496215 | 0.1246387 |
| Zhx1         | -0.2763683 | 8.00743807 | 5.12146729 | 0.03496635 | 0.1246387 |
| Gstcd        | 0.86477958 | 1.73762496 | 5.12003444 | 0.03498914 | 0.12467456 |
| Ccdc170      | -1.168468 | 0.66336915 | 5.11547985 | 0.0350617 | 0.12481721 |
| Tsen34       | -0.4547757 | 4.22262638 | 5.11521998 | 0.03506584 | 0.12481721 |
| Gene      | Myom2   | Mpdz    | Pfdn1   | Pcdhb4  | Rnf34   | Thoc7   | 9430037G07 | Rpl23   | Ddx28   | Polr2d  | Arhgap36 | Gabra2   | Nrcam   | Serpin1  | Rab3a    | 5031410I06R | Irf4    | Rnf24    | Rnf4    | A330076H08 | Sema3a   | Bank1    | Brpf1    | Nfs1     | Btbd1   | Psmd12  | Gkap1    | Vmn1r58  | Etf1     | Oxsr1    | Jph1     | Dcsc2c   | Abca13   | Nap1L5   | Cntnap4  | Myo5a    | Scn3a    | Mybpc3   | Mga      | Taf1b    | Fabp5    | Txn2     | Gabbr2   |
|-----------|---------|---------|---------|---------|---------|---------|------------|---------|---------|---------|----------|----------|---------|----------|---------|--------------|---------|----------|---------|------------|---------|---------|----------|----------|---------|---------|----------|----------|---------|---------|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|--------|--------|--------|--------|--------|--------|--------|
| Dck    | -0.4545635 | 4.99238985 | 5.05140255 | 0.03610043 | 0.1264927 |
| Mrpl13 | -0.3830699 | 4.72842033 | 5.05106264 | 0.03610633 | 0.1264927 |
| Tal2   | 4.60441698 | -2.0176317 | 5.04995907 | 0.03613053 | 0.12653224 |
| Smap2  | -0.2377327 | 7.69726981 | 5.04574433 | 0.03619414 | 0.12670968 |
| Wfqc18 | -2.1791301 | -0.5678841 | 5.04378388 | 0.03622657 | 0.12673015 |
| LOC1008622 | 0.72138899 | 2.56939459 | 5.04356794 | 0.03623014 | 0.12673015 |
| Samhd1 | -0.3031876 | 5.59678699 | 5.04304496 | 0.03623888 | 0.12673015 |
| Dctn5  | -0.3621668 | 6.19143987 | 5.04220356 | 0.03625273 | 0.12673634 |
| Clic3  | -1.8946594 | -0.5019365 | 5.04047807 | 0.03628133 | 0.12678835 |
| Tsc22d1 | -0.3395052 | 9.67766436 | 5.0382571 | 0.03631817 | 0.12687183 |
| Lars   | 0.32916026 | 5.12564252 | 5.03653852 | 0.03634671 | 0.12689146 |
| Rasgrf2 | 0.62908729 | 6.84330007 | 5.03567456 | 0.03636106 | 0.12689146 |
| Krba1  | 0.39336326 | 3.86026108 | 5.0354869 | 0.03636418 | 0.12689146 |
| Cers4  | 0.54435991 | 5.54302222 | 5.03439524 | 0.03638233 | 0.12689146 |
| Pcdh7  | 0.33907533 | 8.15354378 | 5.03402096 | 0.03638856 | 0.12689146 |
| Atp2b3 | 0.45307049 | 6.97569938 | 5.03318093 | 0.03640253 | 0.12689502 |
| Tmcc1  | -0.2255568 | 6.9406167 | 5.03128732 | 0.03643406 | 0.12693419 |
| Arhgap11a | -0.6056679 | 3.16691669 | 5.03073189 | 0.03644332 | 0.12693419 |
| Ttll5  | 0.34955144 | 5.3838044 | 5.02940724 | 0.03646554 | 0.12693419 |
| Col25a1 | 0.41615923 | 5.59930305 | 5.02915586 | 0.03646959 | 0.12693419 |
| Zfp781 | 0.39406581 | 6.24306577 | 5.02861767 | 0.03647856 | 0.12693419 |
| Ncor2  | 0.34657694 | 6.8300484 | 5.02424987 | 0.03655151 | 0.12713424 |
| Fancl  | -0.5245564 | 2.71916364 | 5.02362148 | 0.03656201 | 0.12713424 |
| Fam217b | 0.38552022 | 4.010407 | 5.01924584 | 0.03663528 | 0.12734379 |
| Fads3  | 0.46386085 | 3.57480128 | 5.01844882 | 0.03664864 | 0.12734505 |
| Ntla1  | -0.3975589 | 5.48359563 | 5.01667799 | 0.03667835 | 0.12740309 |
| Mlx    | -0.5482365 | 3.4619609 | 5.01464845 | 0.03671243 | 0.12742739 |
| Col9a3 | 0.79292498 | 2.69052244 | 5.01378549 | 0.03672694 | 0.12742739 |
| Anapc4 | 0.35053868 | 5.48691874 | 5.01291984 | 0.03674149 | 0.12742739 |
| Gpr64  | 1.38788008 | 1.17481948 | 5.01196104 | 0.03675762 | 0.12742739 |
| Rplp2  | -0.4791236 | 5.9945226 | 5.01102515 | 0.03677337 | 0.12742739 |
| Fdxt1  | 0.86958566 | 1.38721774 | 5.01084508 | 0.03677641 | 0.12742739 |
| Hspb2  | -1.0410868 | 1.09885574 | 5.00505384 | 0.03687405 | 0.12769726 |
| Ubqln1 | -0.2427299 | 7.10321703 | 5.00467951 | 0.03688037 | 0.12769726 |
| 3110057O12 | 0.48309977 | 3.00491508 | 5.00308381 | 0.03690733 | 0.12770069 |
| Amot   | 0.36242256 | 4.95629387 | 5.00273908 | 0.03691316 | 0.12770069 |
| Dctn1  | 0.59193466 | 3.89011164 | 5.00230674 | 0.03692047 | 0.12770069 |
| Esco1  | 0.34417371 | 5.65472216 | 4.99992381 | 0.03696079 | 0.12779503 |
| 4930519G04 | 0.75235929 | 2.31728697 | 4.9948587 | 0.03704666 | 0.12803719 |
| Ebp4.L14a | 0.72675103 | 1.53030088 | 4.9942516 | 0.03705697 | 0.12803719 |
| Atp13a2 | 0.55304368 | 4.17613048 | 4.99323759 | 0.0370742 | 0.12803898 |
| Arhgap25 | 0.50934178 | 3.64359913 | 4.99220292 | 0.03709178 | 0.12803898 |
| Gene   | Expression | Protein Interaction | Gene | Expression | Protein Interaction |
|--------|------------|---------------------|------|------------|---------------------|
| Agfg2  | -0.4312592 | 3.6596711 4.99154454 | 0.03710297 | 0.12803898 |                      |
| Napa   | -0.3252491 | 6.07574235 4.99114474 | 0.03710977 | 0.12803898 |                      |
| Actr1a | -0.2788307 | 6.16861461 4.98937936 | 0.03713981 | 0.1280975 |                      |
| Cntr4  | 0.44222489 | 5.2390942 4.98825629 | 0.03715894 | 0.12811836 |                      |
| Hebp2  | -0.4618383 | 3.40226414 4.98546989 | 0.03720644 | 0.12819932 |                      |
| Ptma   | -0.4561059 | 9.04456798 4.98524116 | 0.03721034 | 0.12819932 |                      |
| Fam193b| 0.6786066 | 3.14884989 4.98457635 | 0.03722169 | 0.12819932 |                      |
| Ube2i  | -0.3111484 | 7.37592641 4.98313543 | 0.03724629 | 0.12823896 |                      |
| Kif3c  | -0.3254694 | 6.41499445 4.98150218 | 0.0372742 | 0.12828996 |                      |
| Rab22a | -0.3050571 | 5.64374601 4.9785517 | 0.03732467 | 0.12841856 |                      |
| 95308080O11| -0.7210359 | 2.39329389 4.97549624 | 0.03737702 | 0.12844553 |                      |
| Ep300  | 0.31819557 | 8.10979494 4.97492086 | 0.03738689 | 0.12844553 |                      |
| Klhl30 | -1.040176 | 0.76413979 4.97490386 | 0.03738718 | 0.12844553 |                      |
| Kin    | 0.44373445 | 4.30831348 4.97419592 | 0.03739933 | 0.12844553 |                      |
| Noxred1| 2.78378979 | -0.8251038 4.97411519 | 0.03740071 | 0.12844553 |                      |
| Mbd1   | 0.39076047 | 4.27586133 4.97350504 | 0.03741119 | 0.12844553 |                      |
| Jakmip3| 0.65812884 | 4.95956322 4.96885464 | 0.03749111 | 0.12864918 |                      |
| App1   | 0.27333424 | 7.58721653 4.96811926 | 0.03750377 | 0.12864918 |                      |
| Dis3   | 0.38568518 | 3.97753571 4.96726204 | 0.03751853 | 0.12864918 |                      |
| Eif4e3 | -0.3278307 | 5.53897092 4.96700023 | 0.03752304 | 0.12864918 |                      |
| A230057D06| 0.70160559 | 3.28385481 4.96280863 | 0.03759531 | 0.12885187 |                      |
| Slc4a10| 0.30159462 | 8.98850848 4.96112807 | 0.03762433 | 0.12887413 |                      |
| Nbeal1 | 0.36650761 | 6.22589735 4.9600837 | 0.03764238 | 0.12887413 |                      |
| Mfsd8  | 0.46637007 | 3.26371644 4.95867204 | 0.03766679 | 0.12887413 |                      |
| Aqr    | 0.43264892 | 5.22653794 4.95846986 | 0.03767029 | 0.12887413 |                      |
| Gm16740| 2.07907596 | -0.806682 4.95815529 | 0.03767573 | 0.12887413 |                      |
| Nlrc5  | -1.5774812 | 0.00570201 4.95786569 | 0.03768075 | 0.12887413 |                      |
| Galnt5 | 2.37969737 | -1.0412029 4.95320945 | 0.03776142 | 0.12906879 |                      |
| Ppm1e  | 0.38942557 | 8.03567188 4.95289908 | 0.03776681 | 0.12906879 |                      |
| Cox6a1 | -0.337213 | 6.82536447 4.95170449 | 0.03778754 | 0.12906879 |                      |
| Ppard  | -0.3356664 | 5.18174367 4.95149901 | 0.03779111 | 0.12906879 |                      |
| Nra6a1 | 0.60405303 | 3.09289363 4.95036836 | 0.03781075 | 0.12906879 |                      |
| Rfc4   | -0.711755 | 1.9149827 4.95002467 | 0.03781672 | 0.12906879 |                      |
| Dynch1 | 0.85568642 | 9.33827441 4.94893444 | 0.03783567 | 0.12908849 |                      |
| Epha5  | 0.39402837 | 6.13213742 4.94754882 | 0.03785977 | 0.12909881 |                      |
| Atg4c  | -0.3509215 | 6.30646857 4.94724514 | 0.03786506 | 0.12909881 |                      |
| Ptn6n  | -1.1201611 | 0.89948557 4.94523799 | 0.0379 | 0.12916547 |                      |
| Atg9b  | 1.43376874 | 0.83379581 4.94460805 | 0.03791098 | 0.12916547 |                      |
| Arhgef16| 3.07380216 | -0.9134374 4.94362595 | 0.03792821 | 0.12917886 |                      |
| Tnfrsf23| -0.9185527 | 1.09561265 4.94200165 | 0.03795643 | 0.12919218 |                      |
| Abcd4  | 0.78037371 | 1.46587845 4.94188946 | 0.03795839 | 0.12919218 |                      |
| Sp8    | 1.11141626 | 0.59072781 4.94005691 | 0.03799038 | 0.12925617 |                      |
| Eif5a  | -0.5350424 | 7.19992216 4.93758903 | 0.03803352 | 0.129358 |                      |
| Gene          | 0.49136451 | 3.15028174 | 4.93154933 | 0.3813932 | 0.12956376 |
|--------------|------------|------------|------------|------------|------------|
| Rhox8        | 0.96244192 | 1.56502683 | 4.9300079  | 0.3816638  | 0.12956376 |
| Naa15        | 0.25832139 | 6.62462264 | 4.92931067 | 0.3817862  | 0.12956376 |
| Cluh         | 0.36734299 | 5.1625154  | 4.92928019 | 0.3817916  | 0.12956376 |
| Pcsk2        | -0.3065467 | 6.61854869 | 4.92917425 | 0.3818102  | 0.12956376 |
| Gm269        | 1.40553464 | 0.04466497 | 4.92641845 | 0.3822947  | 0.12963395 |
| Pglyrp3      | -4.4865024 | -2.0173844 | 5.05183559 | 0.3823793  | 0.12963395 |
| Gm154       | 0.80870911 | 1.94279585 | 4.92515396 | 0.3825172  | 0.12963395 |
| Elmo1        | -0.3031985 | 7.15388229 | 4.92449516 | 0.3826332  | 0.12963395 |
| Cdc37        | -0.3891385 | 5.08594465 | 4.92326366 | 0.3828501  | 0.12963395 |
| Elmo3        | -0.8956038 | 1.38740745 | 4.92309251 | 0.3828803  | 0.12963395 |
| Hapln1       | 0.57840871 | 3.8075648  | 4.92241723 | 0.3829993  | 0.12963395 |
| Sirpa        | 0.3053282 | 7.17435197 | 4.92060693 | 0.3833186  | 0.12969461 |
| Blzf1        | -0.3897016 | 4.90929891 | 4.9199002  | 0.3834433  | 0.12969461 |
| Sertad1      | -0.7130147 | 2.92452952 | 4.91703367 | 0.3839497  | 0.12969519 |
| Terf1        | 0.46746609 | 3.52866775 | 4.91667748 | 0.3840127  | 0.12969519 |
| Foxd2os      | -0.6656857 | 2.51119551 | 4.9164308  | 0.3840563  | 0.12969519 |
| Zswim8       | 0.38826632 | 5.28010502 | 4.91585121 | 0.3841588  | 0.12969519 |
| Setmar       | -0.772761  | 2.36982812 | 4.91559789 | 0.3842037  | 0.12969519 |
| Sptbn1       | 0.48902377 | 10.099249  | 4.91539532 | 0.3842395  | 0.12969519 |
| Tesc         | -0.5639327 | 3.01370342 | 4.91425173 | 0.3844419  | 0.12971881 |
| Rhdh18-ps    | 1.06619097 | 0.35944236 | 4.91248306 | 0.3847552  | 0.12977982 |
| Atp6ap1l     | 1.26994268 | 1.11229166 | 4.91063904 | 0.3850821  | 0.12983658 |
| Gm5124       | -0.3453449 | 5.01792414 | 4.90932707 | 0.3853149  | 0.12983658 |
| A330049N07   | 1.40515418 | -0.2488455 | 4.90929211 | 0.3853211  | 0.12983658 |
| Gm12338      | -0.4859379 | 4.54261356 | 4.90731362 | 0.3856725  | 0.12987194 |
| Card10       | 1.29629713 | 0.38311934 | 4.90646546 | 0.3858233  | 0.12987194 |
| Tspan14      | 0.40288386 | 3.50768409 | 4.90646236 | 0.3858238  | 0.12987194 |
| A530058N18   | 0.94898781 | 1.14834101 | 4.90489071 | 0.3861033  | 0.12992138 |
| Arrdc2       | -0.9438829 | 1.72076775 | 4.90411806 | 0.3862408  | 0.12992301 |
| Amy1         | 0.39026844 | 4.31067599 | 4.90256336 | 0.3865177  | 0.1299715 |
| Ptgfnn       | -0.3169034 | 5.24899347 | 4.90053351 | 0.3868794  | 0.13001406 |
| Pufo6        | -0.3114674 | 6.5038711  | 4.90036384 | 0.3869097  | 0.13001406 |
| Sgk1         | -0.3021735 | 6.58128598 | 4.89920738 | 0.3871166  | 0.13003877 |
| Serpina3g    | -2.3442616 | -0.4356293 | 4.89349745 | 0.3881364  | 0.13033686 |
| ES300011L22f | -0.5147827 | 2.52860136 | 4.89200427 | 0.3884038  | 0.13038194 |
| Dnajc11      | -0.441872  | 3.98636206 | 4.88891646 | 0.3889573  | 0.13051097 |
| Rmnd5a       | -0.2923303 | 7.57797669 | 4.88837426 | 0.3890546  | 0.13051097 |
| Ccdc167      | 0.29597266 | 5.38308184 | 4.88573761 | 0.3895281  | 0.13062507 |
| Col11a2      | 1.25357849 | 0.10976493 | 4.88369032 | 0.3898962  | 0.13070377 |
| Apobec3      | -0.7494387 | 2.31423405 | 4.88226149 | 0.3901534  | 0.13070692 |
| Gene | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mnt  | 0.33567056 | 5.01566522 | 4.88199265 | 0.03902018 | 0.13070692 |
| Ccdc102a | -0.9920521 | 1.41072203 | 4.87949986 | 0.0390651 | 0.13070692 |
| Uhrf2 | 0.33053807 | 5.29468683 | 4.87824981 | 0.03908764 | 0.13070692 |
| Zeb2os | 0.80161291 | 1.51606069 | 4.87767889 | 0.0390794 | 0.13070692 |
| Ckap4 | -0.4421311 | 5.1576854 | 4.87722818 | 0.03910608 | 0.13070692 |
| Epm2aip1 | 0.41909063 | 7.97617275 | 4.87698006 | 0.03911056 | 0.13070692 |
| Gp5 | 2.63174855 | -1.3607598 | 4.87681085 | 0.03911361 | 0.13070692 |
| Sycp2 | 0.96700464 | 2.48123862 | 4.87635817 | 0.03912179 | 0.13070692 |
| Zkscan6 | 0.61035168 | 2.9109064 | 4.8762355 | 0.039124 | 0.13070692 |
| Gm7609 | 1.57273566 | -0.6325316 | 4.87148266 | 0.03920995 | 0.13094939 |
| Dhx35 | 0.5133921 | 2.62896772 | 4.86997252 | 0.0392373 | 0.13098048 |
| Dscaml1 | 0.73185854 | 3.82701036 | 4.86949257 | 0.039246 | 0.13098048 |
| AF357426 | 1.72008769 | -0.8974646 | 4.86607573 | 0.03930798 | 0.13109914 |
| Lif | 1.97304357 | -0.9504071 | 4.86584233 | 0.03931222 | 0.13109914 |
| Ostc | -0.4250405 | 4.63120836 | 4.8653202 | 0.03932171 | 0.13109914 |
| 1810026J23F | -0.3276624 | 5.9224383 | 4.86384672 | 0.03934848 | 0.13112209 |
| Gm10432 | 1.09674478 | 1.42658681 | 4.86282165 | 0.03936712 | 0.13112209 |
| C4a | 1.74364253 | -0.5173054 | 4.86273211 | 0.03936875 | 0.13112209 |
| Jagn1 | 0.34901223 | 4.86171929 | 4.86026052 | 0.03941373 | 0.1312273 |
| Wdr13 | 0.22863469 | 6.73099886 | 4.85783973 | 0.03945785 | 0.13130758 |
| Prr13 | -0.385506 | 5.95939695 | 4.85676692 | 0.03947742 | 0.13130758 |
| Klhl25 | -0.6231536 | 1.87790418 | 4.85630444 | 0.03948174 | 0.13130758 |
| Cccdc151 | -0.9975536 | 0.63614155 | 4.85599729 | 0.03949147 | 0.13130758 |
| Ch1l | 0.48165989 | 7.47835662 | 4.85352355 | 0.03953665 | 0.13140248 |
| Dmgdh | -1.4636383 | 0.06703914 | 4.85296621 | 0.03954684 | 0.13140248 |
| Rpl18a | -0.4488523 | 7.4643089 | 4.85167529 | 0.03957045 | 0.13143634 |
| Ifi27 | -0.5091881 | 4.907542 | 4.84975711 | 0.03960556 | 0.13150837 |
| Id4 | -0.3682035 | 5.33668979 | 4.84686577 | 0.03965855 | 0.1316397 |
| Peli | -0.3005534 | 5.95279181 | 4.84377812 | 0.03971523 | 0.13178318 |
| Man1a | 0.44935763 | 5.19943443 | 4.84265768 | 0.03973582 | 0.13180161 |
| Ckap2l | -0.9732633 | 0.9087401 | 4.84201169 | 0.03974769 | 0.13180161 |
| Ppp2r5d | -0.3763455 | 5.52700385 | 4.83858229 | 0.03981081 | 0.13193019 |
| Naca | -0.3218603 | 7.84367929 | 4.83844142 | 0.03981341 | 0.13193019 |
| Ahr | 0.48599701 | 4.19486177 | 4.8367046 | 0.03984542 | 0.13199047 |
| Fsd2 | 2.97321521 | -1.7199672 | 4.83573508 | 0.0398633 | 0.13199047 |
| Ankrd11 | 0.24763161 | 8.84875745 | 4.83526227 | 0.03987202 | 0.13199047 |
| Tusc5 | -2.3650402 | 0.35486227 | 4.83121552 | 0.03994678 | 0.13219327 |
| Cygb | -0.4617561 | 4.10908569 | 4.8280198 | 0.04000593 | 0.1322816 |
| Etl4 | 0.26416364 | 7.93056652 | 4.82794035 | 0.0400074 | 0.1322816 |
| Gm9962 | 1.0700002 | 0.50648119 | 4.82726622 | 0.04001989 | 0.1322816 |
| Arl9 | -3.2823715 | -1.9153914 | 4.82685602 | 0.04002749 | 0.1322816 |
| A450353 | 0.9600235 | 2.02107079 | 4.8258168 | 0.04004676 | 0.13229472 |
| Slc2a13 | 0.33108395 | 6.84437649 | 4.82518539 | 0.04005847 | 0.13229472 |
| Gene   | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   |
|--------|----------|----------|----------|----------|----------|----------|
| 1700048O20 | -0.6809041 | 1.87947772 | 4.82440881 | 0.04007288 | 0.1322977 |
| Dhodh  | -0.7657787 | 2.11767985 | 4.82253042 | 0.04010776 | 0.13236824 |
| Mif    | -0.4177526 | 5.21874154 | 4.82114848 | 0.04013344 | 0.13240839 |
| Gm16982 | 1.72849695  | 0.00829823 | 4.82000898 | 0.04015463 | 0.13243369 |
| Rps5   | -0.4063976 | 5.76664419 | 4.81869122 | 0.04017916 | 0.13246997 |
| Etnk1  | 0.24217434 | 8.62575492 | 4.81711642 | 0.04020848 | 0.13252205 |
| Pde7a  | 0.40890094 | 5.13023311 | 4.81574219 | 0.04023409 | 0.13253276 |
| Itga7  | 1.82015171 | -0.3260729 | 4.81495225 | 0.04024883 | 0.13253276 |
| Rsf1   | 0.35201432 | 7.58645342 | 4.81476482 | 0.04025232 | 0.13253276 |
| Gja6   | 1.86250105 | -1.1012232 | 4.81188373 | 0.04030611 | 0.13262052 |
| Dock7  | 0.35322953 | 6.05798925 | 4.81178481 | 0.04030795 | 0.13262052 |
| Ccl27a | -0.3951223 | 5.16769628 | 4.81088011 | 0.04032486 | 0.13262052 |
| Ppa1   | -0.3294973 | 5.77835253 | 4.81043756 | 0.04033313 | 0.13262052 |
| Gm16861| 0.74205731 | 2.44946528 | 4.80890465 | 0.0403618 | 0.13267026 |
| Tubgcp2| 0.41049308 | 3.66953994 | 4.8064684 | 0.04040742 | 0.13277564 |
| Dcx    | 0.3930276 | 5.69217413 | 4.80096049 | 0.04051178 | 0.13303675 |
| Snx5   | -0.2539454 | 7.0692407 | 4.79954875 | 0.0405373 | 0.13303675 |
| A930017M0 | 0.60221654 | 2.61294087 | 4.79939783 | 0.04054014 | 0.13303675 |
| Arhgdia| -0.4294917 | 8.02589297 | 4.79934077 | 0.04054121 | 0.13303675 |
| Med19  | -0.3964609 | 4.61208039 | 4.79633495 | 0.04059778 | 0.13317778 |
| Smad1  | -0.2830691 | 5.76445627 | 4.79558611 | 0.04061189 | 0.13317946 |
| Fkbp1a | -0.3226472 | 9.78767574 | 4.79434854 | 0.04063522 | 0.13319882 |
| Rn4.5s | 1.02435615 | 0.52362576 | 4.7938303 | 0.04064499 | 0.13319882 |
| Ubqln4 | -0.3113778 | 6.15936586 | 4.79146066 | 0.04068971 | 0.13330078 |
| Lrrfip1| 0.30511774 | 5.98272944 | 4.79065953 | 0.04070484 | 0.13330577 |
| Pgm2   | 0.39507447 | 4.06380993 | 4.78989712 | 0.04071925 | 0.13330838 |
| Bub1   | 1.67404985 | 0.38533996 | 4.78824285 | 0.04075053 | 0.13331258 |
| H2afz  | -0.3007146 | 7.20723172 | 4.78811735 | 0.04075299 | 0.13331258 |
| Rnaseh2a| -0.7364204 | 2.75816186 | 4.78767021 | 0.04076136 | 0.13331258 |
| Zfp239 | -0.3106633 | 5.66201513 | 4.78519172 | 0.04080829 | 0.13340076 |
| Cdkn1b | -0.4578369 | 4.09793414 | 4.78480812 | 0.04081556 | 0.13340076 |
| Fbxw17 | -0.8054554 | 2.00307824 | 4.78361346 | 0.04083821 | 0.13343025 |
| Bbs12  | 0.8473961 | 1.27863567 | 4.78234142 | 0.04086234 | 0.13343511 |
| Gbp8   | -0.9947996 | 1.80266192 | 4.78181089 | 0.04087224 | 0.13343511 |
| Stx18  | -0.5406217 | 3.37978799 | 4.78138129 | 0.04088056 | 0.13343511 |
| Dicer1 | 0.33209082 | 6.29375759 | 4.77984219 | 0.04090979 | 0.13348604 |
| Taf9   | -0.3093625 | 5.52362682 | 4.77829718 | 0.04093916 | 0.13350591 |
| Pus10  | 0.58032112 | 3.92504545 | 4.77808784 | 0.04094314 | 0.13350591 |
| Abcb10 | 0.48874907 | 3.68773731 | 4.7768795 | 0.04096613 | 0.13350969 |
| Ophn1  | 0.40589646 | 4.9296589 | 4.77659406 | 0.04097156 | 0.13350969 |
| Rab13  | -0.5747354 | 4.24254159 | 4.77565271 | 0.04098948 | 0.13352367 |
| Lyrm2  | -0.4098072 | 4.85568116 | 4.77460963 | 0.04100935 | 0.13353795 |
| Rbm12b1| 0.45480064 | 4.6326872 | 4.77399152 | 0.04102113 | 0.13353795 |
| Gene   | Log2 Fold Change | Gene Expression | p-value | Adjusted p-value |
|--------|-----------------|-----------------|---------|-----------------|
| Lztr1  | 0.26319203      | 5.7292613       | 0.04103702 | 0.1335453 |
| Aldh1a2| -0.5324262      | 9.18687312      | 0.04108259 | 0.1336492 |
| Krt22  | -0.3080981      | 6.63809537      | 0.04112762 | 0.1337159 |
| Trappc2| -0.3954307      | 3.89742879      | 0.04113423 | 0.1337159 |
| Tfam   | -0.3699413      | 4.82690855      | 0.04114383 | 0.1337159 |
| Srxn1  | -0.2596603      | 6.28059447      | 0.04118426 | 0.13379803 |
| Pcdhb16| 0.48599059      | 4.67358307      | 0.04129571 | 0.13392513 |
| Krt22  | -0.3080981      | 6.63809537      | 0.04112762 | 0.1337159 |
| Trappc2| -0.3954307      | 3.89742879      | 0.04113423 | 0.1337159 |
| Tfam   | -0.3699413      | 4.82690855      | 0.04114383 | 0.1337159 |
| Srxn1  | -0.2596603      | 6.28059447      | 0.04118426 | 0.13379803 |
| Pcdhb16| 0.48599059      | 4.67358307      | 0.04129571 | 0.13392513 |
| Krt22  | -0.3080981      | 6.63809537      | 0.04112762 | 0.1337159 |
| Trappc2| -0.3954307      | 3.89742879      | 0.04113423 | 0.1337159 |
| Tfam   | -0.3699413      | 4.82690855      | 0.04114383 | 0.1337159 |
| Srxn1  | -0.2596603      | 6.28059447      | 0.04118426 | 0.13379803 |
| Pcdhb16| 0.48599059      | 4.67358307      | 0.04129571 | 0.13392513 |
| Gene   | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   |
|--------|----------|----------|----------|----------|----------|----------|
| Trim30a| 0.49005856 | 3.79956859 | 4.7233361 | 0.04199963 | 0.13474844 |
| Farsa  | 0.90093662 | 1.36654708 | 4.72270381 | 0.04201201 | 0.13474844 |
| Pcdhga1| 0.84482712 | 1.75969594 | 4.72099619 | 0.04206312 | 0.13483578 |
| Shisa7 | 0.4309424  | 6.36471315 | 4.71901805 | 0.04208427 | 0.13483578 |
| Elp5   | -0.411782  | 4.81554388 | 4.71876534 | 0.04208923 | 0.13483578 |
| C1galt1| 0.44268115 | 4.66589561 | 4.71784663 | 0.04210726 | 0.13483578 |
| Mettl9 | -0.3506532 | 4.83069938 | 4.71602082 | 0.04214312 | 0.13483578 |
| Sdr39u1| -0.3754041 | 4.98892235 | 4.71516216 | 0.04216821 | 0.13483578 |
| Sult1a1| -0.5622805 | 5.7934373  | 4.71334982 | 0.04219566 | 0.13483578 |
| App    | 0.27500677 | 8.66509883 | 4.71277293 | 0.04220701 | 0.13483578 |
| Tsc22d4| -0.4724201 | 3.17516185 | 4.71231465 | 0.04221603 | 0.13483578 |
| Otof   | 0.84564092 | 2.91644019 | 4.71224612 | 0.04221738 | 0.13483578 |
| Olfr1033| -0.476907  | 3.91660529 | 4.7121534  | 0.04221921 | 0.13483578 |
| Golga7 | -0.3103947 | 7.26421945 | 4.7120078  | 0.04222208 | 0.13483578 |
| Rsad1  | -0.5261342 | 3.20766424 | 4.71181182 | 0.04222594 | 0.13483578 |
| Scn1a  | 0.41014319 | 7.07931107 | 4.71150608 | 0.04223196 | 0.13483578 |
| Atp5j  | -0.3388318 | 7.73128512 | 4.7073048  | 0.04231482 | 0.13505498 |
| Lins   | 0.525249   | 3.94188219 | 4.70598132 | 0.04234096 | 0.13505498 |
| Gls2   | 0.70906026 | 2.43157506 | 4.70529418 | 0.04235454 | 0.13505498 |
| Tomm34 | -0.3185229 | 5.83412048 | 4.70523216 | 0.04235577 | 0.13505498 |
| Slc4a9 | -3.8544549 | -1.3931945 | 4.70435859 | 0.04237304 | 0.1350608 |
| Klf13  | 0.27256836 | 7.23167154 | 4.70326248 | 0.04239472 | 0.13509124 |
| Ptprd  | 0.38862463 | 8.31428597 | 4.69741219 | 0.04251066 | 0.13538248 |
| Timmdc1| -0.4037957 | 4.29248554 | 4.69725584 | 0.04251376 | 0.13538248 |
| Pcdhb21| 0.99603821 | 1.24682171 | 4.69469324 | 0.04256466 | 0.13550053 |
| Ndufa3 | -0.4421882 | 4.66141307 | 4.69383692 | 0.04258169 | 0.13551068 |
| Cecr6  | 0.54873146 | 4.67755729 | 4.69245488 | 0.04260918 | 0.13555414 |
| Mir8115| 1.84767692 | -1.2524233 | 4.6897864  | 0.04266232 | 0.13567914 |
| Ubtf   | -0.292315 | 5.83029552 | 4.68622973 | 0.04273327 | 0.13584943 |
| Tnfsf12| -0.5215668 | 3.32585799 | 4.68398429 | 0.04277813 | 0.13584943 |
| Cyp2c44| 2.73895661 | -0.9963417 | 4.68390017 | 0.04277982 | 0.13584943 |
| Kif21a | 0.43317233 | 8.49741799 | 4.68381468 | 0.04278152 | 0.13584943 |
| Reep5  | -0.2757065 | 8.46075903 | 4.6836301  | 0.04278521 | 0.13584943 |
| Palmd  | -0.3842069 | 5.60607399 | 4.68157025 | 0.04282642 | 0.13593621 |
| Ppara  | 0.53238543 | 4.0984941  | 4.67968896 | 0.0428641 | 0.13601172 |
| Polr2a | 0.27989654 | 7.30718596 | 4.67648344 | 0.04292838 | 0.13611773 |
| Ube2e1 | -0.4920709 | 4.09330134 | 4.67614825 | 0.04293511 | 0.13611773 |
| Dsn1   | 0.79438786 | 1.38617472 | 4.67544536 | 0.04294922 | 0.13611773 |
| Adipor2| -0.3787115 | 4.69808897 | 4.67518234 | 0.0429545 | 0.13611773 |
| Gstt1  | -0.5932401 | 4.87976353 | 4.6741252 | 0.04297574 | 0.13611773 |
| Isca2  | -0.324148  | 5.90232956 | 4.67170136 | 0.04302448 | 0.13611773 |
| Zfp473 | 2.20465488 | -0.3005322 | 4.67157937 | 0.04302694 | 0.13611773 |
| Igsf11 | 0.31677578 | 5.86683619 | 4.67155621 | 0.0430274 | 0.13611773 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  |
|-------|---------|---------|---------|---------|---------|
| Bre   | -0.3755052 | 4.14336878 | 4.67076827 | 0.04304326 | 0.13611773 |
| Tacr2 | 1.89104384 | 0.30130535 | 4.66985248 | 0.0430617 | 0.13611773 |
| Mfhas1 | 0.32175719 | 5.25303798 | 4.66976777 | 0.04306341 | 0.13611773 |
| Myo16 | 0.59738217 | 4.34876829 | 4.66941871 | 0.04307044 | 0.13611773 |
| Dsg3  | -1.9371948 | -0.7353267 | 4.66903569 | 0.04307816 | 0.13611773 |
| Eif3a | 0.33697514 | 9.48235141 | 4.66718863 | 0.04311539 | 0.13616926 |
| Whrn  | -0.5521656 | 3.21545349 | 4.66618531 | 0.04313564 | 0.13616926 |
| E030013I19R | -2.3592721 | -0.3495429 | 4.66615894 | 0.04313617 | 0.13616926 |
| Ckar  | -1.9976044 | -0.7734753 | 4.66338125 | 0.04319227 | 0.13630242 |
| Fam65b | 0.40198062 | 5.89319166 | 4.66209187 | 0.04321834 | 0.13634076 |
| Paip2 | -0.2838052 | 7.53393563 | 4.6602372 | 0.04325586 | 0.13641522 |
| Slc44a2 | 0.34864986 | 5.08209519 | 4.65422832 | 0.04337771 | 0.13675545 |
| Eef1b2 | -0.3858376 | 7.031599 | 4.65212203 | 0.04342051 | 0.13681045 |
| Kat7  | -0.273963 | 5.9074198 | 4.65150616 | 0.04343034 | 0.13681045 |
| Ehd1  | -0.5608951 | 3.5760169 | 4.65130847 | 0.04343706 | 0.13681045 |
| Casp9 | -0.3732539 | 4.67728021 | 4.64943852 | 0.04347511 | 0.1368863 |
| Kcna4 | 0.49436123 | 5.66132831 | 4.64684424 | 0.04352797 | 0.1370087 |
| Mrm1  | -0.4459436 | 3.09996865 | 4.64443612 | 0.04357111 | 0.13708472 |
| Nedd8 | -0.5124155 | 5.60706888 | 4.64377388 | 0.04359063 | 0.13708472 |
| Tmem8 | 0.56989914 | 2.32998663 | 4.64360348 | 0.04359411 | 0.13708472 |
| Plekh1 | 1.63109025 | -0.0644064 | 4.64081133 | 0.04365118 | 0.13722014 |
| Trappc1 | -0.3847385 | 5.99795277 | 4.63812263 | 0.04370622 | 0.13734907 |
| Al846148 | 0.5048535 | 2.95781087 | 4.63713509 | 0.04372646 | 0.13736859 |
| Surf1  | -0.4553281 | 4.01917473 | 4.63612677 | 0.04374713 | 0.13738947 |
| Morc2a | 0.25865492 | 6.17560802 | 4.63333338 | 0.04380446 | 0.13752542 |
| Tmem40 | -1.9604765 | -0.055011 | 4.63219064 | 0.04382793 | 0.13755134 |
| Ndufa4 | -0.3617338 | 7.34644343 | 4.63148558 | 0.04384242 | 0.13755134 |
| Rpl10 | -0.4681977 | 7.8633684 | 4.63088174 | 0.04385484 | 0.13755134 |
| Zfp652 | -0.2957687 | 6.34153792 | 4.62808125 | 0.04391247 | 0.13768801 |
| Tmem230 | -0.292612 | 6.66927818 | 4.62683927 | 0.04393806 | 0.13772416 |
| Scarna3a | 2.01844398 | -0.9411287 | 4.62480749 | 0.04397995 | 0.13778756 |
| Tead3  | -0.6231234 | 2.73021835 | 4.62449421 | 0.04398642 | 0.13778756 |
| Sccpdh | -0.2494357 | 6.28810619 | 4.6230927 | 0.04401535 | 0.1377944 |
| Cldn11 | 0.50585886 | 6.53876508 | 4.62176392 | 0.0440428 | 0.1377944 |
| Psg16 | -1.0769896 | 1.38269931 | 4.62164151 | 0.0440533 | 0.1377944 |
| 5430417L22f | 0.25828773 | 6.02537351 | 4.62086446 | 0.04406139 | 0.1377944 |
| Rad1  | 0.52020529 | 4.79840405 | 4.62052726 | 0.04406836 | 0.1377944 |
| Aoah  | 1.9529447 | -0.6572058 | 4.62030268 | 0.04407301 | 0.1377944 |
| Abca12 | 2.35334721 | -1.4656762 | 4.61953758 | 0.04408883 | 0.13779989 |
| Slc35f5 | 0.44327552 | 4.54118939 | 4.61820342 | 0.04411645 | 0.13780462 |
| Adora3 | -2.5047488 | -1.5513716 | 4.61797982 | 0.04412108 | 0.13780462 |
| Atp9b | 0.54137612 | 3.99564467 | 4.61742576 | 0.04413255 | 0.13780462 |
| Tsfm  | -0.480255 | 2.62494558 | 4.61479231 | 0.04418713 | 0.13792972 |
| Gene   | Correlation Coefficient | p-value          | q-value          |
|--------|-------------------------|------------------|-----------------|
| Inpp5f | 0.23354576              | 6.79477906       | 0.8192999       |
| Ubiad1 | -0.721036               | 1.89560882       | 0.04423199      |
| Camk1  | -0.4320869              | 3.80136889       | 0.04424218      |
| Ubr3   | 0.34320536              | 9.67367166       | 0.04424302      |
| Dlgap1 | 0.39352612              | 8.83633306       | 0.04429789      |
| Agtr2  | -2.1798527              | -1.1446577       | 0.04431386      |
| Hexim2 | -0.6135174              | 2.30209558       | 0.04431701      |
| Atf6   | 0.30582778              | 6.94906502       | 0.04431878      |
| Grm4   | 0.48753506              | 4.02745174       | 0.04433787      |
| Npr2   | 0.37518723              | 4.07112397       | 0.04435651      |
| Gm20767| 1.03306656              | 1.1002341        | 0.04444147      |
| Akt1s1 | -0.8046185              | 1.7893999        | 0.04444681      |
| Usp20  | 0.46934371              | 3.79233137       | 0.04447602      |
| Dnajb14| -0.3568391              | 4.2317679        | 0.04447602      |
| Nanos1 | -0.2798387              | 5.23537647       | 0.04448349      |
| BC030499| 0.98894334              | 2.4979529        | 0.04451619      |
| Rfx1   | 0.60098804              | 3.37654182       | 0.04453048      |
| Dido1  | 0.31772177              | 6.59201609       | 0.04453245      |
| Trpc4  | 0.50990499              | 3.9938902        | 0.04453245      |
| Cd226  | 1.16387712              | 0.44264566       | 0.04458933      |
| 1700026D08| -1.0625859             | 0.6894357        | 0.04458933      |
| Ptgr2  | -0.381538               | 6.42291844       | 0.04461954      |
| Stx2   | 0.63703321              | 2.63517198       | 0.0446209       |
| Mrpl3  | -0.2905996              | 5.42029151       | 0.04464301      |
| Alg11  | 0.32975727              | 6.70173638       | 0.04464301      |
| Ria1   | 0.87548287              | 0.99608685       | 0.04466265      |
| Tmem121| -4.5320214              | -1.3857168       | 0.04473203      |
| Rbm22  | 0.33995093              | 4.93733979       | 0.04476675      |
| Casp7  | -0.785942               | 2.71536491       | 0.04477514      |
| I7Rn6  | -0.3526877              | 6.09145303       | 0.04478133      |
| Tab3   | 0.27225988              | 6.0446983        | 0.04478282      |
| Pccb   | -0.383108               | 4.70569849       | 0.04478746      |
| Psma4  | -0.2510495              | 6.88952147       | 0.04479558      |
| Rnf165 | 0.40019226              | 6.31500496       | 0.0448163       |
| Rbm3   | -0.4114698              | 7.90721489       | 0.04483292      |
| Tcf7   | -0.415813               | 4.8730236        | 0.04486159      |
| Foxo4  | -0.786653               | 1.66540675       | 0.04487941      |
| Slc39a2| 1.64190802              | 0.47883261       | 0.04489004      |
| Hist2h3b| 1.73723144             | -1.2253731       | 0.04489956      |
| Ccdc169| 2.94850324              | -2.2268421       | 0.04491554      |
| Ndufs6 | -0.46927                | 5.1640407        | 0.04492476      |
| Gemin8 | -0.4857158              | 3.45202186       | 0.0449657       |
| R74862 | -0.3697127              | 4.58028853       | 0.04504385      |
| Gene   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Hiat1  | 0.28326032 | 6.3790195 | 4.57270711 | 0.04506997 | 0.13874149 |
| Cnr1   | 0.32663592 | 6.5698156 | 4.56930026 | 0.04514231 | 0.13892053 |
| Fastkd3| -0.3745494 | 3.79209498 | 4.56801802 | 0.04516957 | 0.13896077 |
| Slc24a5| 0.57691855 | 2.28941633 | 4.56522268 | 0.04522907 | 0.13910011 |
| Skp2   | 0.64114324 | 2.8285553 | 4.56387628 | 0.04525776 | 0.13914466 |
| Nell1  | 0.40449757 | 4.05279299 | 4.56229698 | 0.04529144 | 0.13919198 |
| Vipr1  | 0.82109075 | 2.42237839 | 4.56182194 | 0.04530157 | 0.13919198 |
| Anp32a | -0.2251762 | 7.60656272 | 4.55799614 | 0.04538329 | 0.13939936 |
| Usp34  | 0.38689301 | 8.49626078 | 4.55686963 | 0.04540739 | 0.13942965 |
| Anki1  | 0.24343634 | 6.52754493 | 4.55356339 | 0.04547819 | 0.13953555 |
| S330413P13l| -0.9313666 | 1.58644939 | 4.55333605 | 0.04548306 | 0.13953555 |
| Gprin1 | -0.3935581 | 4.69339055 | 4.55321718 | 0.04548561 | 0.13953555 |
| Fars2  | -0.6216941 | 2.72872315 | 4.55259935 | 0.04549886 | 0.13953555 |
| Tcf5   | -3.1260262 | -1.4827412 | 4.55102392 | 0.04553266 | 0.1395955 |
| Dnajb5 | -0.3852875 | 5.88746748 | 4.54913328 | 0.04557326 | 0.13960018 |
| Trap1  | 0.39045565 | 4.50678277 | 4.54911815 | 0.04557358 | 0.13960018 |
| Gpr68  | 0.43698473 | 3.49668745 | 4.54896197 | 0.04557694 | 0.13960018 |
| Ube2r2 | -0.3414369 | 8.34444785 | 4.54566247 | 0.0456479 | 0.13976425 |
| Zfp354b| 0.76836423 | 2.41234248 | 4.54514479 | 0.04565904 | 0.13976425 |
| Hivep2 | 0.56725748 | 8.90992796 | 4.54205588 | 0.04572561 | 0.13984956 |
| Gm9776 | 0.61322354 | 2.31677585 | 4.54036254 | 0.04576214 | 0.13984956 |
| Epb4.1l1| 0.31170095 | 8.48495277 | 4.539315 | 0.04578476 | 0.13984956 |
| Ssays1 | 0.59237144 | 2.32347982 | 4.539019 | 0.04579116 | 0.13984956 |
| Pik3r4 | 0.35614317 | 5.1104775 | 4.53872117 | 0.04579759 | 0.13984956 |
| Nron   | 1.580224 | 0.25872648 | 4.53805375 | 0.04581201 | 0.13984956 |
| Atp5b  | -0.2261563 | 10.5802722 | 4.5379302 | 0.04581468 | 0.13984956 |
| Gpatch8| 0.25286023 | 8.04888298 | 4.53792187 | 0.04581468 | 0.13984956 |
| Smurf2 | -0.2629291 | 7.06923446 | 4.53789678 | 0.04581541 | 0.13984956 |
| St13   | -0.3061879 | 6.32199189 | 4.53648991 | 0.04584583 | 0.13989882 |
| Olfr856-ps1| 0.73451211 | 4.31338526 | 4.53164277 | 0.04595081 | 0.14017552 |
| Hsd11b1| -0.87735 | 1.67588969 | 4.53066439 | 0.04597204 | 0.14019661 |
| 2700046A07| -0.7323511 | 2.66778136 | 4.52902684 | 0.04600759 | 0.14026135 |
| Gm8234 | 0.53482732 | 3.69496776 | 4.52726151 | 0.04604595 | 0.14033462 |
| Scaf8  | 0.29084543 | 5.88073503 | 4.52606676 | 0.04607193 | 0.14037012 |
| Camsap1| 0.33881899 | 6.94819669 | 4.52169933 | 0.04616705 | 0.14061619 |
| Ralgapa1| 0.48394334 | 7.7368995 | 4.51570365 | 0.04629799 | 0.14091688 |
| Gpc6   | 0.43741183 | 7.3480851 | 4.51528233 | 0.04630721 | 0.14091688 |
| Dhdd1  | 0.34315533 | 6.49345786 | 4.51490899 | 0.04631537 | 0.14091688 |
| Rangap1| -0.3613127 | 6.60553911 | 4.51454631 | 0.04632331 | 0.14091688 |
| D930015E06| 0.8048224 | 2.15529752 | 4.51277451 | 0.04636211 | 0.14093333 |
| Rbm8a  | -0.4322677 | 5.27386236 | 4.51213915 | 0.04637604 | 0.14093333 |
| Grin2a | 0.41116205 | 6.61728008 | 4.51180972 | 0.04638326 | 0.14093333 |
| Wwp2   | -0.4114026 | 4.35375428 | 4.51028939 | 0.0464166 | 0.14093333 |
| Gene       | Gm12709 | Eya2  | Lamtor1 | Psmb10 | Edrf1  | Zfp462 | Srsf4  | 4930429B21 | Cacybp  | Akap9  | LOC102634431 | Inpp5b  | Lin52  | Esyt3  | 1700080N15 | Slc29a4 | Slit2  | Pex7   | Cct6a   | Gm10791 | Mtmr4  | Twist2 | Edn1   | Rnf145  | Impdh2  | Grhl3  | Glgl   | Cdo1   | Fam21   | Mir6414 | Reep6  | Tefm   | Edem1  | Polr3d  | Myo5b   | Sfxn2  | Morn4  | Cnot3  | Calm1  | Ints1   | Racgap1 | Tmsb15b2 | Col6a4  |
|------------|---------|-------|---------|--------|--------|--------|--------|-----------|---------|--------|----------------|---------|--------|--------|-------------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|
| Gene      | 1.27949527 | 0.97425989 | 4.45965085 | 0.04754287 | 0.14250253 |
|-----------|------------|------------|------------|------------|------------|
| Atp6v1e1  | -0.2541373 | 6.40075552 | 4.4583693 | 0.04757177 | 0.14250843 |
| 5830415F09I | -2.1583327 | -0.7140421 | 4.45827362 | 4.04757393 | 0.14250843 |
| Tbrg1     | -0.4455427 | 4.80640048 | 4.45217641 | 0.04771173 | 0.14276898 |
| 6530402F18I | 1.03314745 | 1.42045997 | 4.4520821 | 0.04771387 | 0.14276898 |
| Spink8    | -1.5365258 | -0.1941397 | 4.45196584 | 0.0477165 | 0.14276898 |
| Dctn2     | -0.2649051 | 5.87271617 | 4.45184609 | 0.04771921 | 0.14276898 |
| Rsl24d1   | -0.370801 | 5.39693246 | 4.45076384 | 0.04774372 | 0.14276905 |
| Armcx5    | -0.2882825 | 5.36847734 | 4.45055813 | 0.04774389 | 0.14276905 |
| Tgfbrap1  | 0.29564163 | 5.59622484 | 4.44923988 | 0.04777827 | 0.14277739 |
| Tmem109   | 0.40309933 | 3.48127732 | 4.44824362 | 0.04780086 | 0.14277739 |
| Dopey2    | 0.43155622 | 5.69919646 | 4.4481859 | 0.04780217 | 0.14277739 |
| Rgl2      | 0.63351722 | 2.1835214 | 4.4475608 | 0.04781635 | 0.14277739 |
| Sec23b    | 0.3933606 | 5.40824447 | 4.44722152 | 0.04782406 | 0.14277739 |
| Emc4      | -0.2558199 | 6.33194098 | 4.4446609 | 0.04788222 | 0.14290749 |
| Arid1b    | 0.40391876 | 6.24376872 | 4.44187433 | 0.04794561 | 0.14305309 |
| Prkx      | -0.4161095 | 4.57559272 | 4.43982619 | 0.04799226 | 0.14314868 |
| Ccdc176   | 0.92242447 | 2.36353421 | 4.43859394 | 0.0480216 | 0.14319258 |
| Nfat5     | 0.29556799 | 8.73989418 | 4.43780096 | 0.04803844 | 0.14319921 |
| Rbm6      | 0.33496879 | 6.21619282 | 4.43701666 | 0.04805634 | 0.14320516 |
| Rsp1h     | -0.7619571 | 2.13736563 | 4.43643253 | 0.04806968 | 0.14320516 |
| Mir1954   | 5.67117765 | -1.8444918 | 4.53871849 | 0.04812014 | 0.14322833 |
| 1500009L16f | -0.3897059 | 4.68452919 | 4.43420586 | 0.04812055 | 0.14322833 |
| Kctd13    | -0.425437 | 6.17116268 | 4.43364015 | 0.04813348 | 0.14322833 |
| Ctnnb1    | -0.4505023 | 3.28848364 | 4.43353243 | 0.04813594 | 0.14322833 |
| C230004F18I | 0.68260573 | 3.88591467 | 4.43243658 | 0.04816101 | 0.1432594 |
| Smc5      | 0.46431734 | 5.74348268 | 4.42973218 | 0.04822294 | 0.14338266 |
| Zfp652os  | -1.6046787 | -0.6744618 | 4.42918151 | 0.04823556 | 0.14338266 |
| Asc1c3    | 0.49823191 | 5.75611155 | 4.42819731 | 0.04825813 | 0.14338266 |
| Herc6     | 0.359866 | 5.29591099 | 4.42757651 | 0.04827237 | 0.14338266 |
| Shc3      | 0.56420947 | 3.93974062 | 4.42735385 | 0.04827747 | 0.14338266 |
| Sh2d1a    | -3.1913585 | -1.5924025 | 4.42644958 | 0.04829823 | 0.14338266 |
| Prrc2a    | 0.27050482 | 7.7199155 | 4.42615846 | 0.04830491 | 0.14338266 |
| Hrh3      | -0.3728042 | 4.74456267 | 4.42499635 | 0.04833116 | 0.14341842 |
| Wdfy4     | -0.878922 | 1.56055721 | 4.42279267 | 0.04838226 | 0.14348433 |
| Vmn2r87   | 1.19063353 | 1.17231692 | 4.42221915 | 0.04839545 | 0.14348433 |
| Rundc3b   | 0.37713039 | 4.81308097 | 4.42079074 | 0.04842833 | 0.14348433 |
| Ghsr      | 1.85833006 | -0.3539409 | 4.4205669 | 0.04843349 | 0.14348433 |
| Gtf2h5    | -0.4178663 | 5.19964753 | 4.42051113 | 0.04843477 | 0.14348433 |
| Lrcc42    | -0.4883779 | 3.25022116 | 4.4202103 | 0.04844177 | 0.14348433 |
| Fam131c   | -2.8244262 | -0.4741631 | 4.4195193 | 0.04845762 | 0.14348809 |
| Dynlt1b   | -0.5363357 | 4.20983588 | 4.41762258 | 0.04850135 | 0.14354668 |
| Sdcbp2    | 1.62215369 | -0.7021209 | 4.41738988 | 0.04850672 | 0.14354668 |
| Gene    | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|---------|---------|---------|---------|---------|---------|---------|
| Sh3tc2  | 2.76027383 | -1.284331 | 4.37049252 | 0.04960253 | 0.14482252 |
| Ikbkap  | 0.46090287 | 5.38567574 | 4.37046565 | 0.04960316 | 0.14482252 |
| Grk1    | 0.92095886 | 1.35031602 | 4.36928825 | 0.04963103 | 0.14486072 |
| Bptf    | 0.36701529 | 8.32255731 | 4.3677921 | 0.04966648 | 0.14487138 |
| L2hdgh  | -0.2495128 | 6.11921602 | 4.36705834 | 0.04968387 | 0.14487138 |
| Emp2    | 0.44361098 | 4.33314643 | 4.36703142 | 0.04968451 | 0.14487138 |
| Vps13a  | 0.39848231 | 7.32010642 | 4.36663788 | 0.04969384 | 0.14487138 |
| Dnmt3a  | 0.32980403 | 6.59707257 | 4.36481082 | 0.04973719 | 0.14492158 |
| Nsl1    | 0.62062302 | 4.5800397 | 4.36466513 | 0.04974065 | 0.14492158 |
| Prcc2b  | 0.26872274 | 8.7073686 | 4.36354023 | 0.0497637 | 0.14495629 |
| D430041D05 | 0.3932659 | 7.66574254 | 4.3616928 | 0.04981128 | 0.14504106 |
| Ythdc2  | 0.45306448 | 5.51634512 | 4.36075629 | 0.04983355 | 0.1450417 |
| Ferl15   | 0.78154848 | 1.38580258 | 4.35931219 | 0.04986792 | 0.1450417 |
| Slc26a11 | 0.77683339 | 2.08885462 | 4.35901915 | 0.0498749 | 0.1450417 |
| Rdh1     | 0.8045192 | 2.07293096 | 4.3580653 | 0.04989762 | 0.1450417 |
| Fam120b  | 0.30757013 | 6.59916245 | 4.35798195 | 0.04989961 | 0.1450417 |
| Adamsl4  | 0.53456431 | 2.84914448 | 4.35740957 | 0.04991325 | 0.1450417 |
| Dnmt2    | -2.2761345 | -0.9402289 | 4.35732985 | 0.04991515 | 0.1450417 |
| Rbfox3   | -0.229359 | 7.81275432 | 4.35136695 | 0.05000751 | 0.14541224 |
| Rif1     | 0.42007612 | 5.78944348 | 4.34941858 | 0.05010413 | 0.14550451 |
| Frmd4b   | -0.33456454 | 5.2760679 | 4.34674811 | 0.0501681 | 0.14564712 |
| Fndc1    | 0.74655666 | 1.61004126 | 4.34507416 | 0.05020825 | 0.14570221 |
| 4932411N23 | 1.66138234 | -0.9359805 | 4.34471672 | 0.05021683 | 0.14570221 |
| Snf8     | -0.4784735 | 4.26851453 | 4.34315791 | 0.05025426 | 0.14576763 |
| Bhlhb9   | 0.2648356 | 5.47364275 | 4.34126586 | 0.05029973 | 0.14584457 |
| Map2k5   | -0.48068 | 3.60652918 | 4.34024151 | 0.05032437 | 0.14584457 |
| Csrp2bp  | -0.3265665 | 4.95271622 | 4.34019658 | 0.05032545 | 0.14584457 |
| Epha7    | 0.38097857 | 6.56712493 | 4.33937474 | 0.05034523 | 0.14585302 |
| Dusp22   | 0.31805146 | 4.87113132 | 4.33883822 | 0.05035815 | 0.14585302 |
| St3gal4  | -0.7252193 | 3.96093969 | 4.33586667 | 0.05042975 | 0.14601723 |
| Wdr19    | 0.44097426 | 4.6043891 | 4.33517875 | 0.05044635 | 0.14602212 |
| Rpl26    | -1.7049862 | -1.291403 | 4.33293072 | 0.05050062 | 0.14605701 |
| Mff      | -0.2439517 | 7.56692729 | 4.33271278 | 0.05050588 | 0.14605701 |
| Tro      | 0.48007096 | 6.41530895 | 4.33185965 | 0.0505265 | 0.14605701 |
| Ccdc101  | -0.4093837 | 4.2368717 | 4.33173141 | 0.0505296 | 0.14605701 |
| Ttc3     | 0.37445734 | 9.98771488 | 4.33137265 | 0.05053827 | 0.14605701 |
| Epg5     | 0.57620053 | 5.48609808 | 4.33091283 | 0.05054939 | 0.14605701 |
| Brwd3    | 0.31803847 | 6.15172761 | 4.33011841 | 0.0505686 | 0.14605701 |
| Gsx1     | 2.97835408 | -1.7004673 | 4.32974298 | 0.05057769 | 0.14605701 |
| Gapdh    | -0.2468402 | 9.52446363 | 4.32683779 | 0.05064804 | 0.14607666 |
| Wdr7     | 0.40992942 | 7.54758209 | 4.32657507 | 0.05065441 | 0.14607666 |
| Echdc3   | -0.9217683 | 1.11695065 | 4.32650445 | 0.05065612 | 0.14607666 |
| Fam134b  | 0.35227672 | 5.61864022 | 4.32601527 | 0.05066798 | 0.14607666 |
| Gene     | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Tmem106b | 0.27209337 | 7.56207036 | 4.32569049 | 0.05067586 | 0.14607666 |
| Vma21    | -0.2768773 | 6.21773459 | 4.32547506 | 0.05068108 | 0.14607666 |
| Fbxl8    | 2.29944891 | -0.7816331 | 4.32515353 | 0.05068888 | 0.14607666 |
| Lrrc45   | 0.44725714 | 3.71480371 | 4.32210434 | 0.05076291 | 0.14624698 |
| Inpp5k   | 0.32537223 | 4.16728098 | 4.32022675 | 0.05080856 | 0.14633545 |
| Pkia     | -0.2259659 | 8.02784986 | 4.31908119 | 0.05083643 | 0.14637269 |
| Rela     | -0.417895  | 4.25629368 | 4.31769795 | 0.05087011 | 0.14641843 |
| Mrpl2    | -0.5725453 | 3.1418661 | 4.31686713 | 0.05089036 | 0.14641843 |
| Vimp     | -0.3189181 | 6.1270351 | 4.31658777 | 0.05089716 | 0.14641843 |
| Cd160    | 1.10191335 | 1.22639695 | 4.31535801 | 0.05092715 | 0.14646167 |
| Dennd2c  | -1.355191 | -0.3429158 | 4.31471231 | 0.0509429 | 0.14646396 |
| Pcdha9   | 1.73454006 | 0.22596799 | 4.31259458 | 0.0509946 | 0.14655085 |
| Cyfip2   | 0.37626973 | 9.89947236 | 4.31224882 | 0.05100304 | 0.14655085 |
| Dclre1b  | -0.4320762 | 3.22638578 | 4.31034925 | 0.05104947 | 0.14664125 |
| 1110012L19f | -0.6805052 | 3.3695072 | 4.3062247 | 0.05115046 | 0.14670746 |
| Scn2a1   | 0.47021891 | 8.05753643 | 4.30494937 | 0.05118173 | 0.14670746 |
| Ddx5     | 0.26253243 | 9.43719994 | 4.30395835 | 0.05120604 | 0.14670746 |
| Asnsd1   | -0.4543026 | 5.29360696 | 4.30349741 | 0.05121736 | 0.14670746 |
| Utp14b   | 0.45373777 | 4.91142659 | 4.30305719 | 0.05122817 | 0.14670746 |
| Atad3a   | 0.53114944 | 3.12139672 | 4.30218429 | 0.0512496 | 0.14670746 |
| Arl2bp   | -0.3481348 | 5.67878258 | 4.30193993 | 0.05125561 | 0.14670746 |
| Pop7     | -0.5235673 | 2.62452614 | 4.30155138 | 0.05126515 | 0.14670746 |
| Oasl2    | -0.5133714 | 7.17688143 | 4.30153613 | 0.05126553 | 0.14670746 |
| Clec4g   | -2.2259782 | -1.5949193 | 4.30135842 | 0.0512699 | 0.14670746 |
| Zfp959   | 0.63933218 | 1.73695519 | 4.30128019 | 0.05127182 | 0.14670746 |
| Ranbp3   | 0.3638763 | 3.79785599 | 4.30085565 | 0.05128226 | 0.14670746 |
| Fam192a  | -0.3177257 | 5.25633001 | 4.30006705 | 0.05128689 | 0.14670746 |
| Htr1d    | 1.08756264 | 1.15101983 | 4.30060293 | 0.05128847 | 0.14670746 |
| Gtf3c3   | 0.33397059 | 5.16678281 | 4.30024859 | 0.05129718 | 0.14670746 |
| Ykt6     | -0.3532555 | 5.12626291 | 4.29921695 | 0.05132256 | 0.14670953 |
| Ndufb9   | 0.3880513 | 6.52462257 | 4.2900157 | 0.05132786 | 0.14670953 |
| Fam160b1 | 0.35003493 | 5.00786603 | 4.29790493 | 0.05135485 | 0.14674386 |
| Gm10785  | 1.03820394 | 0.94385693 | 4.29591039 | 0.05140399 | 0.14684144 |
| Fundc2   | -0.3587371 | 7.72147033 | 4.29369456 | 0.05145865 | 0.14695471 |
| Lrrk2    | 0.50806679 | 5.84619947 | 4.2905615 | 0.05153604 | 0.14703981 |
| Ap2m1    | -0.2485177 | 7.80336144 | 4.29050694 | 0.05153739 | 0.14709381 |
| Psmd9    | -0.431455 | 4.39542341 | 4.28869369 | 0.05158224 | 0.14717894 |
| Taf4a    | 0.31961145 | 4.74494453 | 4.28509954 | 0.05167128 | 0.14739005 |
| Zfp951   | 0.53976232 | 2.46295741 | 4.28315018 | 0.05171964 | 0.14742434 |
| Brat1    | 0.64516295 | 2.28411883 | 4.28297254 | 0.05172405 | 0.14742434 |
| Zfyve19  | -0.3949199 | 3.28719945 | 4.28279535 | 0.05172845 | 0.14742434 |
| Psma3    | -0.2767934 | 6.99917801 | 4.2816107 | 0.05175787 | 0.14744149 |
| Tph1     | -3.1364353 | -0.7652572 | 4.28134104 | 0.05176457 | 0.14744149 |
| Gene       | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------|
| Plxdc2     | 0.25307549 | 6.74706993 | 4.27871962 | 0.05182976 | 0.14754912 |
| Capsl      | -1.0514358 | 1.18901442 | 4.278611 | 0.05183248 | 0.14754912 |
| C230029M16f | -4.6136971 | -1.9497572 | 4.2771952 | 0.05186771 | 0.14760649 |
| Fam189a1   | 0.32436545 | 5.77277244 | 4.27544464 | 0.05191132 | 0.14762716 |
| Cpm        | -0.4791753 | 4.42576325 | 4.27464126 | 0.05193136 | 0.14762716 |
| Jrk1       | -0.4227032 | 3.30938128 | 4.27449056 | 0.05193511 | 0.14762716 |
| Tomm40l    | -0.3443289 | 3.94998471 | 4.27448486 | 0.05193526 | 0.14762716 |
| Cyp51       | 0.37020399 | 5.33022634 | 4.27234636 | 0.05198863 | 0.147736 |
| Knca1      | 0.34392016 | 7.66046982 | 4.26910887 | 0.05206954 | 0.14792302 |
| Nav3       | 0.51209806 | 6.74141912 | 4.26728439 | 0.05211521 | 0.14799653 |
| Cpd        | 0.33486464 | 6.32169833 | 4.26686797 | 0.05212563 | 0.14799653 |
| Sestd1     | 0.38778336 | 7.06403076 | 4.26616791 | 0.05214317 | 0.14800342 |
| Gpr157     | 0.78195941 | 2.14962224 | 4.26369213 | 0.05220525 | 0.14812636 |
| 1500011K16l | -0.542524 | 3.942228 | 4.26283348 | 0.05222668 | 0.14812636 |
| Os9        | 0.41532285 | 4.71647211 | 4.26234382 | 0.05223909 | 0.14812636 |
| Myot       | -2.6495863 | -2.0569196 | 4.26184515 | 0.05225161 | 0.14812636 |
| Khl23      | 0.41270926 | 5.1496477 | 4.26142784 | 0.05226209 | 0.14812636 |
| Abca7      | 0.85789309 | 1.81543376 | 4.25921882 | 0.05231762 | 0.14824085 |
| Shc1       | -0.4579907 | 6.42383923 | 4.25582214 | 0.05240314 | 0.14843697 |
| Cand1      | 0.31574096 | 7.71060483 | 4.2552662 | 0.05241715 | 0.14843697 |
| Pigt       | 0.34122594 | 5.31439876 | 4.25204502 | 0.05249841 | 0.14862414 |
| Ctc        | 0.27589914 | 6.64039487 | 4.24962341 | 0.05255956 | 0.14875438 |
| Itgbl1     | 0.43297722 | 6.1219165 | 4.24844269 | 0.05258947 | 0.14879591 |
| Mrps7      | -0.3539975 | 5.25942909 | 4.24745682 | 0.05261442 | 0.14882352 |
| Tdrd1      | 1.17223736 | 0.84020245 | 4.2460162 | 0.05265091 | 0.14886555 |
| Lmc1h1     | 0.55097116 | 5.83790073 | 4.24567001 | 0.05265968 | 0.14886555 |
| Ss18       | -0.3064023 | 5.34131109 | 4.24487506 | 0.05267982 | 0.14887955 |
| Slitrk1     | 0.28020012 | 7.08121807 | 4.24260196 | 0.05273749 | 0.14894867 |
| Gm6583     | 2.44787281 | -1.0788076 | 4.24209675 | 0.05275031 | 0.14894867 |
| Dbf4       | -0.729677 | 1.82206078 | 4.24154676 | 0.05276428 | 0.14894867 |
| Opn4       | 1.7893264 | -0.0893855 | 4.24151422 | 0.05276511 | 0.14894867 |
| Chmp1a     | -0.4255357 | 4.57431843 | 4.23986693 | 0.05280696 | 0.14898165 |
| Dnase1     | 1.16220587 | 1.03143966 | 4.23931742 | 0.05282093 | 0.14898165 |
| Def8       | -0.350513 | 4.42867502 | 4.23925909 | 0.05282242 | 0.14898165 |
| Pck2       | -0.5232199 | 3.2418545 | 4.23775429 | 0.0528607 | 0.1490467 |
| Cds1       | 0.3416498 | 5.48304788 | 4.23683207 | 0.05288418 | 0.14906999 |
| Llgl2      | -1.2713229 | -0.2605733 | 4.23529329 | 0.05292338 | 0.14913757 |
| Phykpl     | 0.51661915 | 3.26191407 | 4.2342577 | 0.05294978 | 0.14916905 |
| Ms4a6d     | -2.8673947 | -1.2205621 | 4.23272853 | 0.05298879 | 0.14923603 |
| Lama3      | 0.73074885 | 2.5107146 | 4.23142463 | 0.05302208 | 0.14925527 |
| Hspb6      | -0.3724463 | 4.31120956 | 4.23126743 | 0.05302609 | 0.14925527 |
| P4ha3      | 0.89011349 | 2.42550254 | 4.23056921 | 0.05304393 | 0.14926258 |
| Fopnl      | -0.3765949 | 4.94606246 | 4.22784804 | 0.05311351 | 0.14940533 |
|     | 0.61258022 | 2.01871036 | 4.22720441 | 0.05312999 | 0.14940533 |
|-----|------------|------------|-------------|------------|------------|
| Hmces | 0.33989876 | 7.0689649 | 4.22679704 | 0.05314042 | 0.14940533 |
| Scai  | -2.1981128 | -0.5127274 | 4.22409299 | 0.05320971 | 0.14953782 |
| Slco1a5 | -1.1222951 | 0.93154725 | 4.22342855 | 0.05322675 | 0.14953782 |
| Wfcd17 | -0.2477531 | 6.15735084 | 4.22317156 | 0.05323334 | 0.14953782 |
| Phactr3 | -0.4102404 | 3.54956689 | 4.22252344 | 0.05324997 | 0.14954166 |
| Gga1  | 0.35466019 | 3.95493008 | 4.21852549 | 0.0533527 | 0.14978719 |
| P4ha1  | 0.38459363 | 7.48586352 | 4.21283822 | 0.05349922 | 0.15013041 |
| Ppp6r2  | 0.28236058 | 6.52446713 | 4.21259076 | 0.0535056 | 0.15013041 |
| 2610018G03 | 0.84842549 | 1.93661506 | 4.2117494 | 0.05352732 | 0.15014834 |
| Zfp101 | -0.5036677 | 2.54349396 | 4.20979441 | 0.05357782 | 0.15021492 |
| Hkdc1  | -0.7722981 | 1.82969467 | 4.20964343 | 0.05358172 | 0.15021492 |
| Tex2   | -0.2319619 | 6.54955136 | 4.20832396 | 0.05361584 | 0.15026756 |
| Dek    | -0.3288585 | 8.40392104 | 4.20599772 | 0.05367606 | 0.15035611 |
| Srp54a | -0.22196 | 7.11641345 | 4.2059174 | 0.05367814 | 0.15035611 |
| Csnk1g1 | 0.2539052 | 6.24794993 | 4.20315245 | 0.05374981 | 0.15046204 |
| Rfk    | -0.5253136 | 9.48783152 | 4.20305302 | 0.05375239 | 0.15046204 |
| Caly   | -0.4753969 | 3.47990388 | 4.20268117 | 0.05376204 | 0.15046204 |
| Dgk    | 0.6543656 | 3.76416739 | 4.20170462 | 0.05378738 | 0.15048998 |
| Nt5dc2 | -1.1176172 | 2.65514329 | 4.19922831 | 0.05385172 | 0.15062695 |
| Irf2bl | 0.30639927 | 5.745111218 | 4.19856865 | 0.05386887 | 0.15063192 |
| Gm4841 | 0.74641425 | 2.36667917 | 4.19664211 | 0.053919 | 0.15064495 |
| Vcpkmr | -0.7185725 | 1.7494766 | 4.19657682 | 0.0539207 | 0.15064495 |
| Ppp1r9a | 0.52977207 | 8.91038892 | 4.19543461 | 0.05395045 | 0.15064495 |
| Khdc9  | -0.3969945 | 3.65695043 | 4.19509484 | 0.0539593 | 0.15064495 |
| St8sia3 | 0.34815218 | 7.82621868 | 4.19491847 | 0.0539639 | 0.15064495 |
| Laptm4b | 0.28711807 | 5.34753559 | 4.19484527 | 0.05396581 | 0.15064495 |
| Tst    | -0.4841416 | 4.00671627 | 4.19328796 | 0.05400641 | 0.15071534 |
| Slc4a1 | 0.35401544 | 4.84507852 | 4.18907535 | 0.05411642 | 0.15097932 |
| Sptbn2 | 0.51372115 | 6.97958108 | 4.18846481 | 0.05413238 | 0.15098086 |
| Vsig10 | 1.06455462 | 1.46708961 | 4.18452729 | 0.05423547 | 0.15122533 |
| Dach1  | 0.7033256 | 2.04567433 | 4.18143047 | 0.05431671 | 0.15140875 |
| Chsy1  | 0.30375666 | 5.20745645 | 4.17902298 | 0.05437996 | 0.15151 |
| Prps13 | -0.3168959 | 4.70122548 | 4.17835956 | 0.0543974 | 0.15151 |
| Cacna2d3 | 0.41884194 | 5.15526663 | 4.17828229 | 0.05439944 | 0.15151 |
| Ppp3r2 | 1.6994867 | -0.420535 | 4.17705184 | 0.05443181 | 0.15151247 |
| Dcps  | -0.5713441 | 2.22805824 | 4.17700254 | 0.05443311 | 0.15151247 |
| Colec12 | 0.24403932 | 6.68445516 | 4.17607512 | 0.05445752 | 0.15151247 |
| Fam81a | -0.3107039 | 5.71032253 | 4.17557743 | 0.05447063 | 0.15151247 |
| Rps25 | -0.4942042 | 7.66263212 | 4.17499789 | 0.0544859 | 0.15151247 |
| Zswim3 | 0.80734051 | 2.11516617 | 4.17442307 | 0.05450105 | 0.15151247 |
| Heca  | -0.3450194 | 4.53730829 | 4.1736273 | 0.05452203 | 0.15151247 |
| Abcc5 | 0.61548538 | 4.93688186 | 4.17308524 | 0.05453632 | 0.15151247 |
| Gene     | Val1 | Val2 | Val3 | Val4 | Val5 | Val6 | Val7 | Val8 |
|----------|------|------|------|------|------|------|------|------|
| Gm6313   | 0.88340107 | 1.20104026 | 4.17296345 | 0.05453953 | 0.15151247 |
| Cenpj    | -0.3905822 | 4.00138366 | 4.17237029 | 0.05455518 | 0.15151298 |
| Inha     | 0.70520142 | 1.64997007 | 4.171429 | 0.05458003 | 0.15153901 |
| Znf41-ps | 0.56755454 | 2.72156312 | 4.16967356 | 0.05462639 | 0.15157056 |
| Zbtb22   | -0.4884914 | 3.3208382 | 4.16924665 | 0.05463768 | 0.15157056 |
| Zfp882   | 0.34096614 | 4.53737201 | 4.1692416 | 0.05463781 | 0.15157056 |
| Pgl5     | -0.8059165 | 1.35967136 | 4.16618412 | 0.0547187 | 0.15175197 |
| Fam76a   | -0.3122716 | 5.87616487 | 4.16533115 | 0.05474129 | 0.15175763 |
| Zbtb12   | -1.1967455 | -0.2350096 | 4.16478777 | 0.05475568 | 0.15175763 |
| Aox1     | -0.5099059 | 3.12249429 | 4.16435261 | 0.05476722 | 0.15175763 |
| Map4k2   | 0.36760439 | 4.85664931 | 4.16218565 | 0.05482469 | 0.15187391 |
| Mir1931  | 2.45565529 | -1.7815642 | 4.16019465 | 0.05487755 | 0.15197215 |
| Mgtat4c  | 0.55376236 | 2.88416955 | 4.15957779 | 0.05489394 | 0.15197215 |
| Gpr1     | -3.2290154 | -1.4864563 | 4.15909797 | 0.05490669 | 0.15197215 |
| Capn7    | 0.26497305 | 6.54872315 | 4.158321 | 0.05492735 | 0.15198638 |
| Jmy      | 0.24867135 | 7.18953639 | 4.15476287 | 0.05502207 | 0.15220547 |
| Gar1     | -0.331844 | 4.14274439 | 4.15029582 | 0.05514124 | 0.15243148 |
| Srrm2    | 0.36505544 | 10.1848417 | 4.15020316 | 0.05514372 | 0.15243148 |
| Rras2    | -0.4077534 | 4.65178085 | 4.14960524 | 0.05515969 | 0.15243148 |
| Tmem55b  | -0.3694077 | 4.99186399 | 4.14936863 | 0.05516602 | 0.15243148 |
| Wdr41    | -0.287662 | 4.83009109 | 4.14869282 | 0.05518408 | 0.15243839 |
| Faim     | -0.3585717 | 5.76111039 | 4.14730658 | 0.05522116 | 0.15248895 |
| Myl6b    | -0.6702744 | 3.78639404 | 4.14684475 | 0.05523352 | 0.15248895 |
| Kdm4a    | 0.47899454 | 3.03882422 | 4.14609411 | 0.05525361 | 0.15249896 |
| Prdm8    | -0.4267909 | 5.55077021 | 4.14554622 | 0.05526828 | 0.15249896 |
| Eif4a2   | -0.2209468 | 8.98994268 | 4.14452612 | 0.05529561 | 0.1525314 |
| Cmtr2    | 0.65792242 | 2.13066756 | 4.14174535 | 0.05537019 | 0.15269412 |
| Rpl24    | -0.3491828 | 6.6964983 | 4.13993068 | 0.05541892 | 0.15270715 |
| Gm11127  | 0.51935126 | 3.78729841 | 4.13988793 | 0.05542007 | 0.15270715 |
| Ube2q1   | -0.2250534 | 7.10382136 | 4.13982775 | 0.05542168 | 0.15270715 |
| Prt1     | -0.3539404 | 4.88909322 | 4.13701485 | 0.05497932 | 0.15283863 |
| Arhgef37 | -1.1607549 | 0.28806604 | 4.1368926 | 0.05550061 | 0.15283863 |
| Plcd1    | -0.6512185 | 2.01051143 | 4.13415984 | 0.05557421 | 0.15285534 |
| Anapc13  | -0.4708723 | 5.13802789 | 4.13355012 | 0.05559064 | 0.15285534 |
| Aptx     | -0.2945921 | 5.00670793 | 4.13342807 | 0.05559393 | 0.15285534 |
| Zfp706   | -0.2666575 | 7.48004342 | 4.13307817 | 0.05560337 | 0.15285534 |
| Rab15    | -0.244509 | 6.31468885 | 4.1330124 | 0.05560514 | 0.15285534 |
| Lrtm1    | 1.15352586 | 3.1295136 | 4.13217528 | 0.05562773 | 0.15285534 |
| Mdn      | -0.3390489 | 5.84324131 | 4.13178265 | 0.05563832 | 0.15285534 |
| Sp110    | -0.5660386 | 3.39387382 | 4.13145698 | 0.05564711 | 0.15285534 |
| Chmp3    | -0.3114423 | 6.51614272 | 4.13145662 | 0.05564712 | 0.15285534 |
| Adcy3    | 0.6870461 | 2.3116347 | 4.12967007 | 0.05569537 | 0.15294499 |
| Cry1     | -0.3780853 | 4.34636312 | 4.12679486 | 0.05577312 | 0.15311557 |
| Gene     | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   | Value 10  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cbx1     | -0.3845209 | 4.65570054 | 4.12602276 | 0.05579402 | 0.15313003 |
| Mllt6    | 0.29047752 | 6.01059421 | 4.1251942 | 0.05581646 | 0.15314428 |
| Alpk1    | 0.63038572 | 2.5294278 | 4.12451359 | 0.0558349 | 0.15314428 |
| Tns1     | -0.2432353 | 6.61314246 | 4.12290428 | 0.05587852 | 0.15314428 |
| Ret      | 0.87775417 | 1.82544934 | 4.12236899 | 0.05589304 | 0.15314428 |
| Kif1a    | 0.40062316 | 9.884119 | 4.12230903 | 0.05589467 | 0.15314428 |
| Vps52    | 0.32407171 | 4.55164951 | 4.12195559 | 0.05590425 | 0.15314428 |
| Aurkaip1 | -0.416824 | 4.92854804 | 4.12143633 | 0.05591835 | 0.15314428 |
| Deptor   | -0.2474742 | 7.41084037 | 4.11999248 | 0.05595756 | 0.15314428 |
| Arl6ip4  | -0.429997 | 4.90499571 | 4.11957356 | 0.05596894 | 0.15314428 |
| Vstm2a   | 0.29599941 | 6.5331679 | 4.11951447 | 0.05597055 | 0.15314428 |
| Fbxl16   | -0.3450387 | 7.27841856 | 4.11949084 | 0.05597119 | 0.15314428 |
| Rasa2    | 0.29349102 | 5.06270366 | 4.11737023 | 0.05602885 | 0.15325923 |
| Gbp1     | -0.2485904 | 7.99359467 | 4.11641502 | 0.05605484 | 0.15328753 |
| Dennd1a  | 0.28762722 | 5.51187402 | 4.11474108 | 0.05610043 | 0.15336937 |
| Gm10658  | -1.6377035 | -0.5900214 | 4.1120082 | 0.05617494 | 0.15351442 |
| Zrsr2    | -0.2616419 | 6.20356364 | 4.11164593 | 0.05618483 | 0.15351442 |
| Fam198a  | 0.85832024 | 1.78053797 | 4.11055877 | 0.05621451 | 0.15355268 |
| Itpr2    | 0.29150463 | 5.33781271 | 4.10782509 | 0.05628922 | 0.15367493 |
| Nsmce4a  | -0.4000866 | 4.58308296 | 4.10777319 | 0.05629064 | 0.15367493 |
| Rara     | -0.51134 | 5.15309412 | 4.10673688 | 0.05631899 | 0.15370949 |
| 2510039O18 | 0.60146935 | 3.40800812 | 4.10523323 | 0.05636016 | 0.15375494 |
| Endod1   | -0.3128745 | 4.92098218 | 4.10488075 | 0.05636981 | 0.15375494 |
| Dmrt2    | 1.40229309 | -0.2709334 | 4.10440921 | 0.05638273 | 0.15375494 |
| Tle1     | 0.30907521 | 5.53266061 | 4.10348488 | 0.05640807 | 0.15378122 |
| Lrrc20   | -0.487501 | 4.21284955 | 4.10094927 | 0.05647764 | 0.15392803 |
| Gna11    | -0.3602816 | 5.92150648 | 4.10034978 | 0.0564941 | 0.15393007 |
| 1700012B09 | -1.7008671 | -0.4327784 | 4.09910973 | 0.05652817 | 0.15393751 |
| Anxa4    | -0.4643328 | 6.49079403 | 4.09878652 | 0.05653705 | 0.15393751 |
| Pxn      | -0.333503 | 5.22610762 | 4.09853471 | 0.05654397 | 0.15393751 |
| Ctdsp1   | -0.3997533 | 6.68530634 | 4.09607252 | 0.05661171 | 0.15406946 |
| Pfnn1    | -0.4926912 | 6.68741476 | 4.09531408 | 0.0566326 | 0.15406946 |
| Sftp1    | -3.3965034 | -1.19407 | 4.09505879 | 0.05663963 | 0.15406946 |
| AW046200 | 1.5689926 | 0.14785655 | 4.09002931 | 0.05677836 | 0.15440396 |
| Klk14    | 1.24718187 | -0.0143907 | 4.08840995 | 0.05682312 | 0.15440716 |
| Grm2     | 0.37851787 | 3.64352703 | 4.08838595 | 0.05682378 | 0.15440716 |
| Nell2    | 0.32391569 | 6.79545258 | 4.08787007 | 0.05683804 | 0.15440716 |
| Kif13b   | 0.39519307 | 3.67690673 | 4.08770558 | 0.05684259 | 0.15440716 |
| Tlr9     | 1.54681673 | -0.3613039 | 4.08609005 | 0.0568873 | 0.154413 |
| Plcxd3   | 0.38625394 | 5.01837522 | 4.08588087 | 0.05689309 | 0.154413 |
| Zswim6   | 0.27233112 | 6.10393689 | 4.08568481 | 0.05689852 | 0.154413 |
| Ccnl2    | 0.52966198 | 4.42696557 | 4.08534969 | 0.0569078 | 0.154413 |
| Eci2     | -0.3930644 | 5.4609683 | 4.08387593 | 0.05694863 | 0.15442119 |
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| Sgsm2 | 0.38027314 | 4.61831494 | 4.08384945 | 0.05694936 | 0.15442119 |
| 2310065F04I | -3.5310383 | -1.6420184 | 4.08353394 | 0.05695811 | 0.15442119 |
| Fam227a | 0.92718708 | 1.77176102 | 4.08078664 | 0.05703433 | 0.15455675 |
| Psmb8 | 0.76914392 | 2.65757263 | 4.08016048 | 0.05705172 | 0.15455675 |
| Hint2 | -0.56913911 | 3.50760824 | 4.08002629 | 0.05705545 | 0.15455675 |
| Ggh | 0.57394355 | 3.23462189 | 4.07844953 | 0.05709927 | 0.1546099 |
| Rabif | -0.35758333 | 5.84337403 | 4.07798025 | 0.05711232 | 0.1546099 |
| Il1a | -2.0597817 | -1.0177028 | 4.07761694 | 0.05712242 | 0.1546099 |
| Fam208a | 0.35267024 | 6.76686734 | 4.07669342 | 0.05714812 | 0.15463672 |
| Wdsub1 | -0.52233499 | 3.07045806 | 4.07505149 | 0.05719383 | 0.15471768 |
| Tpt1 | -0.39917749 | 9.33039457 | 4.07406908 | 0.05722112 | 0.15474899 |
| Tmod3 | -0.41202746 | 7.80433048 | 4.07327701 | 0.05724328 | 0.15476597 |
| Ndufb8 | -0.36765912 | 4.70216124 | 4.07223741 | 0.05727228 | 0.15480164 |
| Clr | -0.3408087 | 4.9718572 | 4.07105276 | 0.05730534 | 0.15484827 |
| Gpr37l1 | 0.58826839 | 3.0098003 | 4.06891183 | 0.05736514 | 0.15496712 |
| Eif4a1 | -0.2296973 | 7.37071226 | 4.06722866 | 0.05741221 | 0.15499479 |
| Ubap1l | 3.14034999 | -1.8406109 | 4.06685405 | 0.05742269 | 0.15499479 |
| Asb14 | 1.48543642 | 0.03318188 | 4.06684819 | 0.05742286 | 0.15499479 |
| Lsp1 | -0.5748064 | 3.52750994 | 4.06522364 | 0.05746834 | 0.15502704 |
| Ccdc158 | -1.8625644 | -0.7985472 | 4.06456145 | 0.05748689 | 0.15502704 |
| Gm10046 | 0.96427084 | 0.33357784 | 4.06440187 | 0.05749136 | 0.15502704 |
| Ercl | 0.23717724 | 7.67618624 | 4.06416094 | 0.05749811 | 0.15502704 |
| Vstm2b | 0.47476193 | 3.40517909 | 4.05992121 | 0.05761707 | 0.15530504 |
| Gabra6 | -5.4446792 | -2.0502817 | 4.14712718 | 0.05767787 | 0.15538409 |
| Bok | -0.4299486 | 4.24152508 | 4.05757884 | 0.05768292 | 0.15538409 |
| Timm17a | -0.3657885 | 5.75091044 | 4.05718522 | 0.05769399 | 0.15538409 |
| Dock5 | -0.2651753 | 6.84778138 | 4.05318923 | 0.05780654 | 0.15560211 |
| Tmsb10 | -0.525533 | 6.42642058 | 4.05273014 | 0.05781949 | 0.15560211 |
| Ttc9 | -0.3498287 | 4.23542392 | 4.05156381 | 0.05785239 | 0.15560211 |
| Ncam1 | 0.34672981 | 7.88637421 | 4.05119966 | 0.05786267 | 0.15560211 |
| Rassf4 | -0.5035555 | 3.13006963 | 4.05107654 | 0.05786615 | 0.15560211 |
| Cenpq | 0.81462379 | 2.30652887 | 4.05093121 | 0.05787025 | 0.15560211 |
| Zfp58 | -0.4806585 | 3.40158186 | 4.04977517 | 0.0579029 | 0.15562044 |
| Pcsk2os2 | 1.46735553 | 1.71436286 | 4.04932574 | 0.0579156 | 0.15562044 |
| Xkox | 0.7229082 | 2.04510831 | 4.04819182 | 0.05794765 | 0.15562044 |
| Ten1 | -0.5016635 | 3.27363178 | 4.04778453 | 0.05795917 | 0.15562044 |
| Gtpbp4 | -0.2273813 | 6.31664662 | 4.0475575 | 0.05796559 | 0.15562044 |
| Gbp4 | -0.5492804 | 2.90450644 | 4.04731715 | 0.05797239 | 0.15562044 |
| Foxd2 | -0.7688512 | 2.72874182 | 4.04578079 | 0.05801587 | 0.15568295 |
| Prdm1 | 0.88174718 | 2.00380264 | 4.04537141 | 0.05802747 | 0.15568295 |
| Lrcc8c | 0.39882119 | 4.05607155 | 4.04368459 | 0.05807526 | 0.15574098 |
| Greb1l | 0.53525352 | 3.07983397 | 4.0434859 | 0.0580809 | 0.15574098 |
| Prkcg | 0.3052638 | 8.20544702 | 4.04131931 | 0.05814236 | 0.15582171 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   |
|--------|----------|----------|----------|----------|----------|
| Coq10a | 0.75841965 | 2.21577455 | 4.04130313 | 0.05814822 | 0.15582171 |
| Dgkh   | 0.54867066 | 5.56521568 | 4.04047166 | 0.05816643 | 0.15582971 |
| Pes1   | 0.37787075 | 4.47611042 | 4.04007775 | 0.05817762 | 0.15582971 |
| Mafg   | 0.39112261 | 4.34596512 | 4.03950767 | 0.05819381 | 0.15583047 |
| Asph   | 0.23024322 | 6.75367526 | 4.03877457 | 0.05821464 | 0.15584365 |
| Sema6d | 0.31737379 | 6.16563267 | 4.03821232 | 0.05823063 | 0.15584385 |
| Piga   | -0.60608573 | 3.12116202 | 4.03732098 | 0.05825598 | 0.15586911 |
| Apmap  | 0.43667353 | 4.89839302 | 4.03307239 | 0.05837699 | 0.1561335 |
| Tox2   | 0.47753965 | 2.75127914 | 4.03273294 | 0.05838668 | 0.1561335 |
| Mc1r   | 2.25861831 | -1.8689924 | 4.03119105 | 0.05843067 | 0.1561837 |
| Tiram2 | 1.35461439 | 0.92254392 | 4.02913597 | 0.05848937 | 0.1561837 |
| Dcaf12l1 | 0.295875   | 5.6089195  | 4.02894865 | 0.05849473 | 0.1561837 |
| Mettl21c | 2.28388758 | -0.5973106 | 4.02777839 | 0.05852819 | 0.1561837 |
| Max    | -0.2980571  | 8.08866805 | 4.02776645 | 0.05852853 | 0.1561837 |
| Arx    | 0.60884334 | 2.59868068 | 4.0273706  | 0.05853985 | 0.1561837 |
| Hepacam| 0.45815847 | 4.23256353 | 4.0272165  | 0.05854426 | 0.1561837 |
| Csp1   | 0.50409116 | 4.05703911 | 4.02720082 | 0.05854471 | 0.1561837 |
| Mpp1   | -0.2532197 | 5.83676708 | 4.02705263 | 0.05854895 | 0.1561837 |
| Gata6  | -3.1125812  | 6.1379722  | 4.02395911 | 0.05863754 | 0.15635496 |
| Gm15441 | -2.672868  | -1.1953439 | 4.02338052 | 0.05865413 | 0.15635496 |
| Hrc    | 2.11597186 | -0.3257219 | 4.02312666 | 0.05866141 | 0.15635496 |
| Gm13298 | 0.4206834  | 5.02359113 | 4.02258317 | 0.058677  | 0.15635496 |
| Vps45  | 0.40527669 | 3.79900705 | 4.02083572 | 0.05872715 | 0.1564402 |
| Tmem45b| 0.76244925 | 2.23267171 | 4.01973375 | 0.0587588 | 0.1564402 |
| Rgs9bp | -0.2062898  | -0.2906914 | 4.01931332 | 0.05877088 | 0.1564402 |
| Pbd1   | -0.3588832  | 4.59042554 | 4.01924407 | 0.05877287 | 0.1564402 |
| 241015M2C | -0.5911004 | 2.73795877 | 4.01795  | 0.05881008 | 0.15646058 |
| Mir325 | 2.11950932 | -1.4886438 | 4.01786668 | 0.05881247 | 0.15646058 |
| Cnot1  | 0.26382197 | 8.09961705 | 4.01611786 | 0.05886228 | 0.15655193 |
| Fundc1 | -0.3169844 | 6.44940792 | 4.01432777 | 0.05891436 | 0.15657863 |
| Uvr1   | -0.2685007  | 5.56574296 | 4.01421174 | 0.0589177 | 0.15657863 |
| Trim23 | 0.28976901 | 6.39756976 | 4.01410458 | 0.05892079 | 0.15657863 |
| Mpv17  | -0.3417738  | 5.95198813 | 4.01023374 | 0.05903248 | 0.15674338 |
| Gak    | 0.26720214 | 6.70953113 | 4.00994993 | 0.05904068 | 0.15674338 |
| Gm4890 | -2.8127799  | -1.3919237 | 4.0098967 | 0.05904221 | 0.15674338 |
| Strap  | -0.2102609  | 7.46723644 | 4.00973382 | 0.05904679 | 0.15674338 |
| Ttc5   | -0.3063084  | 4.61761479 | 4.00883309 | 0.05907295 | 0.15677034 |
| Uhrf1bp1 | 0.46061929 | 3.87314258 | 4.00760961 | 0.05910833 | 0.15680601 |
| Shprh  | 0.43289245 | 5.96668018 | 4.00644729 | 0.05914197 | 0.15680601 |
| Zfp414 | -0.4256417  | 4.50877681 | 4.0061003 | 0.05915201 | 0.15680601 |
| Gria1  | 0.38742547 | 6.49915439 | 4.00601312 | 0.05915453 | 0.15680601 |
| Ncapd2 | 0.5616421  | 2.67232371 | 4.00479711 | 0.05918975 | 0.15680601 |
| Coq10a | -0.4105729  | 4.11376662 | 4.00478505 | 0.0591901 | 0.15680601 |
| Gene    | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   |
|---------|----------|----------|----------|----------|----------|----------|
| Cdk2ap2 | -0.4848522 | 3.39186092 | 4.00449696 | 0.05919845 | 0.15680601 |
| Wdr5    | -0.6589355 | 3.23638315 | 4.00238896 | 0.05925957 | 0.15691734 |
| Cep89   | -0.5941645 | 3.02045372 | 4.00138029 | 0.05928885 | 0.15691734 |
| 1700018A04 | -2.7615045 | -1.9461086 | 4.00092212 | 0.05930215 | 0.15691734 |
| Hilpda  | -0.6046583 | 2.63433833 | 4.00083908 | 0.05930456 | 0.15691734 |
| Osbp3   | 0.47219312 | 5.09364473 | 3.99915616 | 0.05935345 | 0.1570043 |
| Rpp14   | -0.320193 | 5.40968028 | 3.99831706 | 0.05937785 | 0.15701076 |
| Epn3    | -1.1907402 | 0.59555436 | 3.99796955 | 0.05938795 | 0.15701076 |
| Ect2l   | -2.1255801 | -0.6733218 | 3.99665097 | 0.05942632 | 0.15704555 |
| Mlkl    | -1.2715303 | 0.73842643 | 3.9964153 | 0.05943318 | 0.15704555 |
| Rasgrp4 | 1.36880901 | -0.1143058 | 3.99461686 | 0.05948556 | 0.15714157 |
| Irf3    | -0.5950377 | 2.69589221 | 3.99281897 | 0.05953797 | 0.15721485 |
| Gprasp2 | 0.40389288 | 6.17426828 | 3.99256446 | 0.05954545 | 0.15721485 |
| Cxcr6   | 1.36614374 | 0.03419362 | 3.9902055 | 0.05961426 | 0.15732928 |
| Selm    | -0.5759578 | 4.47033158 | 3.98997957 | 0.05962086 | 0.15732928 |
| Polr2c  | -0.4279644 | 4.23038674 | 3.98787089 | 0.0596825 | 0.15741725 |
| Vav3    | 0.45489051 | 3.29633522 | 3.98773974 | 0.05968634 | 0.15741725 |
| Bhlhe40 | -0.2369419 | 7.52034272 | 3.98689897 | 0.05971094 | 0.15743975 |
| Capn6   | -0.4604796 | 4.31627963 | 3.98468848 | 0.05977568 | 0.15756801 |
| Dnaja1  | -0.1987847 | 9.6899873 | 3.98315344 | 0.05982068 | 0.15762154 |
| Cdk10   | 0.39041221 | 4.11816307 | 3.98289809 | 0.05982817 | 0.15762154 |
| Ppp2r4  | -0.2929645 | 5.70209698 | 3.97442535 | 0.06007729 | 0.15802384 |
| Foxj1   | -1.1993102 | 0.73725854 | 3.97441272 | 0.06007766 | 0.15802384 |
| Slitrk6  | 0.98992844 | 0.63049086 | 3.97344725 | 0.06010612 | 0.15805626 |
| Sh2d4b  | 1.53438495 | -0.1638562 | 3.97136534 | 0.06016755 | 0.15817533 |
| 5430416O09 | -2.7252628 | -1.8621924 | 3.96964551 | 0.06021835 | 0.15820043 |
| Ly1     | 1.39909458 | -0.0769813 | 3.96949399 | 0.06022283 | 0.15820043 |
| Havcr2  | -0.9442889 | 1.70023594 | 3.96940205 | 0.06022555 | 0.15820043 |
| Tspan4  | 0.69838936 | 2.48387872 | 3.9660214 | 0.06032436 | 0.15839688 |
| Slc35e3 | 0.33420015 | 4.481118 | 3.96537888 | 0.06034459 | 0.15839688 |
| Mgtat4b | -0.4823818 | 2.87867883 | 3.96475599 | 0.06036305 | 0.15839688 |
| Nfkbia  | -0.5517176 | 2.74707365 | 3.96468947 | 0.06036502 | 0.15839688 |
| Ncbp2   | -0.2635723 | 6.54686575 | 3.96275149 | 0.06042248 | 0.15846653 |
| Mier1   | -0.2869927 | 6.44738241 | 3.96270311 | 0.06042392 | 0.15846653 |
| Lima1   | -0.372648 | 7.28145281 | 3.96076882 | 0.06048134 | 0.15857466 |
| Crebbp  | 0.24818959 | 8.16522246 | 3.95989942 | 0.06050716 | 0.15859993 |
| Cdc7    | 0.73473013 | 2.80603665 | 3.95923293 | 0.06052697 | 0.15860941 |
| Slc35b4 | -0.2668579 | 5.64591633 | 3.95789104 | 0.06056688 | 0.15865197 |
| Stx1b   | -0.3010116 | 6.40618772 | 3.9575975 | 0.06057561 | 0.15865197 |
| Gene    | Start | End   | Length | Start | End   |
|---------|-------|-------|--------|-------|-------|
| Wdr17   | 0.489 | 0.511 | 0.022  | 3.956 | 3.964 | 0.008 |
| Nmb     | 1.311 | 1.326 | 0.015  | 3.956 | 3.964 | 0.008 |
| Scyl3   | 0.311 | 0.529 | 0.218  | 3.958 | 3.967 | 0.009 |
| Tsen54  | 1.476 | -0.256 | 3.954 | 3.963 | 0.009 |
| Ghdc    | 0.567 | 2.230 | 1.663  | 3.953 | 3.962 | 0.009 |
| Cenpp   | 0.624 | 2.883 | 2.259  | 3.953 | 3.962 | 0.009 |
| Ndufc1  | -0.412 | 5.672 | 6.085  | 3.951 | 3.960 | 0.009 |
| Mid1ip1 | -0.474 | 6.088 | 6.562  | 3.950 | 3.959 | 0.009 |
| Glra2   | 0.426 | 3.319 | 3.893  | 3.950 | 3.959 | 0.009 |
| Prmt6   | -0.478 | 3.529 | 3.997  | 3.950 | 3.959 | 0.009 |
| Fyco1   | 0.288 | 6.724 | 6.92 | 3.949 | 3.958 | 0.009 |
| Minos1  | -0.314 | 6.485 | 6.90 | 3.948 | 3.957 | 0.009 |
| Kif14   | -2.639 | -1.315 | 3.946 | 3.955 | 0.009 |
| Amer1   | 0.392 | 4.179 | 3.887  | 3.946 | 3.955 | 0.009 |
| Hhip    | 0.375 | 4.439 | 4.064  | 3.946 | 3.955 | 0.009 |
| Ttll12  | 0.424 | 4.137 | 3.713  | 3.945 | 3.955 | 0.009 |
| 4833439L19Rik | -0.338 | 7.798 | 8.136 | 3.945 | 3.955 | 0.009 |
| Sacm1l  | 0.300 | 6.055 | 6.355  | 3.945 | 3.955 | 0.009 |
| Myo9a   | 0.382 | 3.863 | 3.481  | 3.945 | 3.955 | 0.009 |
| Cd300a  | 0.569 | 3.039 | 2.470  | 3.945 | 3.955 | 0.009 |
| 1700006F04Rik | 2.093 | -0.770 | 2.863 | 3.945 | 3.955 | 0.009 |
| Atl2    | 0.317 | 6.172 | 5.855  | 3.945 | 3.955 | 0.009 |
| Cd38    | 0.534 | 2.812 | 2.278  | 3.945 | 3.955 | 0.009 |
| Gm6787  | 2.394 | -0.474 | 2.868 | 3.945 | 3.955 | 0.009 |
| Knu     | -2.192 | -0.572 | 1.620 | 3.945 | 3.955 | 0.009 |
| Sppl2a  | 0.309 | 3.833 | 3.524  | 3.945 | 3.955 | 0.009 |
| Parp2   | -0.288 | 5.191 | 5.479  | 3.945 | 3.955 | 0.009 |
| Snrnp200| 0.367 | 6.891 | 6.524  | 3.945 | 3.955 | 0.009 |
| Cobl    | -0.284 | 7.986 | 8.270  | 3.945 | 3.955 | 0.009 |
| T2      | -1.297 | -0.187 | 1.110 | 3.945 | 3.955 | 0.009 |
| Nol9    | 0.472 | 3.577 | 3.105  | 3.945 | 3.955 | 0.009 |
| Zdhhc4  | -0.442 | 2.593 | 2.051  | 3.945 | 3.955 | 0.009 |
| Col13a1 | 0.800 | 2.288 | 1.488  | 3.945 | 3.955 | 0.009 |
| Usp6nl  | -0.287 | 5.912 | 5.625  | 3.945 | 3.955 | 0.009 |
| Shb     | -0.616 | 1.709 | 2.325  | 3.945 | 3.955 | 0.009 |
| Hmox1   | -0.561 | 2.839 | 2.378  | 3.945 | 3.955 | 0.009 |
| Rad51   | -1.069 | 0.795 | 1.864  | 3.945 | 3.955 | 0.009 |
| Ppp5k1  | 0.433 | 5.491 | 5.058  | 3.945 | 3.955 | 0.009 |
| Fam73a  | 0.293 | 6.034 | 5.741  | 3.945 | 3.955 | 0.009 |
| Pom121  | 0.288 | 6.323 | 6.035  | 3.945 | 3.955 | 0.009 |
| Smco3   | -0.487 | 2.694 | 2.207  | 3.945 | 3.955 | 0.009 |
| Jkamp   | -0.375 | 4.438 | 4.813  | 3.945 | 3.955 | 0.009 |
| St6galnac3 | 0.481 | 3.505 | 3.026  | 3.945 | 3.955 | 0.009 |
| Gene  | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Exoc2 | 0.3205408 | 5.89155414 | 3.91987254 | 0.06171012 | 0.15971235 |
| Rffl  | -0.4970183 | 3.08964374 | 3.91973835 | 0.0617142  | 0.15971235 |
| Rad51d| -0.3734838 | 5.28271466 | 3.9167395  | 0.06180544 | 0.15990622 |
| Npbrw1| -1.4457504 | 0.40904425 | 3.91463886 | 0.06186944 | 0.1600095 |
| Slc25a42| 0.28203864 | 4.84202156 | 3.91435711 | 0.06187803 | 0.1600095 |
| Dnah8 | 0.95101349 | 1.34852445 | 3.91267737 | 0.06192927 | 0.16006528 |
| Angel1| 0.83345184 | 1.42903695 | 3.91166467 | 0.06196019 | 0.16006528 |
| Kcnk3 | 0.57790855 | 1.8758333  | 3.91106597 | 0.06197847 | 0.16006528 |
| Opr1  | 0.41837362 | 3.3758433  | 3.91099324 | 0.06198069 | 0.16006528 |
| Lsm14b| -0.2568178 | 5.55529305 | 3.91057327 | 0.06199352 | 0.16006528 |
| Ccdc93| 0.31901502 | 5.01806247 | 3.91043843 | 0.06199764 | 0.16006528 |
| Cyp4f15| 0.8866721 | 1.15049786 | 3.90682604 | 0.06210814 | 0.16026565 |
| Swsap1| -0.4483609 | 3.36427758 | 3.9066764  | 0.06211273 | 0.16026565 |
| Zfp57 | 0.78623626 | 1.89585509 | 3.90629726 | 0.06212434 | 0.16026565 |
| Fam20a| 0.47888932 | 2.57563194 | 3.9047424  | 0.06217199 | 0.16034634 |
| Psg23 | 1.02893857 | 1.27596816 | 3.9037562  | 0.06220223 | 0.16037517 |
| 48334240 | 0.36067187 | 4.66209956 | 3.90305914 | 0.0622361  | 0.16037517 |
| 1810010H24 | 0.82227966 | 1.16088715 | 3.902251  | 0.06224842 | 0.16037517 |
| Cdh7  | 0.40571664 | 3.87185716 | 3.90121305 | 0.06228029 | 0.16037517 |
| Slc25a11| -0.2971334 | 5.65167589 | 3.90011354 | 0.06231408 | 0.16037517 |
| Prr3  | 0.31994353 | 4.200943  | 3.89948899 | 0.06233328 | 0.16037517 |
| Fam72a| -1.8598522 | 0.51817619 | 3.89940736 | 0.06233579 | 0.16037517 |
| Kcnd2 | 0.33764974 | 6.04117674 | 3.89855257 | 0.06236208 | 0.16037517 |
| 4930578E11 | 1.38699186 | -0.6153435 | 3.89841717 | 0.06236625 | 0.16037517 |
| Rnf157| 0.33803021 | 7.48577637 | 3.89837485 | 0.06236755 | 0.16037517 |
| Kif22 | 0.88783905 | 0.89356003 | 3.89768426 | 0.06238888 | 0.16037517 |
| Tufm  | -0.3750454 | 3.65762386 | 3.89637866 | 0.062429  | 0.16037517 |
| Cspg5 | 0.34676751 | 5.25798228 | 3.89629711 | 0.06243151 | 0.16037517 |
| Ascc2 | 0.42965359 | 3.30241568 | 3.89591012 | 0.06244344 | 0.16037517 |
| Ebpl  | -0.7142164 | 2.36077055 | 3.89546014 | 0.0624573 | 0.16037517 |
| Cox11 | 0.33908033 | 3.91883494 | 3.89518662 | 0.06246573 | 0.16037517 |
| Lnp1  | 0.33835511 | 4.27239562 | 3.89444515 | 0.06248859 | 0.16037517 |
| Nrxn3 | 0.38932755 | 8.1011022  | 3.89428052 | 0.06249367 | 0.16037517 |
| Nubpl | -0.5462523 | 2.80469616 | 3.89374954 | 0.06251005 | 0.16037517 |
| Abcb8 | -0.3570154 | 4.05750279 | 3.89373099 | 0.06251062 | 0.16037517 |
| Fut9  | 0.39584881 | 7.1307687  | 3.89152063 | 0.06257885 | 0.16049634 |
| Mrps18b| -0.6256217 | 2.96801777 | 3.89113966 | 0.06259062 | 0.16049634 |
| Thy1  | -0.2557613 | 7.45923875 | 3.89057321 | 0.06260812 | 0.16049921 |
| Mtdh  | 0.25704942 | 6.76294372 | 3.88776687 | 0.06269492 | 0.16063422 |
| Fam154b| -0.9029194 | 0.89675354 | 3.88771941 | 0.06269639 | 0.16063422 |
| Cl30026I21 | -0.893503 | 1.06014838 | 3.88666389 | 0.06272907 | 0.16063422 |
| Zfp35 | -0.3023815 | 4.4899564  | 3.88622984 | 0.06274252 | 0.16063422 |
| Bet1l | -0.6327206 | 3.14726464 | 3.88622132 | 0.06274278 | 0.16063422 |
| Protein  | Value1  | Value2  | Value3  | Value4  | Value5  |
|----------|---------|---------|---------|---------|---------|
| Mum1     | 0.6553029 | 2.98551717 | 3.88082069 | 0.06291035 | 0.16098735 |
| Postn    | -0.5412276 | 2.19193298 | 3.88071676 | 0.06291358 | 0.16098735 |
| Fam126a  | 0.3380209 | 4.10421944 | 3.87768746 | 0.06300781 | 0.16118636 |
| Pop5     | -0.3904903 | 4.39829903 | 3.87553965 | 0.06307471 | 0.16131539 |
| Fras1    | 0.65148827 | 4.82325395 | 3.87443224 | 0.06310924 | 0.16136156 |
| Copb1    | 0.252993  | 6.10022922 | 3.8723863 | 0.06317309 | 0.16148266 |
| Ddx47    | -0.2731195 | 5.91726426 | 3.87132481 | 0.06320625 | 0.16152526 |
| Gpr137c  | 0.3647285 | 4.87523066 | 3.87062663 | 0.06322806 | 0.1615338 |
| Ndufb11  | -0.3927708 | 5.59865569 | 3.87016262 | 0.06324257 | 0.1615338 |
| Slbp     | -0.277172  | 5.38558167 | 3.86758819 | 0.06332312 | 0.1615664 |
| Ctnnb2nl | 0.26115167 | 6.16218878 | 3.86754457 | 0.06332448 | 0.1615664 |
| Cntnap5b | 0.39423221 | 4.15925846 | 3.86695309 | 0.06334301 | 0.1615664 |
| D7Ertd715e| 0.72753286 | 4.14583375 | 3.8666266 | 0.06335324 | 0.1615664 |
| Zbed6    | 0.21242892 | 6.82936848 | 3.86635749 | 0.06336167 | 0.1615664 |
| H2-T24   | 0.46458939 | 4.91991878 | 3.86535629 | 0.06339305 | 0.1615664 |
| Rps28    | -0.4568367 | 5.54608439 | 3.86480089 | 0.06341046 | 0.1615664 |
| Gabarap  | -0.4252566 | 7.19834281 | 3.8649897 | 0.06341366 | 0.1615664 |
| Plscr2   | -0.5594617 | 4.4211804 | 3.86356068 | 0.06349937 | 0.1615664 |
| 1810043G02| -0.461485 | 2.74556179 | 3.86311748 | 0.06346328 | 0.1615664 |
| Tmem8b   | 0.35167756 | 5.07765794 | 3.86261957 | 0.06347891 | 0.1615664 |
| Naa50    | -0.226071 | 7.71159215 | 3.86240561 | 0.06348563 | 0.1615664 |
| Rbm2x    | -0.4262927 | 4.45926901 | 3.86171795 | 0.06350723 | 0.1615664 |
| Vdac3    | -0.2663742 | 6.33344942 | 3.86151898 | 0.06351348 | 0.1615664 |
| Lrcc8a   | 0.24781354 | 6.15744372 | 3.86109343 | 0.06352685 | 0.1615664 |
| Catsperg1| 1.95222536 | -1.0719641 | 3.86081346 | 0.06353565 | 0.1615664 |
| Ccdc14   | 0.7106837 | 1.86492625 | 3.85987926 | 0.06356502 | 0.1615664 |
| Wwtr1    | -0.3539304 | 6.61329783 | 3.85977374 | 0.06356834 | 0.1615664 |
| Mmp9     | -2.140609 | -0.7822995 | 3.85900932 | 0.06359239 | 0.1615664 |
| Eif4b    | -0.2071458 | 7.59682671 | 3.8584238 | 0.06361081 | 0.1615664 |
| Csp1     | 0.36831296 | 4.72589044 | 3.8582026 | 0.06361778 | 0.1615664 |
| Bbs1     | 0.37274242 | 5.65451516 | 3.85811609 | 0.0636205 | 0.1615664 |
| Cxxc5    | -0.2879315 | 6.44888195 | 3.85778713 | 0.06363086 | 0.1615664 |
| Zccch17  | -0.2891184 | 5.21882703 | 3.85550924 | 0.06370262 | 0.16169695 |
| Tmem117  | 0.50566358 | 3.28497422 | 3.85447499 | 0.06373524 | 0.16173782 |
| Ltn1     | 0.31519563 | 6.60022805 | 3.85310374 | 0.06377851 | 0.16180572 |
| Kcns2    | 0.38969832 | 3.87739497 | 3.85252083 | 0.06379692 | 0.16181051 |
| Adck5    | 0.88529761 | 1.01876887 | 3.85185826 | 0.06381785 | 0.16182169 |
| Dpp3     | -0.4510778 | 3.80938584 | 3.84790037 | 0.06394303 | 0.16209714 |
| Klra2    | 1.61539367 | 0.277556 | 3.847246 | 0.06396375 | 0.16210772 |
| Pcdha1   | 1.91490879 | -0.9128144 | 3.84624174 | 0.06399557 | 0.16214389 |
| Slc6a11  | 0.48931817 | 4.54546055 | 3.84575093 | 0.06401113 | 0.16214389 |
| Ccdc108  | 0.93390867 | 1.32172893 | 3.84500278 | 0.06403485 | 0.16215561 |
| Gm15133  | -2.8602347 | -1.759902 | 3.84456102 | 0.06404887 | 0.16215561 |
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 |
|-------|--------|--------|--------|--------|--------|
| Tfe3  | -0.3270507 | 5.30511724 | 3.84334875 | 0.06408734 | 0.16218297 |
| Pcdhga5 | 0.45636635 | 3.68672093 | 3.84317716 | 0.06409279 | 0.16218297 |
| Cap1  | -0.2483367 | 7.01686267 | 3.84197254 | 0.06413104 | 0.16223787 |
| Neto2 | 0.40193534 | 5.74021452 | 3.84069579 | 0.06417162 | 0.16229861 |
| Nln   | 0.33002554 | 4.43820929 | 3.83959046 | 0.06420678 | 0.16231777 |
| Ifnrl1| 3.01331211 | -0.4183534 | 3.83946529 | 0.06421076 | 0.16231777 |
| Paox  | 1.06011925 | 0.96696285 | 3.83770127 | 0.06426691 | 0.16234735 |
| Gcsh  | -0.3610581 | 5.68617672 | 3.83709976 | 0.06428607 | 0.16234735 |
| 1700017G19 | -1.2128143 | 0.70194423 | 3.83686785 | 0.06429346 | 0.16234735 |
| Uox   | -1.5923388 | -0.8076337 | 3.83665366 | 0.06430029 | 0.16234735 |
| Lrppc | 0.44646786 | 5.97469776 | 3.8364458 | 0.06430691 | 0.16234735 |
| Dip2a | 0.40724431 | 5.45376591 | 3.8353487 | 0.06434189 | 0.16235404 |
| Hspbap1 | 0.64725647 | 2.22163898 | 3.8347444 | 0.06436116 | 0.16235404 |
| Comm7 | -0.3421542 | 4.68371211 | 3.83472222 | 0.06436187 | 0.16235404 |
| Dpy30 | -0.4513193 | 4.81348672 | 3.83302873 | 0.06441593 | 0.16235404 |
| Echdc2 | -0.6323674 | 2.26378607 | 3.83207704 | 0.06446362 | 0.16235404 |
| Gm20751 | 1.9719124 | -1.2658381 | 3.83190671 | 0.06445177 | 0.16235404 |
| Tnfaip8 | -0.4827769 | 5.03713846 | 3.8305227 | 0.06449601 | 0.16235404 |
| Tox3  | 0.43432588 | 5.04677067 | 3.83024792 | 0.0645048 | 0.16235404 |
| Tgfb1i1 | -0.4416172 | 6.85124362 | 3.82962984 | 0.06452457 | 0.16235404 |
| 4930545L23f | 1.54941459 | 0.66038367 | 3.82956038 | 0.06452679 | 0.16235404 |
| Mir344c | 2.53085309 | -1.6073122 | 3.82950309 | 0.06452863 | 0.16235404 |
| Tnks2 | 0.23010388 | 8.33239635 | 3.82949327 | 0.06452894 | 0.16235404 |
| Grk4  | 0.57165671 | 4.63754829 | 3.82909585 | 0.06454166 | 0.16235404 |
| Arhgap33 | 0.48776997 | 5.35412079 | 3.82882693 | 0.06455027 | 0.16235404 |
| Serpinh1 | -0.4913867 | 4.25435092 | 3.82857968 | 0.06455818 | 0.16235404 |
| Scfd1 | 0.33516284 | 4.64103708 | 3.82780738 | 0.06458291 | 0.16237454 |
| Etohd2 | 0.85851913 | 1.40307632 | 3.82488123 | 0.06467671 | 0.16254208 |
| 2610005L07f | 0.34526553 | 6.35267353 | 3.82469349 | 0.06468273 | 0.16254208 |
| Nudt18 | -0.499823 | 3.81344971 | 3.82351281 | 0.06472063 | 0.16257936 |
| Derl3 | -2.0116265 | -1.2662247 | 3.82319716 | 0.06473077 | 0.16257936 |
| Lpar2 | -0.8126147 | 1.631953 | 3.82219722 | 0.06476289 | 0.16261834 |
| Naip2 | 1.14130371 | 0.32866889 | 3.82057096 | 0.06481517 | 0.1626764 |
| Clic4 | -0.4074651 | 8.64253682 | 3.82044471 | 0.06481923 | 0.1626764 |
| Prr16 | -0.3820666 | 4.14023859 | 3.81971178 | 0.06484281 | 0.1626939 |
| Gas8  | -0.5339526 | 3.60001775 | 3.81716477 | 0.06492482 | 0.16285796 |
| Med4  | -0.4270375 | 3.6371704 | 3.81546849 | 0.06497951 | 0.16292217 |
| Mip   | -1.9114703 | 0.37341419 | 3.81533908 | 0.06498368 | 0.16292217 |
| Dnajb7 | -1.6920196 | -1.1210456 | 3.89366362 | 0.06504254 | 0.16294087 |
| Rom1  | 0.78246357 | 1.51486163 | 3.8130826 | 0.06505652 | 0.16294087 |
| Spon1 | 0.34161859 | 5.35663672 | 3.8129407 | 0.06506111 | 0.16294087 |
| Senp7 | 0.21826349 | 6.97076646 | 3.81269813 | 0.06506894 | 0.16294087 |
| 9530052E02l | 2.24535393 | -0.9840896 | 3.81228535 | 0.06508228 | 0.16294087 |
| Gene   | Val1  | Val2    | Val3    | Val4    | Val5    |
|--------|-------|---------|---------|---------|---------|
| Adamts13 | 0.50395857 | 4.12095028 | 3.81125134 | 0.0651157 | 0.16294087 |
| A730017C20 | -0.2613341 | 5.8893004  | 3.81079909 | 0.06513032 | 0.16294087 |
| Dcbl1d1  | 0.68168875  | 1.98688471 | 3.81051076 | 0.06513965 | 0.16294087 |
| Topaz1   | -2.0079057  | 0.39184056 | 3.80998747 | 0.06515658 | 0.16294087 |
| Gstm4    | -0.6613303  | 1.67802119 | 3.80995939 | 0.06515749 | 0.16294087 |
| Gpt2     | 0.29493868  | 4.97022842 | 3.80914136 | 0.06518396 | 0.1629576 |
| Desl2    | -0.2664017  | 6.81310931 | 3.80872476 | 0.06519745 | 0.1629576 |
| Rbak     | 0.58754414  | 3.25545728 | 3.80792222 | 0.06522344 | 0.16298098 |
| Qrs1     | 0.49786239  | 2.65418748 | 3.80469549 | 0.06532807 | 0.16317304 |
| Utp15    | 0.34863949  | 5.04699468 | 3.80452455 | 0.06533362 | 0.16317304 |
| Trp53bp2 | 0.25771542  | 5.93993044 | 3.80389121 | 0.06535418 | 0.16318278 |
| Klk11    | -4.3746313  | -1.816411  | 3.88297394 | 0.06537647 | 0.16319684 |
| Vps13b   | 0.45116783  | 6.99017199 | 3.80222428 | 0.06540833 | 0.16321789 |
| Aldh1b1  | 1.12587298  | 0.04492689 | 3.80191973 | 0.06541823 | 0.16321789 |
| B230217O12 | -0.6697465 | 1.77765777 | 3.80108599 | 0.06544534 | 0.16324395 |
| G2e3     | 0.40516774  | 4.38339843 | 3.7988548 | 0.06551795 | 0.16335816 |
| Wipi1    | -0.4273144  | 4.24351571 | 3.79830974 | 0.06553537 | 0.16335816 |
| Lin7b    | -0.381695   | 3.68429884 | 3.79814221 | 0.06554116 | 0.16335816 |
| Mtfr2    | 2.62814612  | -1.0937227 | 3.79255238 | 0.06572355 | 0.16371749 |
| Cav2     | -0.3879497  | 5.18438214 | 3.79230767 | 0.06573155 | 0.16371749 |
| Nfe2     | -2.9325555  | -1.1396766 | 3.79218769 | 0.06573547 | 0.16371749 |
| 4932443I19R | 2.56714899 | -1.4886467 | 3.79049905 | 0.06579069 | 0.16379367 |
| Plxn2b   | 0.31254851  | 4.78627518 | 3.79022994 | 0.0657995 | 0.16379367 |
| Rhq      | -0.3304215  | 6.22370793 | 3.78863358 | 0.06585176 | 0.16386193 |
| Prrc2c   | 0.34647992  | 10.0574127 | 3.7883707 | 0.06586038 | 0.16386193 |
| Srp68    | -0.2763899  | 5.94571397 | 3.7876687 | 0.06588338 | 0.16387325 |
| Arhge2f5 | -0.311788 | 5.31720204 | 3.78672891 | 0.06591418 | 0.16387325 |
| Zfp36    | -0.5866382 | 4.95134142 | 3.78620537 | 0.06593135 | 0.16387325 |
| Dagla    | 0.30863885  | 5.43864015 | 3.78619048 | 0.06593184 | 0.16387325 |
| Tmco6    | 0.6991454  | 1.74919843 | 3.78520562 | 0.06596416 | 0.16389095 |
| Gpr61    | 0.67434071 | 1.32576376 | 3.78495362 | 0.06597243 | 0.16389095 |
| Aak1     | 0.33284374 | 9.72626354 | 3.78125836 | 0.06609385 | 0.16411384 |
| Serh1    | 1.44429696 | -0.4036211 | 3.78120334 | 0.06609666 | 0.16413834 |
| Kcnk2    | -0.2462364 | 7.24702257 | 3.78027548 | 0.06612619 | 0.16413528 |
| 2310039l15f | 0.72422584 | 2.85952207 | 3.77915562 | 0.06616306 | 0.16413528 |
| Mylk3    | 1.2480995  | 0.35676851 | 3.77911107 | 0.06616453 | 0.16413528 |
| Gpr21    | 1.03620755 | 0.86234498 | 3.77890472 | 0.06617132 | 0.16413528 |
| Mapk3    | -0.3660701 | 7.23936848 | 3.77759653 | 0.06621443 | 0.16415167 |
| Nudt4    | -0.3616977 | 9.94797792 | 3.77716839 | 0.06622854 | 0.16415167 |
| Snhg1    | -0.4164875 | 4.49501652 | 3.77678023 | 0.06624134 | 0.16415167 |
| Heatr5b  | 0.37986094 | 5.48811715 | 3.77667051 | 0.06624946 | 0.16415167 |
| Gm14305  | -0.5194334 | 2.61102588 | 3.77523923 | 0.06629218 | 0.16422714 |
| Ctnbp2   | 0.41950816 | 6.72279741 | 3.77320596 | 0.06635934 | 0.16433287 |
| Gene    | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|---------|---------|---------|---------|---------|---------|---------|
| Nfkbiz  | 0.67200423 | 2.15685519 | 3.77290057 | 0.06636943 | 0.16433287 |
| Arf4    | -0.2815503 | 8.85386897 | 3.77242369 | 0.06638519 | 0.16433287 |
| Bmp4    | -0.6184106 | 7.4127385  | 3.76956283 | 0.06647985 | 0.16450976 |
| Smc2    | 0.36746594  | 4.51070417 | 3.76827767 | 0.06652243 | 0.16450976 |
| Rprml1  | -0.5768925 | 3.00857413 | 3.76819586 | 0.06652514 | 0.16450976 |
| Clrn1   | 2.71920488  | -1.0221017 | 3.76811893 | 0.06652769 | 0.16450976 |
| B3gnt3  | -1.9630073  | -0.0407022 | 3.76747354 | 0.06654908 | 0.16450976 |
| Zfp459  | 0.6394622  | 3.00448716 | 3.76644127 | 0.06658332 | 0.16450976 |
| Unc5a   | 0.36925259  | 4.9158948  | 3.76637144 | 0.06658563 | 0.16450976 |
| Khsrp   | -0.261278  | 6.76865432 | 3.7657663 | 0.06660571 | 0.16450976 |
| Ict1    | -0.4953873  | 4.30702121 | 3.76561129 | 0.06661086 | 0.16450976 |
| Dlk2    | 0.70294142  | 1.71967125 | 3.7650166 | 0.0666306  | 0.16450976 |
| Khl4    | 0.30734462  | 4.81035219 | 3.76388913 | 0.06666804 | 0.16450976 |
| Cpsf2   | 0.24675104  | 6.35806903 | 3.76380835 | 0.06667073 | 0.16450976 |
| Nck2    | -0.3368819  | 4.64343953 | 3.76347489 | 0.06668181 | 0.16450976 |
| Arhgef3 | 0.35555057  | 5.69113974 | 3.7627251 | 0.06670673 | 0.16450976 |
| Tsc2    | 0.38267144  | 5.85466584 | 3.76266972 | 0.06670857 | 0.16450976 |
| Ucma    | 2.92988378  | -0.7750345 | 3.75797378 | 0.06686491 | 0.16466235 |
| Gbp11l  | -0.3023715  | 6.29620693 | 3.75710242 | 0.06689396 | 0.16466235 |
| D930015M010Rik | 1.68529731 | 0.26353852 | 3.75680089 | 0.06690402 | 0.16466235 |
| Yars2   | -0.3407165  | 4.04331491 | 3.75666762 | 0.06690846 | 0.16466235 |
| Klc2    | -0.3994297  | 5.48248672 | 3.75662692 | 0.06690982 | 0.16466235 |
| Col5a1  | 0.42958045  | 3.40369357 | 3.75651406 | 0.06691359 | 0.16466235 |
| Usp47   | 0.194875    | 7.1442615 | 3.75639033 | 0.06691772 | 0.16466235 |
| Tbc1d9  | 0.30922347  | 5.7477432 | 3.75593986 | 0.06693275 | 0.16466235 |
| Fbxl17  | 0.2667093   | 8.00944252 | 3.75557377 | 0.06694497 | 0.16466235 |
| Trpm2   | 0.57706898  | 3.5551595 | 3.75553695 | 0.0669462 | 0.16466235 |
| Lrfn5   | 0.38556375  | 5.23599728 | 3.75526259 | 0.06695536 | 0.16466235 |
| Ash2l   | 0.2745367   | 5.00464747 | 3.75384282 | 0.06700278 | 0.16473761 |
| Trnp1   | -0.2740448 | 6.17704548 | 3.75328837 | 0.06702131 | 0.16474182 |
| Gm6402  | 0.56278862  | 1.77517024 | 3.75159895 | 0.06707781 | 0.16480082 |
| Nup37   | -0.850388   | 1.22698112 | 3.75142399 | 0.06708366 | 0.16480082 |
| Ppp1ca  | -0.4372257  | 5.51876175 | 3.75106172 | 0.06709579 | 0.16480082 |
| Eph3    | 0.47882117  | 2.92841282 | 3.74974985 | 0.06713971 | 0.16480324 |
| Gm9159  | 0.85037331  | 2.04989357 | 3.74957708 | 0.0671455  | 0.16480324 |
| Zfp445  | 0.31624923  | 6.82886788 | 3.74952495 | 0.06714724 | 0.16480324 |
| Fbxo9   | -0.2300549  | 6.44977445 | 3.74605849 | 0.06726348 | 0.16496222 |
| Al427809 | -1.3243056 | 1.2099746 | 3.74493372 | 0.06730125 | 0.16496222 |
| Hnrrnu  | 0.25035176  | 8.63388312 | 3.74443113 | 0.06731813 | 0.16496222 |
| Dnajc2  | -0.2711303  | 6.43593183 | 3.74442   | 0.0673185  | 0.16496222 |
| Phf21a  | 0.26667645  | 6.60498082 | 3.74437222 | 0.06732011 | 0.16496222 |
| Otop2   | 2.03876574  | -0.9323722 | 3.74375927 | 0.06734071 | 0.16496222 |
| Birc3   | -0.5092287  | 4.01387721 | 3.74322493 | 0.06735867 | 0.16496222 |
| Gene     | Description | Start | End   | Length | Width | Height | Manual Width | Manual Height |
|----------|-------------|-------|-------|--------|-------|---------|--------------|---------------|
| Tmem209  | Description | 3.74298721 | 0.0673666 | 0.16496222 |
| Trpc7    | Description | 3.7428443 | 0.06737348 | 0.16496222 |
| Scin     | Description | 3.74257782 | 0.06738043 | 0.16496222 |
| Rnf146   | Description | 3.7415788 | 0.06741404 | 0.1649732 |
| Gm2518   | Description | 3.74115933 | 0.06742816 | 0.1649732 |
| 4930488L21f | Description | 3.74013775 | 0.06746255 | 0.1649732 |
| Gm20172  | Description | 3.73989149 | 0.06747085 | 0.1649732 |
| Kri1     | Description | 3.73972071 | 0.0674766 | 0.1649732 |
| Gatad2b  | Description | 3.73884102 | 0.06750624 | 0.1649732 |
| Stra13   | Description | 3.73845654 | 0.06751921 | 0.1649732 |
| Eif3e    | Description | 3.73839329 | 0.06752134 | 0.1649732 |
| Dyrk2    | Description | 3.73674433 | 0.06757696 | 0.16503335 |
| Pcp2     | Description | 3.73671453 | 0.06757796 | 0.16503335 |
| Zfp704   | Description | 3.73540305 | 0.06762224 | 0.16508112 |
| Vmn1r65  | Description | 3.7351368 | 0.06763123 | 0.16508112 |
| Gm16062  | Description | 3.73348811 | 0.06768694 | 0.16514617 |
| Cyp2b10  | Description | 3.73335038 | 0.0676916 | 0.16514617 |
| Kndc1    | Description | 3.73038264 | 0.06779203 | 0.16535001 |
| Lrc36    | Description | 3.72979022 | 0.0678121 | 0.16535779 |
| Fnbp1    | Description | 3.72742687 | 0.06789223 | 0.16549195 |
| Trim71   | Description | 3.72683088 | 0.06791245 | 0.16549195 |
| Rnls     | Description | 3.72667317 | 0.06791781 | 0.16549195 |
| Nap1l1   | Description | 3.72519029 | 0.06796816 | 0.16555676 |
| Cpt1a    | Description | 3.72441875 | 0.06799438 | 0.16555676 |
| Rpl15    | Description | 3.72439723 | 0.06799511 | 0.16555676 |
| Tmem204  | Description | 3.72280143 | 0.06804937 | 0.1656477 |
| 1700034H15 | Description | 3.72221726 | 0.06806925 | 0.16565492 |
| Nsd1     | Description | 3.72046855 | 0.06812878 | 0.16573603 |
| Dusp15   | Description | 3.72024448 | 0.06813642 | 0.16573603 |
| Rsu1     | Description | 3.71825202 | 0.06820434 | 0.16581997 |
| Dolpp1   | Description | 3.71823896 | 0.06820478 | 0.16581997 |
| Mief2    | Description | 3.71647974 | 0.06825907 | 0.16591079 |
| Micu2    | Description | 3.71474894 | 0.06832394 | 0.16602725 |
| Psmd4    | Description | 3.71379024 | 0.06835671 | 0.1660657 |
| Mrpl18   | Description | 3.71247912 | 0.06840157 | 0.1660969 |
| Msrbl    | Description | 3.71155996 | 0.06843303 | 0.1660969 |
| Donson   | Description | 3.7114682 | 0.06843617 | 0.1660969 |
| Eef1a1   | Description | 3.71143268 | 0.06843739 | 0.1660969 |
| Eef1d    | Description | 3.70556348 | 0.0686387 | 0.16654423 |
| Ppfia4   | Description | 3.70460206 | 0.06867174 | 0.1665735 |
| Pld5     | Description | 3.70385133 | 0.06869756 | 0.1665735 |
| Spast    | Description | 3.7037285 | 0.06870178 | 0.1665735 |
| C920025E04l | Description | 3.70294911 | 0.0687286 | 0.16659728 |
| Gene       | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Gnpda1     | -0.3133425 | 4.59177892 | 3.70199388 | 0.06876148 | 0.16663574 |
| Pdcd5      | -0.3004563 | 6.90457778 | 3.70071456 | 0.06880554 | 0.16670128 |
| Scg2       | 0.32769452 | 6.44632555 | 3.69924699 | 0.06885612 | 0.16678258 |
| Kcp        | 1.7022899 | 0.03723685 | 3.69815645 | 0.06889374 | 0.16683245 |
| Heatr2     | -0.3289084 | 4.21724217 | 3.69674508 | 0.06894246 | 0.16690917 |
| Rohj       | -0.4545748 | 5.38522687 | 3.69543067 | 0.06898787 | 0.16696871 |
| Dyrk3      | -0.7994358 | 1.85283218 | 3.69495349 | 0.06900437 | 0.16696871 |
| Bin3       | 0.51338299 | 2.93786398 | 3.69455349 | 0.0690182 | 0.16696871 |
| Siva1      | -0.6915066 | 2.66080766 | 3.69245491 | 0.0690908 | 0.16710309 |
| Dock10     | 0.47336137 | 5.74765679 | 3.6912229 | 0.06913347 | 0.16716501 |
| Ctse       | 1.65416121 | -0.3797391 | 3.68963394 | 0.06918854 | 0.16722013 |
| Col19a1    | 0.57036865 | 3.91312099 | 3.68948106 | 0.06919385 | 0.16722013 |
| Slc6a18    | 0.85514974 | 1.13879394 | 3.68822975 | 0.06923726 | 0.16722013 |
| Dhtkd1     | 1.16140436 | 1.49539204 | 3.68813921 | 0.0692404 | 0.16722013 |
| Hnf1a      | -1.9253017 | -0.9538867 | 3.68810399 | 0.06924162 | 0.16722013 |
| BC031181   | -0.3867193 | 6.05618873 | 3.68691318 | 0.06928296 | 0.16727873 |
| Tead4      | 1.89692695 | 0.04047983 | 3.68512305 | 0.06934517 | 0.16738766 |
| Crocc      | 0.82573451 | 2.06079015 | 3.68420023 | 0.06937726 | 0.16742387 |
| H2afj      | -0.5404098 | 3.5416245 | 3.68277227 | 0.06942696 | 0.16750253 |
| 2310022A10 | -0.4274301 | 3.59590026 | 3.68187809 | 0.06945809 | 0.16751365 |
| Zfp764     | -0.6890868 | 2.98678652 | 3.68135801 | 0.06947621 | 0.16751365 |
| Kif1b      | 0.34231376 | 9.93094244 | 3.68116691 | 0.06948287 | 0.16751365 |
| Lin7c      | -0.2305088 | 7.8688952 | 3.67959294 | 0.06953774 | 0.16754933 |
| Atp5c1     | -0.2690899 | 8.18712895 | 3.67940479 | 0.06954431 | 0.16754933 |
| Man2c1     | 0.67292839 | 2.65960172 | 3.67909457 | 0.06955513 | 0.16754933 |
| Rps23      | -0.3748356 | 7.24528783 | 3.67876649 | 0.06956658 | 0.16754933 |
| Vit        | 0.88174209 | 2.21496262 | 3.67765305 | 0.06960544 | 0.16754933 |
| Taf13      | -0.2751514 | 6.57924145 | 3.67746637 | 0.06961196 | 0.16754933 |
| Acaca      | 0.42887717 | 5.67826567 | 3.6773105 | 0.0696174 | 0.16754933 |
| Abcf3      | -0.3341833 | 5.02089209 | 3.67307073 | 0.06976566 | 0.16776492 |
| Slc6a8     | -0.2630266 | 6.34157848 | 3.67259215 | 0.06978242 | 0.16776492 |
| Capza2     | -0.2236571 | 8.06231364 | 3.67254869 | 0.06978394 | 0.16776492 |
| Snora23    | 1.33386237 | 0.98538309 | 3.67189042 | 0.069807 | 0.16776492 |
| Eya4       | 0.74457243 | 2.43857973 | 3.67186826 | 0.06980777 | 0.16776492 |
| Top2b      | 0.24905839 | 8.14488493 | 3.67181186 | 0.06980975 | 0.16776492 |
| Tsen2      | 0.58446421 | 2.55053388 | 3.6697131 | 0.06988332 | 0.16790055 |
| Akr1c14    | -0.4237994 | 3.92824185 | 3.66676086 | 0.06998697 | 0.16810834 |
| Pvr        | 0.54874075 | 2.53603465 | 3.66576822 | 0.07002186 | 0.16815092 |
| Ccdc134    | 0.7319341 | 0.62097452 | 3.66397578 | 0.07008492 | 0.16822763 |
| Pcdhgb2    | 0.59474087 | 2.11965788 | 3.66301393 | 0.07011878 | 0.16822763 |
| Gms5803    | 1.46357929 | -0.6594237 | 3.66242005 | 0.0701397 | 0.16822763 |
| Hydin      | 1.21750746 | 0.40792578 | 3.66213289 | 0.07014981 | 0.16822763 |
| B3galt1    | 0.22792286 | 5.80671302 | 3.66199717 | 0.0701546 | 0.16822763 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Emc2   | -0.3006815 | 6.48024617 | 3.61865348 | 0.07170124 | 0.17013993 |
| Arhgap21 | 0.35551726 | 8.18769952 | 3.61749081 | 0.07174327 | 0.17019843 |
| Zbtb45  | 0.52193878 | 2.41541769 | 3.61663002 | 0.0717744 | 0.17023106 |
| Gad5    | -0.2466897 | 7.04557195 | 3.61452353 | 0.07185066 | 0.17031042 |
| Dohh    | -0.5018991 | 3.27307213 | 3.61443671 | 0.0718538 | 0.17031042 |
| Rad5l2  | 0.22701144 | 5.63481962 | 3.61426493 | 0.07186002 | 0.17031042 |
| Trpc1   | 0.3588145 | 4.59398598 | 3.61305354 | 0.07190393 | 0.17037325 |
| Dnmt3b  | 1.26739486 | 0.32546079 | 3.61244874 | 0.07192586 | 0.170384 |
| S100a10 | -0.5802517 | 5.84680724 | 3.61163087 | 0.07195552 | 0.17038574 |
| Anxa3   | -0.4644786 | 5.81377732 | 3.61146939 | 0.07196138 | 0.17038574 |
| Pspc1   | 0.34433202 | 5.2308124 | 3.60780569 | 0.07209447 | 0.1706596 |
| Fuom    | -0.445398 | 3.47949281 | 3.60330478 | 0.07225836 | 0.17092532 |
| Slc25a30 | 0.87924201 | 1.14282659 | 3.603229 | 0.07226112 | 0.17092532 |
| D030047H15 | 0.97798 | 0.23058066 | 3.60318186 | 0.07226284 | 0.17092532 |
| Tmem223 | -0.3677639 | 3.72335312 | 3.60280665 | 0.07227652 | 0.17092532 |
| Gpr133  | -0.6136359 | 2.64997106 | 3.60124262 | 0.07233359 | 0.17098678 |
| Sh2d7   | -0.9082264 | 1.00357488 | 3.60113763 | 0.07233742 | 0.17098678 |
| Lsm2    | -0.5570579 | 4.23845865 | 3.60061517 | 0.0723565 | 0.17099061 |
| S1pr5   | 0.6700558 | 2.05751533 | 3.59852544 | 0.07243285 | 0.17112977 |
| Ppp2r2d | -0.3158945 | 4.71076883 | 3.59557839 | 0.07254069 | 0.17126291 |
| Dhh3    | 0.47757978 | 2.78793217 | 3.59555522 | 0.07254154 | 0.17126291 |
| Uqcr10  | -0.4354447 | 5.90447573 | 3.59555202 | 0.07254166 | 0.17126291 |
| D7Ertd443e | 0.64279969 | 1.54308926 | 3.59446594 | 0.07258145 | 0.17127747 |
| Unc45b  | -2.5068934 | -0.6686464 | 3.59442923 | 0.0725828 | 0.17127747 |
| Ccdc39  | 0.47095932 | 4.3535668 | 3.59334301 | 0.07262262 | 0.17133016 |
| Ctbp1   | -0.3644906 | 5.30065741 | 3.59229163 | 0.07266119 | 0.17136366 |
| Trim66  | 0.43078217 | 5.4375356 | 3.59200226 | 0.07267181 | 0.17136366 |
| Cdhd3   | -1.264719 | 0.55645402 | 3.5905749 | 0.07272421 | 0.17143402 |
| Speg    | 0.31667057 | 5.8177323 | 3.59023648 | 0.07273665 | 0.17143402 |
| Nek7    | -0.2952688 | 6.94421238 | 3.58964798 | 0.07275827 | 0.17144373 |
| Dan5    | -0.3979582 | 3.55729578 | 3.58452425 | 0.07294686 | 0.17184677 |
| Kdelr3  | 0.8776897 | 1.07251434 | 3.58359682 | 0.07298105 | 0.17185705 |
| 4933428G20 | 0.85409176 | 1.69656661 | 3.58345435 | 0.07298631 | 0.17185705 |
| Endo    | -0.6586432 | 1.87124236 | 3.58286979 | 0.07300787 | 0.17186651 |
| Kcnip3  | -0.2036381 | 7.64498816 | 3.58201044 | 0.07303959 | 0.17189986 |
| 4930599N23 | -2.4896423 | -2.0599011 | 3.5806081 | 0.07309138 | 0.17198043 |
| Lgals9  | -0.4677478 | 4.40799855 | 3.57912741 | 0.07314611 | 0.17206787 |
| Ptgess3l | -1.0776148 | 1.05137096 | 3.57795576 | 0.07318872 | 0.17212676 |
| Trp53l13 | 1.58620302 | -0.2615405 | 3.57688299 | 0.07322916 | 0.17214902 |
| Dgkb    | 0.36596754 | 7.92645672 | 3.57677039 | 0.0732333 | 0.17214902 |
| Recq1   | 0.36858157 | 3.96390845 | 3.57493532 | 0.07330132 | 0.17226749 |
| Noc2l   | 0.39182876 | 4.00868273 | 3.57188761 | 0.07341439 | 0.17240067 |
| Dpysl2  | 0.25757774 | 8.72760806 | 3.57180012 | 0.07341764 | 0.17240067 |
| Gene       | Rnpc3 | Frg1   | 493141P19I | Prelid2   | Ptk2   | Luc7l   | Bhlhe22 | Fezf2   | Pgam1   | Ddgb2  | Ptges2  | Celf1   | Wdr82   | Dynlt1a | Bc1     | Chd1   | Wdr24   | Stx4a   | Proca1  | Rbm34  | Cd3g    | Lmo3    | S1c7a6  | Trappc6b | Hoga1   | Otulin  | 4930451C15I | Rtt1   | Pan3     | Dnajc4   | Sec16a  | Krt73   | Nxf1    | Fam183b  | Ddx31   | Tmem145  | Egfl6   | Tppp    | C630043F03I | Gm10220 | Uba52   | Grm8      | Arpc1b   |
|------------|-------|--------|------------|-----------|--------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
|            | 0.49783256 | 4.82241866 | 3.57166654 | 0.0734226 | 0.17240067 | -0.2676737 | 4.81586465 | 3.57125957 | 0.07343772 | 0.17240067 | 1.14429461 | 1.11634917 | 3.57052742 | 0.07346492 | 0.17240067 | -1.9784655 | -0.7033293 | 3.57031718 | 0.07347274 | 0.17240067 | 0.37448166 | 6.57805731 | 3.56962805 | 0.07349836 | 0.17240067 | 0.31251942 | 5.4931452 | 3.56961653 | 0.07349879 | 0.17240067 | -0.3144203 | 5.19943466 | 3.568052 | 0.07355699 | 0.1724623 | -0.2974617 | 5.18090564 | 3.56796376 | 0.07356027 | 0.1724623 | -0.2341119 | 9.43813812 | 3.56727202 | 0.07358603 | 0.17248139 | 0.76049936 | 1.05610744 | 3.56631051 | 0.07362184 | 0.17248421 | -0.480601 | 2.3907811 | 3.565978 | 0.07363423 | 0.17248421 | 0.2685941 | 8.13798273 | 3.56547427 | 0.073653 | 0.17248421 | -0.2178684 | 6.39638875 | 3.56469793 | 0.07368196 | 0.17248421 | 0.3021458 | 4.34694742 | 3.56469273 | 0.07368214 | 0.17248421 | 3.64651908 | -1.8486001 | 3.56440477 | 0.07369288 | 0.17248421 | -2.5362611 | -1.4040797 | 3.56292914 | 0.07374794 | 0.17251785 | 0.6245493 | 2.33608061 | 3.56168839 | 0.07379428 | 0.17263903 | -0.3320625 | 6.39747626 | 3.55947469 | 0.07387703 | 0.17279136 | -0.6232248 | 1.88584222 | 3.55885302 | 0.07390029 | 0.1728045 | -0.2548615 | 5.32933223 | 3.55746298 | 0.07395232 | 0.17288491 | -2.4887231 | -1.3715452 | 3.55633885 | 0.07399445 | 0.17288919 | -0.2869849 | 7.13282891 | 3.55622336 | 0.07399876 | 0.17288919 | -0.3320625 | 6.39747626 | 3.55947469 | 0.07387703 | 0.17279136 | -0.3057621 | 7.79666568 | 3.55540962 | 0.07402927 | 0.17289056 | -1.5979929 | -0.0458098 | 3.5549565 | 0.07404626 | 0.17289056 | -0.5278776 | 3.54519405 | 3.554573 | 0.07406065 | 0.17289056 | -1.2334788 | 0.31137663 | 3.55315679 | 0.0741138 | 0.17297342 | 0.63918347 | 2.57433777 | 3.55215525 | 0.07415141 | 0.17298523 | 0.22590854 | 6.70390034 | 3.55208151 | 0.07415418 | 0.17298523 | 0.60017594 | 2.40710364 | 3.55133878 | 0.07418209 | 0.17299524 | 0.26214172 | 6.43811088 | 3.5510275 | 0.07419379 | 0.17299524 | -1.961144 | -1.1365842 | 3.54886094 | 0.07427529 | 0.17308937 | 0.24943061 | 5.93111729 | 3.54867626 | 0.07428224 | 0.17308937 | -1.7011949 | 0.14856088 | 3.54854516 | 0.07428717 | 0.17308937 | 0.7651919 | 1.36652736 | 3.54787765 | 0.07431231 | 0.17309154 | 0.67995179 | 2.44946133 | 3.5465716 | 0.07436151 | 0.17309154 | 1.20332575 | 0.88646447 | 3.54643365 | 0.07436671 | 0.17309154 | -0.2243495 | 8.81381514 | 3.54603604 | 0.0743817 | 0.17309154 | -0.4171428 | 3.2595682 | 3.54559187 | 0.07439845 | 0.17309154 | 0.76320072 | 1.69414283 | 3.54546356 | 0.07440329 | 0.17309154 | -0.3916697 | 6.7196023 | 3.54523798 | 0.0744118 | 0.17309154 | 0.70087638 | 2.66462651 | 3.54362859 | 0.07447253 | 0.17319169 | -0.6189769 | 6.03862312 | 3.54290611 | 0.07449982 | 0.17321401 |
| Gene  | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Fam115a | 0.34314276 | 6.74609982 | 3.54228891 | 0.07452313 | 0.17322711 |
| Nt5m  | -0.4107507 | 3.91316768 | 3.54119623 | 0.07456443 | 0.17324644 |
| Cecr2 | 0.37153966 | 3.27743897 | 3.54113298 | 0.07456683 | 0.17324644 |
| Tamm41 | 0.62663656 | 2.28639379 | 3.54013452 | 0.07460459 | 0.17329308 |
| Unc13d | -1.9418471 | -0.8819921 | 3.5394775 | 0.07462945 | 0.17329652 |
| Sec22b | -0.2346359 | 7.09426359 | 3.53888585 | 0.07465185 | 0.17329652 |
| Zfp341 | -0.537839 | 3.38565362 | 3.53850851 | 0.07466613 | 0.17329652 |
| Tmtc3  | 0.38341763 | 5.40573068 | 3.53822595 | 0.07467684 | 0.17329652 |
| Samd14 | -0.6975538 | 2.17700552 | 3.5366369 | 0.07473705 | 0.17339517 |
| Kazald1 | -0.8031571 | 1.58188185 | 3.53590157 | 0.07476493 | 0.17340488 |
| P2rx7  | 0.67614963 | 2.03038646 | 3.53559294 | 0.07477664 | 0.17340488 |
| Tead1  | 0.29648509 | 7.27776457 | 3.5350304 | 0.07479798 | 0.17341332 |
| Kmo    | -1.0514401 | 0.99366397 | 3.53421253 | 0.07482903 | 0.17343764 |
| Usp49  | 0.41609029 | 3.96459954 | 3.53364276 | 0.07485066 | 0.17343764 |
| Gm16617 | -2.0724846 | -0.99522 | 3.53335487 | 0.07486159 | 0.17343764 |
| Gm9899 | -0.3637589 | 3.86221393 | 3.5320398 | 0.07491156 | 0.17348863 |
| Zfp319 | 0.41923114 | 3.1469779 | 3.53184361 | 0.07491902 | 0.17348863 |
| Setx   | 0.37755877 | 7.13268707 | 3.5303717 | 0.07497501 | 0.17357723 |
| Pcmt1  | -0.2151297 | 6.42797914 | 3.52934703 | 0.07501401 | 0.17362649 |
| Ptp4a3 | -0.4682244 | 3.47659249 | 3.52863673 | 0.07504106 | 0.17364806 |
| Sh3bp5 | -0.2679393 | 6.78191508 | 3.52753002 | 0.07508322 | 0.1737046 |
| Klf12  | -0.2145056 | 7.35340552 | 3.52612483 | 0.0751368 | 0.17374819 |
| Rpp25l | -0.7143605 | 2.05738718 | 3.5261055 | 0.07513754 | 0.17374819 |
| Zymym2 | 0.30740321 | 8.1176782 | 3.52504398 | 0.07517805 | 0.17380083 |
| Ncalc1 | -0.2306118 | 7.7043195 | 3.52340878 | 0.07524049 | 0.17390415 |
| Cacna1i | 0.43047233 | 4.05638113 | 3.52179191 | 0.0753023 | 0.17400594 |
| Cmya5  | 0.50922258 | 3.28475375 | 3.51967829 | 0.07538318 | 0.17408171 |
| Setd8  | -0.2795721 | 7.28392501 | 3.51944179 | 0.07539223 | 0.17408171 |
| Grtp1  | 0.56835048 | 3.25590908 | 3.51911942 | 0.07540458 | 0.17408171 |
| Armc4  | 1.49229359 | -0.9967115 | 3.51907779 | 0.07540617 | 0.17408171 |
| Tpm2   | -0.5219131 | 6.33843715 | 3.51650335 | 0.07550486 | 0.17426801 |
| Galt   | 0.30405209 | 4.43305 | 3.51578796 | 0.07553231 | 0.17426801 |
| Mir28b | 2.22537346 | -0.4985451 | 3.51558124 | 0.07554024 | 0.17426801 |
| Tmem97 | -0.6611505 | 2.13363819 | 3.5129823 | 0.07564008 | 0.17444374 |
| Fbxo43 | 1.15499636 | -0.5212013 | 3.51267119 | 0.07565204 | 0.17444374 |
| Tyr1p  | 4.56926959 | -1.86409 | 3.51172333 | 0.07568849 | 0.17448672 |
| Ddx21  | 0.27400306 | 4.80739924 | 3.50892204 | 0.07579635 | 0.17467853 |
| Il10ra | 1.42276775 | 0.14749932 | 3.50798784 | 0.07583235 | 0.17467853 |
| Eid3   | 2.92107 | -1.901409 | 3.50792055 | 0.07583495 | 0.17467853 |
| Crabp2 | -0.6254262 | 6.22136604 | 3.50771107 | 0.07584302 | 0.17467853 |
| Ttca   | -0.3894858 | 6.43366701 | 3.50596729 | 0.0759103 | 0.17479238 |
| Ndufs7 | -0.3574148 | 5.10040801 | 3.5010845 | 0.07594346 | 0.17480698 |
| Spdef  | -2.8203875 | -1.9795163 | 3.50483959 | 0.07595385 | 0.17480698 |
E130112N10  2.21586032  -0.6904843  3.50441679  0.07597018  0.17480698
Mblac1  -0.6139828  2.67170348  3.50375142  0.07599589  0.17482508
Pcadhc5  0.42527123  4.78780458  3.50263403  0.07603909  0.17487892
Flb  0.24438902  6.1926105  3.50222273  0.076055  0.17487892
Wtap  0.22498255  6.35981409  3.50135694  0.07608851  0.1749149
Cystm1  -0.6583278  2.13882184  3.49964827  0.07615468  0.17496264
Ptprg  0.26798479  6.91792331  3.49894146  0.07618207  0.17496264
Ptx3  -2.050294  -1.326802  3.49816913  0.07621201  0.17496264
Trp53bp1  0.41392379  5.47033742  3.49804387  0.07621687  0.17496264
2810442I21R  3.44615168  -2.1376449  3.49795222  0.07622042  0.17496264
Kcnk6  0.80634709  1.35946233  3.49771674  0.07622956  0.17496264
Tanc2  0.40397304  8.5132507  3.49759422  0.07623431  0.17496264
Cdr2  -0.5688869  2.74416149  3.49639547  0.07628083  0.17502839
Mcmdc2  0.72744198  2.5289707  3.49562392  0.07631078  0.17505613
Rnf181  -0.3210924  6.26670878  3.49401092  0.07637346  0.17513526
Sp9  0.65313121  1.30070133  3.49381584  0.07638104  0.17513526
Ik  -0.1957118  8.56539055  3.49158723  0.07646774  0.17529303
4933412E12r  -0.6506359  1.84800618  3.48976869  0.07653858  0.17534782
Xrcc6bp1  0.79731072  1.74874407  3.48969361  0.0765415  0.17534782
Agbl3  -0.434787  3.1280662  3.48951637  0.07654841  0.17534782
Gm4814  2.33634817  -1.5837911  3.48913569  0.07656325  0.17534782
Tuba1b  -0.2159887  9.23594797  3.48757969  0.07662394  0.17540137
Zkscan16  0.4217051  5.24616112  3.48755401  0.07662494  0.17540137
Rbm42  -0.3447034  4.24635712  3.48715923  0.07664035  0.17540137
Rapgef2  0.26908991  7.49215571  3.48508574  0.07672133  0.17549399
Serpina10  3.4912012  -1.9734045  3.48474635  0.07673459  0.17549399
Alg9  0.57928075  2.99543005  3.48417142  0.07675707  0.17549399
Abca3  0.40241719  4.11377564  3.48398972  0.07676417  0.17549399
Wnt2b  0.44787619  2.90172608  3.48383048  0.0767704  0.17549399
Hist1h4d  -0.6001869  2.81423744  3.48333929  0.07678961  0.17549696
Osbp1a  -0.2252834  8.12679639  3.48203078  0.07684082  0.17557302
Rpl36  -0.5229104  5.25284376  3.48144795  0.07686364  0.17558421
Klhl9  0.21164414  7.39308747  3.48032387  0.07690768  0.17564385
Wdr5b  -0.8580937  1.16772343  3.47857736  0.07697616  0.17575926
4930402H24  0.34174128  5.56917673  3.47759792  0.07701459  0.17580604
Pfdn5  -0.4966685  5.7391927  3.47620997  0.0770691  0.1758867
Ppih  -0.4744379  3.16833844  3.47543749  0.07709945  0.1758867
Frmd7  1.32660338  -0.1446833  3.47524367  0.07710707  0.1758867
Slitrk5  0.36576835  5.86905806  3.47487009  0.07712175  0.1758867
Rtn2  0.60048308  2.61842012  3.47427982  0.07714496  0.17589868
B4galnt1  -0.3159567  5.39993322  3.47360806  0.07717139  0.17590927
Ttc4  -0.3080232  3.91169362  3.47289417  0.07719948  0.17590927
Lgals3bp  -0.4660358  4.89866269  3.47245128  0.07721692  0.17590927
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Cebpd   | -0.8548768 | 1.35921377 | 3.47183068 | 0.07724136 | 0.17590927 |
| Arid1a  | 0.33280097 | 8.05983056 | 3.4712708 | 0.07726341 | 0.17590927 |
| Slc5a2a | 1.15723764 | 0.70323119 | 3.47119289 | 0.07726648 | 0.17590927 |
| Bex2    | -0.3264112 | 6.92183574 | 3.47096868 | 0.07727532 | 0.17590927 |
| Gsr1    | -0.3153042 | 5.27713659 | 3.46937741 | 0.07733805 | 0.17601117 |
| Atp6v0a4| 1.11240056 | 0.14184209 | 3.46787287 | 0.07739742 | 0.17609446 |
| Hnrnpc  | -0.2157571 | 7.27085951 | 3.46710567 | 0.07742772 | 0.17609446 |
| 2410076I21R | 0.95795168 | 0.47192172 | 3.46683243 | 0.07743851 | 0.17609446 |
| Wdyhv1  | -0.3555456 | 4.05496611 | 3.46662878 | 0.07744656 | 0.17609446 |
| B230312C02 | 2.86953178 | -1.0641934 | 3.46435479 | 0.07753646 | 0.17620802 |
| Nxpe4   | 0.43556621 | 2.96070174 | 3.46409579 | 0.0775467 | 0.17620802 |
| Cdr1    | -0.4664897 | 9.91723274 | 3.4637384 | 0.07756085 | 0.17620802 |
| Ints8   | 0.30216778 | 5.49096989 | 3.46354607 | 0.07756846 | 0.17620802 |
| P2rx5   | 2.18488676 | -0.9221441 | 3.46169365 | 0.07764182 | 0.17633377 |
| Ikzf4   | 0.27272972 | 4.19381993 | 3.46033049 | 0.07769585 | 0.17636066 |
| Ska3    | 0.66042204 | 1.45807061 | 3.46017844 | 0.07770188 | 0.17636066 |
| Homer1  | -0.2785344 | 8.40981841 | 3.45961228 | 0.07772434 | 0.17636066 |
| Rpp40   | 0.49813425 | 2.58937608 | 3.45922934 | 0.07773953 | 0.17636066 |
| Agpat6  | -0.3302022 | 4.13480936 | 3.45900592 | 0.0777484 | 0.17636066 |
| Msx2    | -0.8179467 | 2.29540939 | 3.45857595 | 0.07776546 | 0.17636066 |
| Slc7a5  | 0.3683756 | 4.14321219 | 3.45821773 | 0.07777968 | 0.17636066 |
| Tex40   | -0.857487 | 2.10217503 | 3.45654471 | 0.07784614 | 0.17637459 |
| Aif1    | -0.863908 | 2.15680055 | 3.45634044 | 0.07785426 | 0.17637459 |
| Tbc1d4  | 0.51961815 | 3.07730751 | 3.45625723 | 0.07785757 | 0.17637459 |
| Tubd1   | -0.8304569 | 1.56401701 | 3.4562501 | 0.07785785 | 0.17637459 |
| Cdk11b  | -0.1990481 | 7.39709748 | 3.45516157 | 0.07790114 | 0.17643184 |
| Ppp4r4  | 0.39169651 | 4.90833308 | 3.45466613 | 0.07792085 | 0.17643569 |
| Polq    | 0.80004898 | 2.63055267 | 3.45313413 | 0.07798183 | 0.17651314 |
| Invs    | 0.33147891 | 4.82609087 | 3.45290151 | 0.07799111 | 0.17651314 |
| Gpr12   | -0.4394317 | 4.05832662 | 3.45098112 | 0.07806763 | 0.17660237 |
| Dok3    | 1.83831654 | -1.3432992 | 3.45053399 | 0.07808546 | 0.17660237 |
| Rgs3    | -0.442365 | 4.10032418 | 3.44963084 | 0.07812149 | 0.17660237 |
| Trim11  | -0.4494732 | 2.75592502 | 3.44938268 | 0.0781314 | 0.17660237 |
| Cdc14b  | 0.38640618 | 4.35642075 | 3.44809414 | 0.07818285 | 0.17660237 |
| Pcdha10 | 1.35443083 | -0.3966167 | 3.44776975 | 0.07819581 | 0.17660237 |
| Gm19710 | 1.33841247 | 0.31012239 | 3.44767988 | 0.0781994 | 0.17660237 |
| Dock6   | 0.36373809 | 3.65249162 | 3.44753901 | 0.07820502 | 0.17660237 |
| Sgc3    | 0.38525232 | 6.66561104 | 3.44743321 | 0.07820925 | 0.17660237 |
| Rpl39   | -0.4487796 | 7.34060567 | 3.44696667 | 0.0782279 | 0.17660237 |
| Fkbp15  | 0.29354223 | 4.74414784 | 3.44694297 | 0.07822884 | 0.17660237 |
| Stoml2  | -0.3772462 | 4.28592508 | 3.44559183 | 0.0782827 | 0.17668282 |
| Tsga10  | 0.30906179 | 4.98707404 | 3.44514985 | 0.07830056 | 0.17668282 |
| Pomc    | 1.98597365 | 0.35685037 | 3.44459294 | 0.07832284 | 0.17669241 |
| Gene      | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|-----------|---------|---------|---------|---------|---------|---------|
| Zcchc8    | 0.34934052 | 3.8751708 | 3.44336971 | 0.07837182 | 0.1767622 |
| Pot1b     | 0.44138498 | 3.44286884 | 3.44121724 | 0.0784581 | 0.1769072 |
| Seh1      | -0.3298586 | 5.64471097 | 3.44069992 | 0.07847885 | 0.1769072 |
| 0610011F06l | -0.3797809 | 3.61598656 | 3.44000514 | 0.07850673 | 0.1769072 |
| Filip1     | 0.43824936 | 3.97005883 | 3.43956032 | 0.07852458 | 0.1769072 |
| Tmem181b-1 | 0.54230285 | 5.11164669 | 3.43836781 | 0.07857247 | 0.1769072 |
| Acyp1      | -0.3906844 | 5.19441005 | 3.43819721 | 0.07857933 | 0.1769072 |
| Trim21     | -0.4832084 | 3.83998389 | 3.43717481 | 0.07862042 | 0.1769072 |
| Coa5       | -0.2781259 | 7.00338621 | 3.43706483 | 0.07862484 | 0.1769072 |
| Ripk1      | -0.4346695 | 3.73532796 | 3.43668229 | 0.07864022 | 0.1769072 |
| Hrg        | -1.3821364 | 1.03122995 | 3.43563249 | 0.07868245 | 0.1769072 |
| Atp6v0d1   | -0.2578028 | 7.16095009 | 3.43542545 | 0.07869078 | 0.1769072 |
| Sult4a1    | -0.2297432 | 7.03888384 | 3.43539211 | 0.07869213 | 0.1769072 |
| BC030500   | -0.4126618 | 3.90057048 | 3.43534963 | 0.07869384 | 0.1769072 |
| Wdr47      | 0.36873021 | 6.50006207 | 3.43451221 | 0.07872755 | 0.1769072 |
| Chadl      | -0.7327143 | 1.07999139 | 3.43415988 | 0.07874174 | 0.1769072 |
| Slc25a43   | 2.60075301 | -1.5902955 | 3.43395943 | 0.07874981 | 0.1769072 |
| Speccl1    | -0.256753 | 6.43890441 | 3.43311816 | 0.0787837 | 0.1769072 |
| B4galt1    | -0.4221484 | 4.19173818 | 3.433103 | 0.07878432 | 0.1769072 |
| Ptges3     | -0.2810049 | 7.90167011 | 3.43214222 | 0.07882305 | 0.1769072 |
| Hspb7      | 1.00092608 | 0.47307852 | 3.43146226 | 0.07885047 | 0.1769072 |
| Camkmt     | -0.3161127 | 4.00481931 | 3.43034568 | 0.07889553 | 0.1769072 |
| Zfp329     | 0.27041263 | 6.15661559 | 3.43027158 | 0.07889852 | 0.1769072 |
| Ypel2      | -0.2098612 | 6.38247528 | 3.42947205 | 0.0789308 | 0.1769072 |
| Chmp6      | -0.510312 | 2.23547176 | 3.42845506 | 0.07897189 | 0.1769072 |
| Adhfe1     | -0.3533658 | 5.11547406 | 3.42765805 | 0.0790041 | 0.1769072 |
| Fam204a    | -0.377512 | 5.54557337 | 3.42741184 | 0.07901406 | 0.1769072 |
| Appl2      | 0.24132425 | 6.30559206 | 3.42731295 | 0.07901806 | 0.1769072 |
| Sac3d1     | -0.6420599 | 2.31542067 | 3.42731282 | 0.07901806 | 0.1769072 |
| Mrps30     | -0.4697375 | 3.23911452 | 3.4271831 | 0.07902331 | 0.1769072 |
| L1cam      | 0.44763996 | 6.82476182 | 3.42715384 | 0.07902449 | 0.1769072 |
| Kbtbd7     | 0.29424161 | 5.2378738 | 3.42710828 | 0.07902633 | 0.1769072 |
| Osbpl8     | 0.20561817 | 7.70354913 | 3.42697894 | 0.07903157 | 0.1769072 |
| Chad       | 3.2211573 | -1.747927 | 3.42696563 | 0.0790321 | 0.1769072 |
| Sec14l2    | -0.5642058 | 2.46746972 | 3.42613939 | 0.07906553 | 0.17694159 |
| Gm9767     | -1.8066458 | -1.0617499 | 3.42538908 | 0.0790959 | 0.17696912 |
| Slc39a11   | 0.62963846 | 1.72164444 | 3.42362677 | 0.07916729 | 0.17708839 |
| Rps24      | -0.3339354 | 7.28769221 | 3.42261831 | 0.07920817 | 0.17713939 |
| Sort1      | 0.26601509 | 7.68974878 | 3.42031188 | 0.07930176 | 0.17730822 |
| Tnkl       | -0.2277288 | 7.14529889 | 3.41889259 | 0.07935942 | 0.17739664 |
| Amph       | 0.30273237 | 6.92174511 | 3.4177273 | 0.0794068 | 0.17742233 |
| Stk17b     | -0.336236 | 5.75517255 | 3.4177189 | 0.07940714 | 0.17742233 |
| Cd46       | 1.21271429 | 1.16625754 | 3.41604535 | 0.07947524 | 0.17752182 |
| Gene      | 3'UTR Length | 5'UTR Length | Predicted RNAi Efficiency |
|-----------|--------------|--------------|--------------------------|
| Lrrtm1    | -0.3673359   | 4.64472738   | 3.41573395               |
| Smarcb1   | -0.3189289   | 4.78304177   | 3.41510132               |
| Prkcd     | -0.48        | 4.08542494   | 3.41430144               |
| Dock4     | 0.41067324   | 6.18838306   | 3.41311973               |
| Hspa12a   | 0.28046175   | 8.2681948    | 3.41271736               |
| Tshr      | 2.14739825   | -0.4251946   | 3.41266581               |
| Cd180     | -0.6368624   | 2.7357235    | 3.41243683               |
| BC005764  | 0.67190584   | 2.18317284   | 3.41145368               |
| Pcdhac1   | 1.30008206   | -0.0962579   | 3.41126986               |
| Slc26a1   | 1.66114242   | -0.6319388   | 3.41066411               |
| Arhgef2   | 0.45189384   | 5.56237743   | 3.40938543               |
| Pou3f3    | 0.29637189   | 5.33868191   | 3.40936013               |
| Zfp385b   | -0.2886147   | 6.65665764   | 3.40793842               |
| Cyp7b1    | 0.45385233   | 2.44135494   | 3.40784214               |
| Lphn2     | 0.24807278   | 6.35521224   | 3.40473804               |
| Zfand2a   | -0.2563064   | 7.00570716   | 3.40468767               |
| N1-MAR    | -0.3566749   | 5.07859103   | 3.40341392               |
| Snx27     | 0.20870687   | 7.29329358   | 3.40268722               |
| Mtx3      | 0.29418347   | 5.99207355   | 3.40196389               |
| Gp1ba     | 1.54581026   | 0.3865583   | 3.40190405               |
| Pm20d2    | -0.3021123   | 4.21869945   | 3.40139896               |
| Tex30     | -0.8084618   | 2.38532697   | 3.40111475               |
| Tmem219   | -0.7454775   | 2.53294204   | 3.40053626               |
| Nxt1      | 0.62044727   | 2.54312673   | 3.4001086                |
| Zfyve28   | 0.51585735   | 3.78121154   | 3.39917909               |
| Map3k6    | -0.5882933   | 1.76105039   | 3.39643823               |
| Cnot10    | 0.35978447   | 4.35910618   | 3.39586935               |
| Smad5     | -0.2452049   | 6.179103    | 3.39559621               |
| 2310009B15| -0.6970064   | 2.1245251    | 3.39534956               |
| Mageb16-ps| 1.72194226   | -0.6955082   | 3.3945962                |
| Aldh1a1   | -0.4341539   | 7.64304832   | 3.39458524               |
| Nppeps    | 0.30117251   | 6.32023894   | 3.39322678               |
| Vps4a     | -0.2721877   | 5.55781122   | 3.39283596               |
| Idua      | 0.43178486   | 3.57886831   | 3.39062821               |
| Hdac9     | 0.21738825   | 6.45270884   | 3.39030734               |
| Rnf14     | -0.191287    | 8.3873547    | 3.39012489               |
| 6430571L13f| -1.2465413   | 0.33278228   | 3.38997283               |
| Cacna2d2  | 0.40728595   | 4.99637062   | 3.3891327                |
| Map3k7cl  | 1.24706387   | 0.50452359   | 3.38900708               |
| Inpp5a    | -0.3182106   | 4.56294931   | 3.38891535               |
| Ndufa2    | -0.4041731   | 5.45859902   | 3.388641                |
| Exoc8     | 0.29439235   | 4.65866988   | 3.38820423               |
| Gene   | Value   | Value | Value | Value | Value | Value |
|--------|---------|-------|-------|-------|-------|-------|
| Atf3   | -1.4715665 | 1.54733601 | 3.38457388 | 0.08076854 | 0.17863058 |
| Tbc1d5 | 0.23098985 | 6.45387232 | 3.38224079 | 0.08086538 | 0.1788044 |
| Lman1  | 0.41578373 | 5.02057679 | 3.38174796 | 0.08088586 | 0.17880931 |
| Gpr135 | -1.7295261 | -0.6005813 | 3.38074359 | 0.0809276 | 0.17886123 |
| Psen2  | -0.5235173 | 5.2136911 | 3.37985301 | 0.08096464 | 0.1788947 |
| Lrc16b | 1.01032133 | 2.98873128 | 3.37908837 | 0.08099646 | 0.1788947 |
| Efhb2  | 0.82723033 | 0.67924051 | 3.37898315 | 0.08100083 | 0.1788947 |
| Fam228b| 0.90791453 | 1.62913522 | 3.37858249 | 0.08101751 | 0.1788947 |
| Rps3a1 | -0.3313952 | 7.93110802 | 3.37733505 | 0.08106946 | 0.17897284 |
| Myo1a  | 2.42903633 | -1.8296905 | 3.3746 | 0.0811835 | 0.1791421 |
| Snapin | -0.3549735 | 7.51446308 | 3.37250597 | 0.08127093 | 0.17933678 |
| Oaz1   | -0.3120519 | 5.13371728 | 3.37081828 | 0.08134148 | 0.17945204 |
| Pirb   | -1.2372825 | -0.2529225 | 3.37031391 | 0.08136258 | 0.17945816 |
| Mfsd6  | 0.32954875 | 7.207852 | 3.36858829 | 0.08143481 | 0.17957704 |
| Dctpp1 | -0.5683535 | 1.63545479 | 3.36672045 | 0.08151308 | 0.17970917 |
| Rpl17  | -0.3176153 | 6.86589986 | 3.3627996 | 0.08167765 | 0.17997463 |
| Trim9  | 0.37103167 | 8.22979145 | 3.36276135 | 0.08169726 | 0.17997463 |
| Chmp2b | -0.3488485 | 6.34152136 | 3.36211734 | 0.08170633 | 0.17997463 |
| Bbs2   | 0.34379594 | 5.17881808 | 3.36182846 | 0.08171848 | 0.17997463 |
| Xpr1   | 0.25342281 | 7.89515667 | 3.36104159 | 0.08175157 | 0.17997463 |
| Slc11a2| 0.32590856 | 4.99603711 | 3.36104018 | 0.08175163 | 0.17997463 |
| Slc25a20| -0.4327018 | 4.78265158 | 3.36064631 | 0.0817682 | 0.17997463 |
| Phc2   | -0.4020202 | 4.79911662 | 3.35980134 | 0.08180376 | 0.17996696 |
| Zfhx2  | 0.33900202 | 5.15266286 | 3.35956456 | 0.08181373 | 0.17996696 |
| Ube2h  | -0.2115941 | 7.70872382 | 3.3590458 | 0.08183558 | 0.1799746 |
| Fndc3b | -0.201242 | 5.7564573 | 3.35795529 | 0.08188152 | 0.18003522 |
| Gga2   | -0.362854 | 4.47761348 | 3.35729898 | 0.08190919 | 0.18005365 |
| Actn1  | 0.48794344 | 4.61802019 | 3.35686268 | 0.08192759 | 0.18005365 |
| Asgr2  | 3.0507376 | -2.1466861 | 3.35644487 | 0.08194505 | 0.18005365 |
| Eif3f  | -0.2951206 | 5.99474716 | 3.3549679 | 0.08200754 | 0.18015055 |
| Myom1  | -1.2837168 | 0.4210617 | 3.3511807 | 0.08216762 | 0.18045887 |
| Rcor1  | -0.2878616 | 5.10840281 | 3.3502599 | 0.08220666 | 0.18045887 |
| Mlc1   | 0.61086255 | 3.17657548 | 3.34905722 | 0.08225754 | 0.18045887 |
| Pitpnb | -0.2284909 | 6.1491041 | 3.34890473 | 0.082264 | 0.18045887 |
| Pgr    | -0.3371709 | 5.93249371 | 3.3488972 | 0.08226432 | 0.18045887 |
| Rps17  | -0.3066228 | 7.26328492 | 3.34889351 | 0.08226448 | 0.18045887 |
| 4930453N24 | -0.2739293 | 6.80666758 | 3.3483711 | 0.08228662 | 0.18045887 |
| Pank4  | 0.4726101 | 2.77003552 | 3.34812705 | 0.08229696 | 0.18045887 |
| Pcnp   | -0.2659423 | 7.86009019 | 3.34773228 | 0.0823137 | 0.18045887 |
| Smarca1| 0.29372375 | 5.63378935 | 3.34682226 | 0.0823523 | 0.1805031 |
| Gm10649| -1.7497898 | -1.0484694 | 3.34578741 | 0.08239622 | 0.18055896 |
| Limd2  | -0.3318171 | 4.46135496 | 3.34431922 | 0.08245858 | 0.18065519 |
| Gene          | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Avp          | 1.86390028 | -1.658286 | 3.34237929 | 0.08254106 | 0.18074732 |
| Akirin2      | -0.2999508 | 6.60891221 | 3.3423025 | 0.08254432 | 0.18074732 |
| Clcn4-2      | 0.22618887 | 6.19279501 | 3.34202842 | 0.08255599 | 0.18074732 |
| Cuedc2       | -0.3946473 | 4.43643921 | 3.34060821 | 0.08261644 | 0.1807795 |
| Ndufv3       | -0.4233645 | 5.13708218 | 3.34047947 | 0.08262192 | 0.1807795 |
| Dennd6a      | -0.2509647 | 6.86793009 | 3.34038254 | 0.08262605 | 0.1807795 |
| 6820408C15R  | -1.892737 | -0.5140302 | 3.33897735 | 0.08268593 | 0.1808701 |
| Spop         | 0.2091034 | 7.72348367 | 3.33815274 | 0.08272109 | 0.18090661 |
| Pitpna       | -0.1816097 | 8.72835352 | 3.33729332 | 0.08275775 | 0.18094639 |
| 2610528A11   | -2.5523626 | -1.5100274 | 3.33662684 | 0.08278619 | 0.18096819 |
| Ube2k        | -0.2034305 | 8.11082422 | 3.33511078 | 0.08285094 | 0.18106932 |
| Ost4         | -0.4492191 | 7.07732292 | 3.33405078 | 0.08289624 | 0.18112792 |
| SceI         | -0.4448779 | 3.33749651 | 3.33317373 | 0.08292761 | 0.18115603 |
| Actb         | -0.2825766 | 9.97274988 | 3.33287532 | 0.08294652 | 0.18116594 |
| Drp2         | 0.45840852 | 5.99951499 | 3.33141937 | 0.08300884 | 0.18121425 |
| Cebpg        | -0.2346335 | 6.39864754 | 3.33139785 | 0.08300976 | 0.18121425 |
| Ctcp         | -0.2119184 | 6.37279785 | 3.33005268 | 0.08306738 | 0.18129964 |
| Cep72        | 1.00698732 | 1.07004551 | 3.32652719 | 0.08321863 | 0.1815893 |
| Rab31        | -0.3135612 | 5.56481474 | 3.32504621 | 0.08328226 | 0.18168767 |
| Slc9a8       | -0.3799236 | 4.08268611 | 3.32429289 | 0.08331465 | 0.18171786 |
| Zfp511       | -0.6437915 | 2.57961167 | 3.32365743 | 0.08334199 | 0.18173701 |
| Alms1-ps2    | 0.92698387 | 0.45228043 | 3.32307225 | 0.08336717 | 0.18175145 |
| Ica1l        | 0.26508649 | 5.02285201 | 3.32219998 | 0.08340471 | 0.18179285 |
| Bcl2l11      | -0.4416838 | 5.05409116 | 3.3208036 | 0.08346487 | 0.18188349 |
| Tatdn1       | -0.2968437 | 4.60363615 | 3.32002556 | 0.0834984 | 0.1819161 |
| Naip5        | 0.70377412 | 1.51567196 | 3.31595878 | 0.08367396 | 0.18225804 |
| Gm2115       | -0.4910192 | 3.08649973 | 3.31402809 | 0.08375745 | 0.18239935 |
| Phf11d       | -0.7725542 | 1.52265086 | 3.31313567 | 0.08379608 | 0.1824249 |
| Mpp6         | -0.3756018 | 8.59069649 | 3.31185296 | 0.08385163 | 0.18252329 |
| Eed          | -0.3207904 | 4.49116874 | 3.30991808 | 0.08393551 | 0.1826168 |
| Cps3f3       | -0.475587 | 2.63719254 | 3.30951606 | 0.08395296 | 0.1826168 |
| Utp20        | 0.42416498 | 4.51937359 | 3.30919284 | 0.08396698 | 0.1826168 |
| Mrpl53       | -0.4132462 | 3.73890533 | 3.30914255 | 0.08396916 | 0.1826168 |
| Sirt3        | -0.3605917 | 3.59719105 | 3.30337166 | 0.08422004 | 0.18310099 |
| Zfp451       | 0.3410387 | 5.17462745 | 3.30316172 | 0.08422919 | 0.18310099 |
| 9430008C03I  | 0.73094949 | 1.71279956 | 3.30217221 | 0.0842723 | 0.18314558 |
| Pdcd4        | -0.2011169 | 7.48491951 | 3.30183276 | 0.08428709 | 0.18314558 |
| Nudt7        | -0.4137442 | 2.42761993 | 3.30096122 | 0.08432509 | 0.18318361 |
| Ccdc58       | -0.432515 | 3.02727777 | 3.30034091 | 0.08435215 | 0.18318361 |
| Flt1         | -0.3541343 | 4.99645471 | 3.30014504 | 0.0843607 | 0.18318361 |
| Hsd3b4       | 1.06149497 | 0.76477743 | 3.2996575 | 0.08438197 | 0.1831892 |
| Endov        | -0.3192839 | 4.5500775 | 3.29800396 | 0.08445418 | 0.18330533 |
| Clec11a      | -0.4759603 | 2.21982313 | 3.2971502 | 0.08449149 | 0.18334525 |
| Gene   | DQ267100 | Uppl | HaplN4 | Aqpl7 | 1700125H03 | Cdh22 | Ppp2r5a | Ppm1j | Mrgbp | Magee1 | Rps15 | Mical3 | Gm5089 | Gm1123 | Mpe1 | Slc32a1 | Ube2j1 | Ctgb | Zbb8a | Cacng3 | Ppp1r7 | Rab1 | Lancl2 | Farp1 | Cux2 | Dsg1c | Speer4b | 9130401M01 | Nudt19 | Stc2 | Ehmt1 | Tmem134 | Ap1s1 | Dilx1 | Rap1b | Sec11c | N4bp2l2 | Atps5 | Loxl2 | Gfpt2 | Tdrd5 | Aph1b |
|--------|----------|------|--------|-------|------------|-------|---------|-------|-------|--------|-------|--------|--------|--------|-------|--------|--------|-------|-------|--------|--------|-------|--------|-------|--------|--------|--------|-------|-------|--------|--------|-------|
|        | 1.17846339 | 2.42108416 | 0.27518437 | 1.12676946 | 1.87828587 | 0.79443789 | -0.2614289 | -2.0112684 | -0.9503886 | 0.36111613 | -0.4304912 | 0.37842529 | -0.4858179 | -2.5183917 | -0.8376177 | 0.40573093 | -0.2513988 | -0.373627 | 0.65957719 | -0.2388686 | 0.8376177 | 0.40573093 | -0.2326774 | -0.2106924 | 0.228085 | 0.37030764 | -1.5845179 | 0.87626778 | -0.2973068 | -0.3195512 | 1.12203434 | 0.44593937 | 0.45678101 | 0.41009024 |
|        | 0.15390844 | -1.5056241 | 6.04615777 | 0.05441588 | -0.4861726 | 1.76906801 | 5.75642456 | -1.8285793 | 0.49676204 | 6.91827672 | 6.36645525 | 6.27076941 | 7.89892062 | -2.3133754 | 0.69121084 | 4.04629258 | 7.45386094 | 5.68766544 | 2.95987828 | 5.64058481 | 3.26071698 | 9.05096433 | 3.28217285 | 8.49514295 | 3.59111264 | 5.64058481 | 7.31260704 | 9.05096433 | 3.28165567 | 3.26071698 | 3.28165567 | 3.28165567 | 3.28165567 |
|        | 0.329351247 | 3.2926436 | 3.2872037 | 3.28695443 | 3.28581022 | 3.28568005 | 3.28059995 | 3.28492485 | 3.28445037 | 3.2842907 | 3.2801886 | 3.28239961 | 3.28217285 | 0.8518503 | 0.8521339 | 0.8525305 | 0.8531234 | 0.8536037 | 0.8536246 | 0.8537569 | 0.8538997 | 0.8549392 | 0.8551629 | 0.8554307 | 0.8553624 | 0.8559189 | 0.8568249 | 0.8558305 | 0.8558932 | 0.8558713 | 0.8559189 | 0.8558182 | 0.8558846 | 0.8559682 | 0.8605184 | 0.8607783 | 0.8601419 | 0.8605280 | 0.8620498 | 0.8622376 |
|        | 0.08465068 | 0.08468875 | 0.08492758 | 0.08493854 | 0.08498888 | 0.08499461 | 0.08502015 | 0.08502786 | 0.08504876 | 0.08505579 | 0.08506777 | 0.08513915 | 0.08514915 | 0.08518503 | 0.08521339 | 0.0852305 | 0.08531234 | 0.08536037 | 0.08536246 | 0.08537569 | 0.08538997 | 0.08549392 | 0.08551629 | 0.08554307 | 0.08553624 | 0.08559189 | 0.08568249 | 0.08558305 | 0.08558932 | 0.08558713 | 0.08559189 | 0.08558182 | 0.08558463 | 0.08559682 | 0.08605184 | 0.08607783 | 0.08601419 | 0.08605280 | 0.08620498 | 0.08622376 | 0.08634525 | 0.08636097 | 0.08636516 | 0.08636516 | 0.08636516 |

**Note:** The table includes gene names and their corresponding values. The values are likely to be gene expression levels or similar metrics. The table format and values are consistent with typical biological data presentation.
| Gene   | Value  | Value  | Value  | Value  | Value  | Value  |
|--------|--------|--------|--------|--------|--------|--------|
| Nrk    | -0.8205936 | 1.47613572 | 3.25710802 | 0.08626313 | 0.18534945 |
| Ppp6c  | -0.3456988 | 6.26254495 | 3.25703528 | 0.08626639 | 0.18534945 |
| Irak2  | 0.33588149 | 3.65460377 | 3.25648591 | 0.08629222 | 0.18536411 |
| Prf18  | -0.277569 | 4.94999553 | 3.25603803 | 0.08631106 | 0.18536411 |
| Tmem252| 0.99677093 | -0.111035 | 3.25518811 | 0.08634916 | 0.18536475 |
| Vmp1   | 0.27049072 | 5.58892093 | 3.2544405 | 0.08638268 | 0.18536475 |
| 1810013L24f | -0.2204731 | 7.41829365 | 3.2543767 | 0.08638554 | 0.18536475 |
| Trim25 | -0.3501177 | 6.41306615 | 3.25434309 | 0.08638705 | 0.18536475 |
| Arfgap2| -0.4218654 | 4.17412182 | 3.2534277 | 0.08642812 | 0.18541226 |
| Sim1   | 1.54768703 | -0.605711 | 3.25199423 | 0.08649249 | 0.18546244 |
| Chfr   | 0.53127081 | 4.18743872 | 3.25156311 | 0.08651186 | 0.18546244 |
| Anapc15| -0.5123178 | 2.43938327 | 3.25094239 | 0.08653975 | 0.18546244 |
| Kank4  | -0.4959707 | 3.92980639 | 3.25024831 | 0.08657096 | 0.18546244 |
| Gpr149 | 1.01477601 | 0.73379147 | 3.25010078 | 0.08657759 | 0.18546244 |
| Aspscr1| 0.64488372 | 2.7002338 | 3.24987642 | 0.08658768 | 0.18546244 |
| Tmem65 | -0.21912128 | 8.11504766 | 3.24980655 | 0.08659082 | 0.18546244 |
| Ezhl   | -0.3246335 | 5.19034021 | 3.24933679 | 0.08661196 | 0.18546244 |
| Tcp1   | -0.1876495 | 7.08689799 | 3.24911542 | 0.08662192 | 0.18546244 |
| Ube2w  | -0.2150063 | 6.24687381 | 3.24836975 | 0.08665548 | 0.18549375 |
| Dhrs13 | -1.32470083 | -0.3668726 | 3.24766494 | 0.08668721 | 0.18552114 |
| Alkbh5 | -0.2616874 | 6.397967 | 3.24677869 | 0.08672714 | 0.18554473 |
| Rpl14-ps1 | -0.543457 | 2.59739712 | 3.24657945 | 0.08673612 | 0.18554473 |
| Ddi2   | -0.5764636 | 2.7742584 | 3.24449729 | 0.08683083 | 0.18562642 |
| Gm101  | 1.92311918 | -1.1663423 | 3.24428644 | 0.08683953 | 0.18562642 |
| Crk    | -0.2018085 | 7.7634951 | 3.24427017 | 0.08684027 | 0.18562642 |
| Fabp3  | -0.3903308 | 3.7126582 | 3.24372624 | 0.08686482 | 0.18562642 |
| Sf3b6  | -0.3144351 | 5.00952642 | 3.243335 | 0.08688248 | 0.18562642 |
| Trmt5  | -0.4257294 | 3.47428555 | 3.24299117 | 0.08689081 | 0.18562642 |
| Fastk  | -0.3677253 | 3.68472314 | 3.24279301 | 0.08690696 | 0.18562642 |
| Echdc1 | -0.594353 | 1.77405329 | 3.24206025 | 0.08694007 | 0.18565665 |
| Mfc2f  | 0.54437246 | 4.68359106 | 3.24146579 | 0.08696694 | 0.18567355 |
| Asxl3  | 0.64706376 | 4.1941141 | 3.24054718 | 0.08700848 | 0.18572176 |
| Gprrc5c| -0.5665901 | 3.07802592 | 3.23806347 | 0.08712091 | 0.18588768 |
| Sox10  | 0.39147745 | 4.29225309 | 3.23712488 | 0.08716344 | 0.18588768 |
| Suelg1 | -0.2874816 | 5.19103964 | 3.23683403 | 0.08717662 | 0.18588768 |
| Rbm26  | 0.2355186 | 7.13250946 | 3.23673032 | 0.08718132 | 0.18588768 |
| Abcc9  | 0.64244463 | 3.11914776 | 3.23660808 | 0.08718687 | 0.18588768 |
| Ppap2b | 0.37396019 | 6.43322826 | 3.23631682 | 0.08720007 | 0.18588768 |
| Exo5   | -0.460564 | 3.74028073 | 3.23533718 | 0.08724451 | 0.18593013 |
| Gpms2  | 0.54501201 | 2.5646379 | 3.23504102 | 0.08725795 | 0.18593013 |
| Phf7   | -1.1461589 | 0.91577903 | 3.23263536 | 0.08736721 | 0.18612245 |
| Aldoa  | -0.2100054 | 9.15691313 | 3.23163894 | 0.08741251 | 0.18617847 |
| Exd2   | 0.30261975 | 5.36403923 | 3.23072558 | 0.08745406 | 0.18622647 |
| Gene      | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Akr1e1    | -0.2662288 | 5.1974539 | 3.2286053 | 0.0875059 | 0.1863915 |
| Pclo      | 0.51838185 | 10.1329204 | 3.22740769 | 0.08760518 | 0.18646721 |
| Upb1      | 1.52894929 | -0.4929598 | 3.22690351 | 0.08762818 | 0.18646877 |
| Baz1b     | 0.21466424 | 7.83348427 | 3.22655674 | 0.08674399 | 0.18646877 |
| Tmem19    | 0.3674593 | 3.56691785 | 3.22422159 | 0.08775059 | 0.18660424 |
| Met       | -0.3918657 | 3.05753534 | 3.22407715 | 0.08775719 | 0.18660424 |
| Abcg4     | 0.41181622 | 4.08949237 | 3.22391029 | 0.08776482 | 0.18660424 |
| Coro7     | 0.38200259 | 4.16065774 | 3.22089578 | 0.08790268 | 0.18682244 |
| S1c25a53  | 0.59785202 | 2.57101255 | 3.22039933 | 0.08792541 | 0.18682244 |
| Qrich1    | -0.2075343 | 6.48425595 | 3.22037623 | 0.08792647 | 0.18682244 |
| 2510049J12F | -1.1308254 | 1.13682001 | 3.21972625 | 0.08795623 | 0.18682244 |
| Masp1     | 0.61735323 | 1.67919418 | 3.21958284 | 0.0879628 | 0.18682244 |
| Zfp369    | 0.31915257 | 5.24517541 | 3.21769891 | 0.08804916 | 0.18695631 |
| Tnnt3     | -2.9355545 | -1.5294982 | 3.21648309 | 0.08810494 | 0.18704321 |
| Zfp114    | -1.0971579 | 0.38684237 | 3.21564196 | 0.08814356 | 0.18707018 |
| Wdr73     | -0.2877412 | 4.41027299 | 3.21517352 | 0.08816507 | 0.18707018 |
| Stc1      | 0.58665311 | 2.90925401 | 3.21419045 | 0.08821024 | 0.18707018 |
| Prdm11    | 1.78000667 | -0.5723408 | 3.21382274 | 0.08822714 | 0.18707018 |
| Irf2bp2   | -0.1996312 | 8.43053574 | 3.21310792 | 0.08826001 | 0.18707018 |
| Ctps2     | 0.22528575 | 5.66905144 | 3.21286188 | 0.08827133 | 0.18707018 |
| B230209E15 | -0.3164568 | 6.31479577 | 3.21273454 | 0.08827719 | 0.18707018 |
| Lhfpl5    | -1.9603060 | -0.401819 | 3.21265432 | 0.08828088 | 0.18707018 |
| Las1l     | 0.32375092 | 4.97411249 | 3.21221398 | 0.08830114 | 0.18707018 |
| Robo2     | 0.2942357 | 6.52649214 | 3.21205137 | 0.08830862 | 0.18707018 |
| 1700047A11 | 2.45566808 | -1.7041524 | 3.21122913 | 0.08834647 | 0.18710989 |
| Atp6v1f   | -0.4563772 | 4.75645672 | 3.20978255 | 0.08841311 | 0.18716195 |
| Ddx25     | 0.42482841 | 4.1774863 | 3.20951339 | 0.08842551 | 0.18716195 |
| Prep      | 0.2469629 | 4.39806506 | 3.20894514 | 0.08845171 | 0.18716195 |
| Phax      | -0.2549484 | 5.38378733 | 3.20864137 | 0.08846572 | 0.18716195 |
| Pgpep1    | -0.4201709 | 4.21898306 | 3.20862248 | 0.08846659 | 0.18716195 |
| Dok2      | -1.4809811 | -0.7678923 | 3.2077629 | 0.08850624 | 0.18720541 |
| Card14    | -1.4143328 | 0.21782031 | 3.20680147 | 0.08855062 | 0.18725883 |
| Bhmt      | -2.5989422 | -1.2367822 | 3.20585211 | 0.08859446 | 0.18731111 |
| Atrio     | -0.3804986 | 3.49551033 | 3.20465956 | 0.08864597 | 0.18738718 |
| 9330182L06f | 0.3481853 | 5.05696034 | 3.20353922 | 0.08870138 | 0.18740201 |
| Ifnar1    | 0.28728491 | 5.75464592 | 3.20275384 | 0.08873772 | 0.18740201 |
| Fkbp4     | -0.3828429 | 5.92966816 | 3.20271222 | 0.08873965 | 0.18740201 |
| Ralgp1    | 0.34279216 | 6.58154748 | 3.20264695 | 0.08874267 | 0.18740201 |
| D33005016f | 1.14372384 | -0.4734021 | 3.20244013 | 0.08875224 | 0.18740201 |
| Thoc1     | 0.34292091 | 4.7671734 | 3.20188717 | 0.08877784 | 0.18741566 |
| Opa3      | -0.3811766 | 5.05372894 | 3.20008557 | 0.08886132 | 0.18751922 |
| Haghl     | -0.7461151 | 0.89350603 | 3.19904279 | 0.08890967 | 0.18751922 |
| S1pr4     | 1.21109384 | -0.8166348 | 3.1989316 | 0.08891483 | 0.18751922 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-------|---------|---------|---------|---------|---------|---------|
| Ola1  | -0.2018507 | 7.60669843 | 3.19874653 | 0.08892342 | 0.18751922 |
| Cd3eap | -0.4073028 | 3.59037109 | 3.19860262 | 0.08893009 | 0.18751922 |
| Slc4a11 | -2.0178255 | -0.2079535 | 3.19835119 | 0.08894176 | 0.18751922 |
| Gm6938 | 1.87343869 | -0.7268445 | 3.1971606 | 0.08899664 | 0.18759455 |
| Nostrin | -1.14709 | 0.87042759 | 3.19434229 | 0.08912803 | 0.1878269 |
| Tle4 | 0.29768087 | 6.40043195 | 3.19397275 | 0.08914522 | 0.1878269 |
| Aqp9 | -2.3949461 | -1.2215807 | 3.19262123 | 0.08920813 | 0.1878937 |
| Med25 | 0.42299964 | 2.48573837 | 3.19226512 | 0.08922472 | 0.1878937 |
| 9530051G07 | 0.92611491 | 0.85505439 | 3.19171572 | 0.08925031 | 0.1878937 |
| Zfp932 | 0.41330338 | 4.46617735 | 3.19162966 | 0.08925432 | 0.1878937 |
| Sri | -0.2665002 | 6.57914909 | 3.19137857 | 0.08926603 | 0.1878937 |
| Chmp2a | -0.4005741 | 5.63235119 | 3.1901335 | 0.08932407 | 0.1879065 |
| Rpl35a | -0.3851396 | 5.46905397 | 3.18971815 | 0.08934345 | 0.1879065 |
| Mturn | -0.2226055 | 6.37009665 | 3.18942357 | 0.08935719 | 0.1879065 |
| Cnpy4 | -0.3054996 | 4.55218705 | 3.18941749 | 0.08935748 | 0.1879065 |
| Micu3 | -0.2850021 | 7.58963231 | 3.18904557 | 0.08937483 | 0.1879065 |
| Lsm5 | 0.69328057 | 1.66590589 | 3.1880971 | 0.08942319 | 0.1879422 |
| Rpp30 | -0.3060767 | 3.992085 | 3.18771786 | 0.08943682 | 0.1879422 |
| Msantd4 | -0.2078522 | 7.3677747 | 3.18685563 | 0.08947771 | 0.1879422 |
| Asic2 | 0.30823664 | 5.16739371 | 3.18662919 | 0.08948769 | 0.1879422 |
| A630023P12 | 2.21114413 | -1.2681202 | 3.18662768 | 0.08948776 | 0.1879422 |
| Pfnd2 | -0.3296713 | 5.53679415 | 3.18547443 | 0.08954168 | 0.1879609 |
| Syngr1 | -0.2437459 | 6.81639169 | 3.1852698 | 0.08955125 | 0.1879609 |
| Mir376a | 1.7226912 | 0.06383784 | 3.18519816 | 0.0895546 | 0.1879609 |
| 4930479D17 | -0.8397519 | 1.0864378 | 3.18470269 | 0.08957778 | 0.1879609 |
| Kcna6 | 0.31917872 | 5.75091568 | 3.18431561 | 0.0895959 | 0.1879609 |
| Phldb1 | 0.29273235 | 4.12078655 | 3.18397842 | 0.08961168 | 0.1879609 |
| Cups7b | -0.4742372 | 3.71950173 | 3.18317708 | 0.08964921 | 0.18799914 |
| Ldhd | -0.7657136 | 1.85823546 | 3.18251234 | 0.08967993 | 0.18802331 |
| Ap3m1 | 0.23385617 | 5.66474037 | 3.18148169 | 0.08972866 | 0.1880611 |
| Tmtc4 | 0.3052568 | 4.07511298 | 3.18131756 | 0.08973635 | 0.1880611 |
| Psmb5 | -0.305427 | 5.10193767 | 3.17906679 | 0.08984197 | 0.18823509 |
| Dhdds | 0.28945255 | 4.89381283 | 3.17853007 | 0.08986717 | 0.18823509 |
| Mtmr3 | 0.23965029 | 6.04740863 | 3.17832036 | 0.08987702 | 0.18823509 |
| Tmem246 | 0.30906131 | 4.14919465 | 3.17769615 | 0.08990635 | 0.18825626 |
| Col4a3 | 1.300077 | 0.00043083 | 3.17682402 | 0.08994735 | 0.18826536 |
| Bcl2l1 | -0.4239631 | 4.44907231 | 3.17671177 | 0.08995263 | 0.18826536 |
| Myl6 | -0.3682337 | 7.87742737 | 3.17637728 | 0.08996836 | 0.18826536 |
| Tgds | 0.47785879 | 2.74649204 | 3.1753937 | 0.09001463 | 0.18832196 |
| Cops4 | -0.2284296 | 6.02394846 | 3.17453649 | 0.09005498 | 0.18835362 |
| Psm2a2 | -0.2837523 | 6.88666278 | 3.17425539 | 0.09006822 | 0.18835362 |
| Cdhr2 | 1.94725269 | -0.9457568 | 3.17232563 | 0.09015915 | 0.18843132 |
| Kctd20 | -0.5324447 | 3.14629532 | 3.17213199 | 0.09016828 | 0.18843132 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Abi3bp | 0.39060916 | 4.18280323 | 3.17187371 | 0.09018046 | 0.18843132 |
| Rps6   | -0.3622362 | 8.46228235 | 3.17183428 | 0.09018232 | 0.18843132 |
| 1700024B18 | 1.60773009 | -0.3069596 | 3.1705115 | 0.09024473 | 0.18852151 |
| Hic1   | -0.557347 | 3.26674791 | 3.16891862 | 0.09031996 | 0.18861956 |
| Cdc27  | 0.2482749 | 7.83018118 | 3.16870216 | 0.09033018 | 0.18861956 |
| Med13l | 0.36328817 | 6.48937418 | 3.16809629 | 0.09035882 | 0.1886343 |
| Ifitm6  | 1.22192674 | 0.49823614 | 3.16773807 | 0.09037575 | 0.1886343 |
| 2700069I18R | 0.91792528 | 0.80104733 | 3.16614323 | 0.0904512 | 0.18874955 |
| Yipf1  | 0.45014002 | 3.00966955 | 3.16575625 | 0.09046951 | 0.18874955 |
| Pbx2   | -0.3259768 | 4.84810198 | 3.16522385 | 0.09049472 | 0.18876194 |
| Zfp97  | 0.29957683 | 4.12311113 | 3.16442072 | 0.09053276 | 0.18880108 |
| Tnfrsf13c | -1.1800226 | 0.45441152 | 3.16321164 | 0.09059007 | 0.18880436 |
| Snx13  | 0.18085763 | 6.88848207 | 3.16319872 | 0.09059068 | 0.18880436 |
| Clvs2  | 0.42440213 | 4.43268842 | 3.16282396 | 0.09060845 | 0.18880436 |
| Hmmr   | 0.41855658 | 3.27664422 | 3.16262213 | 0.09061802 | 0.18880436 |
| Trim43c| 1.92146564 | -1.17469 | 3.16235464 | 0.09063071 | 0.18880436 |
| Esrp2  | 1.53518249 | -0.9592268 | 3.16188572 | 0.09065296 | 0.18881055 |
| Ppifbp1| 0.21212665 | 6.07535407 | 3.16105032 | 0.09069261 | 0.18883903 |
| Hsd3b3 | 0.99315355 | 0.3184857 | 3.16078537 | 0.09070519 | 0.18883903 |
| Gla    | 0.43496013 | 3.05440702 | 3.15886273 | 0.09079653 | 0.18895637 |
| Zfp939 | 0.6457567 | 2.67465555 | 3.15878706 | 0.09080013 | 0.18895637 |
| Hcfc1  | 0.27626699 | 6.90610262 | 3.15806067 | 0.09083467 | 0.1889881 |
| Tnip1  | -0.37812444 | 4.09255579 | 3.1561816 | 0.09092409 | 0.18910379 |
| Mxd1   | -0.2640071 | 6.02346775 | 3.15608092 | 0.09092889 | 0.18910379 |
| Tnfrsf14 | 2.74103237 | -1.8318768 | 3.15555551 | 0.09095391 | 0.18911568 |
| Ripk3  | -1.8602996 | -0.6316331 | 3.15463662 | 0.09097967 | 0.18916657 |
| Wasf2  | -0.2733591 | 6.44383348 | 3.15350741 | 0.09105153 | 0.18923516 |
| Fam120aos | -0.40172222 | 4.61883601 | 3.15313428 | 0.09106933 | 0.18923516 |
| Gm4013 | -2.5782655 | -1.6984571 | 3.15118165 | 0.09116254 | 0.18932715 |
| Peak1  | 0.3440458 | 6.77754492 | 3.1508889 | 0.09117652 | 0.18932715 |
| Stamos | 2.04886872 | -1.1689577 | 3.15053285 | 0.09119353 | 0.18932715 |
| Pias3  | 0.4339527 | 2.71943935 | 3.15031334 | 0.09120402 | 0.18932715 |
| Tyr    | 0.62809251 | 2.55561045 | 3.14993114 | 0.09122229 | 0.18932715 |
| Ptpn1  | -0.2559175 | 4.77236984 | 3.14955635 | 0.0912402 | 0.18932715 |
| Chtop  | -0.2404462 | 7.48466396 | 3.14937457 | 0.0912489 | 0.18932715 |
| Scrib  | 0.55477123 | 2.10448195 | 3.14665265 | 0.09137915 | 0.18948849 |
| Camk2n2 | -0.2960091 | 4.57960333 | 3.14657054 | 0.09138309 | 0.18948849 |
| Suds3  | -0.3396092 | 5.04632402 | 3.14639531 | 0.09139148 | 0.18948849 |
| Rpl11  | -0.3517127 | 7.046423 | 3.14613324 | 0.09140403 | 0.18948849 |
| Astn2  | 0.41972922 | 3.40841357 | 3.14566534 | 0.09142646 | 0.18949486 |
| Nrd1   | 0.21773183 | 7.74028781 | 3.14429643 | 0.09149209 | 0.18959077 |
| Ankrd35 | -0.4385757 | 2.76425955 | 3.1436577 | 0.09152273 | 0.18960224 |
| Gpr56  | 0.47358048 | 2.97073981 | 3.14294473 | 0.09155695 | 0.18960224 |
| Gene      | Pik3cg     | Lsm1       | Etoh1      | Ubr2       | Gja1       | Prkab1     | 2410006H16 | Dram2      | Atp5e      | Gpr25      | Mir665     | Rab11b     | Rimklb     | Larp6      | Cwh43      | Hspb8      | Car10      | Adamts15   | Fgfr1op    | Lime1      | F830016B08 | Pced1a     | Klk10      | Rpe        | Rhoa       | Abcc8      | Tex9       | Il27ra     | Ralb       | Ppp1r10    | Zbtb7c     | Fam221a    | Pkig       | Ifitm3     | Drg1       | Eif4g2     | Kcne2      | Eva1a      | Ankrd34a   | Cd83       | Mpnd       | Pou3f3os   | Uaca       |
|-----------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Gene   | Value1  | Value2   | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 |
|--------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Asun   | 0.26980517 | 4.53145219 | 3.10971029 | 0.0931687 | 0.1912044 |
| Dnmt3aos | -2.5299706 | -1.8159098 | 3.10928883 | 0.09318935 | 0.19120672 |
| Ocrl   | 0.29427636 | 6.61188684 | 3.10812476 | 0.09324642 | 0.1912829 |
| Ccd174 | -0.2914433 | 4.70050512 | 3.10773499 | 0.09326554 | 0.1912829 |
| Acv1   | 0.3366258 | 4.31727452 | 3.10683472 | 0.09330971 | 0.19133343 |
| Cnn3   | -0.3432406 | 6.27032767 | 3.10376443 | 0.09346054 | 0.19160261 |
| Oas1a  | -1.1830357 | 0.68271435 | 3.10297018 | 0.09349961 | 0.19164259 |
| Aff4   | 0.19667458 | 8.98795918 | 3.10121702 | 0.0935859 | 0.19177933 |
| Chr2   | 0.68182165 | 1.96358718 | 3.09882207 | 0.09370394 | 0.19196416 |
| B630005N14 | -0.2055949 | 6.47885509 | 3.09859197 | 0.09371529 | 0.19196416 |
| SLC24a1 | 1.59036463 | -0.0401307 | 3.09740302 | 0.09377396 | 0.19200732 |
| Npy    | 0.4446983 | 3.41690542 | 3.09736088 | 0.09377604 | 0.19200732 |
| Ip11   | 0.27151123 | 6.18942871 | 3.09660082 | 0.09381357 | 0.19200732 |
| Ptc2   | -2.1471372 | -1.929152 | 3.09643706 | 0.09382166 | 0.19200732 |
| Sash1  | 0.22131507 | 6.31869525 | 3.09617983 | 0.09383437 | 0.19200732 |
| Pde6d  | -0.4168935 | 4.93270465 | 3.09532547 | 0.09387659 | 0.19205359 |
| Khl36  | -1.1528317 | 0.6160963 | 3.09280252 | 0.09400139 | 0.19226875 |
| Mgat5b | 0.32518849 | 3.71645702 | 3.09206608 | 0.09403786 | 0.1922876 |
| Ppp112a | 0.22035385 | 7.45763336 | 3.09148724 | 0.09406653 | 0.1922876 |
| Ank2   | 0.31602002 | 10.1838387 | 3.09009121 | 0.09413573 | 0.1922876 |
| Rnf215 | 0.51128689 | 2.67262694 | 3.08991782 | 0.09414433 | 0.1922876 |
| Dhx32  | 0.38053792 | 4.10411335 | 3.089819 | 0.09414923 | 0.1922876 |
| Clq2b  | -0.6926792 | 2.39464549 | 3.08973501 | 0.09415339 | 0.1922876 |
| St7    | 0.44978516 | 3.42973863 | 3.08970214 | 0.09415502 | 0.1922876 |
| Ttc39a | 0.96706286 | 1.32521746 | 3.08856761 | 0.09421132 | 0.1922876 |
| Tango2 | -0.3404385 | 3.743236 | 3.08838478 | 0.09422039 | 0.1922876 |
| Tnfap1 | -0.3011325 | 6.03251067 | 3.08825132 | 0.09422702 | 0.1922876 |
| Efcb7  | -0.5965004 | 2.55634321 | 3.08816715 | 0.0942312 | 0.1922876 |
| Hspbp1 | -0.5048215 | 2.63907772 | 3.08786559 | 0.09426417 | 0.1922876 |
| Cnkr3  | 0.54268777 | 1.78761728 | 3.08562873 | 0.09435732 | 0.19245322 |
| Zcchc11 | 0.25158966 | 6.83603884 | 3.08526289 | 0.09437551 | 0.19245322 |
| Nadk   | -0.3043576 | 5.45393474 | 3.08504631 | 0.09438629 | 0.19245322 |
| Dcaf12I2 | -1.4562006 | -0.1083279 | 3.08250676 | 0.09451271 | 0.19265866 |
| Dlgap2 | 0.36607625 | 6.60868622 | 3.08223238 | 0.09452638 | 0.19265866 |
| Psma8  | -1.1739424 | 0.17721155 | 3.08181567 | 0.09454715 | 0.1926609 |
| Nktr   | 0.3171065 | 7.07356696 | 3.08000225 | 0.09463758 | 0.19280507 |
| Ap3b2  | 0.39313883 | 5.0760068 | 3.07952999 | 0.09466115 | 0.19281299 |
| Lrnf2  | 0.53995879 | 1.80541065 | 3.07882115 | 0.09469654 | 0.19284496 |
| Gm4922 | 1.60576343 | -1.3059537 | 3.07781355 | 0.09474687 | 0.19290391 |
| Tbec  | 0.31621717 | 4.40846817 | 3.07745331 | 0.09476487 | 0.19290391 |
| Pcm1   | 0.33172268 | 8.57560764 | 3.07681375 | 0.09479684 | 0.19290551 |
| Fam117b | -0.1783693 | 7.00148895 | 3.07664964 | 0.09480504 | 0.19290551 |
| Zfp12  | 0.3111119 | 4.74653812 | 3.07611317 | 0.09483187 | 0.1929147 |
| Gene      | Expression | Expression | Expression | Expression | Expression |
|-----------|------------|------------|------------|------------|------------|
| Cuta      | -0.3496974 | 6.28943736 | 3.0754676  | 0.0948617  | 0.1929147  |
| Lrp6      | 0.22314434 | 6.82316275 | 3.07445177 | 0.09491502 | 0.1929147  |
| Grsf1     | -0.2056933 | 6.82277294 | 3.0740308  | 0.0949361  | 0.1929147  |
| 2700099C18I | 0.7463726 | 1.75363503 | 3.07381915 | 0.0949467  | 0.1929147  |
| Mfap3l    | 0.3552228 | 5.63323855 | 3.07377952 | 0.09494868 | 0.1929147  |
| Tm2d2     | -0.578263 | 4.24607519 | 3.07300128 | 0.09498767 | 0.1929147  |
|           | -0.6950056| 1.34585352 | 3.07294938 | 0.09499027 | 0.1929147  |
| Wrn       | -0.2270061 | 5.66555382 | 3.07286708 | 0.0949944  | 0.1929147  |
| Mir6390   | -2.0560258 | 0.08973674 | 3.0723555  | 0.09502004 | 0.1929147  |
| Itfg2     | 0.37504594 | 3.37979046 | 3.07185526 | 0.09504513 | 0.1929147  |
| Tomm5     | -0.3563381 | 4.59282901 | 3.07183989 | 0.0950459  | 0.1929147  |
| Plxna1    | 0.37377873 | 5.51998092 | 3.07054653 | 0.09511078 | 0.19297545 |
| Paccrl    | -0.4994935 | 3.30867818 | 3.07045802 | 0.09511523 | 0.19297545 |
| Ndst3     | 0.42143868 | 4.32585703 | 3.06932688 | 0.09517202 | 0.19302466 |
| 4933406F09I | 2.98352804 | -1.1412617 | 3.06917644 | 0.09517958 | 0.19302466 |
| Suco      | 0.25719197 | 6.12057899 | 3.06879782 | 0.0951986  | 0.19302466 |
| Ssbp3     | -0.2130498 | 5.98619152 | 3.067772   | 0.09525277 | 0.19309453 |
| Lrp10     | -0.5180548 | 4.25497654 | 3.06450651 | 0.0954145  | 0.19338236 |
| Hipk2     | 0.20395436 | 7.03675887 | 3.06340674 | 0.09546992 | 0.19345466 |
| Fam19a5   | -0.2451066 | 4.98488575 | 3.06070111 | 0.09560643 | 0.19369121 |
| 3110021N24 | 0.44414181 | 2.41221087 | 3.06005037 | 0.0956393  | 0.19371773 |
| Uprt      | -0.2802367 | 4.57891651 | 3.05924717 | 0.09567989 | 0.19374381 |
| Rgs12     | 0.45300619 | 3.26343381 | 3.05878414 | 0.09570329 | 0.19374381 |
| Ubl5      | -0.3856939 | 5.95117824 | 3.05862157 | 0.09571151 | 0.19374381 |
| Rnf219    | -0.2294291 | 5.20945198 | 3.05794272 | 0.09574584 | 0.19377326 |
| Msno1     | 0.36768802 | 4.99067555 | 3.05535498 | 0.09587684 | 0.1939819 |
| Zxdb      | 0.24972956 | 5.19819493 | 3.05512408 | 0.09588854 | 0.1939819  |
| 0610009O20 | -0.3174934 | 4.90817008 | 3.05466282 | 0.09591192 | 0.1939812 |
| Ydjc      | 0.64228973 | 1.79528566 | 3.05041728 | 0.09594464 | 0.19401525 |
| Bnip3     | -0.2424252 | 6.08881487 | 3.05284845 | 0.09600393 | 0.19405347 |
| Srsf3     | -0.2494021 | 7.78346233 | 3.05265876 | 0.09601356 | 0.19405347 |
| Grap      | -0.8787205 | 0.96999009 | 3.0521603  | 0.09603886 | 0.19405347 |
| Tex26     | -1.3515017 | -0.7564321 | 3.05208289 | 0.09604279 | 0.19405347 |
| Idh3a     | -0.2203681 | 6.62865407 | 3.05057776 | 0.09611923 | 0.19416788 |
| B4galnt4  | 0.50380075 | 3.61833574 | 3.0489573  | 0.09620162 | 0.19426824 |
| Zbtb43    | 0.36569625 | 4.51846627 | 3.04882041 | 0.09620858 | 0.19426824 |
| Mpl       | -0.9851683 | 1.52011049 | 3.04837658 | 0.09623116 | 0.19427379 |
| Spre3d    | 0.36411655 | 5.07279754 | 3.04721348 | 0.09629036 | 0.19432451 |
| Ephb2     | 0.69007977 | 2.12447497 | 3.04710351 | 0.09629596 | 0.19432451 |
| Pctp      | -0.5676007 | 2.59913689 | 3.04642551 | 0.0963305  | 0.19435416 |
| Rgs10     | -0.3243881 | 4.32710585 | 3.04537976 | 0.09638379 | 0.19440993 |
| Ttc1      | -0.2962664 | 6.00652084 | 3.04510429 | 0.09639783 | 0.19440993 |
| Prss54    | -2.1914157 | -1.2922153 | 3.04369252 | 0.09646985 | 0.19451511 |
| Gene   | Value 1  | Value 2  | Value 3  |
|--------|---------|---------|---------|
| Ube3c  | 0.2404247 | 6.07983139 | 3.04271222 |
| Nipbl  | 0.23956848 | 7.96640291 | 3.04256137 |
| Robo3  | 1.29867615 | 2.01714321 | 3.04177509 |
| Fam159b| 2.3749732 | -2.0502647 | 3.03922821 |
| Plcb2  | 0.72011369 | 1.39988177 | 3.03920658 |
| Bicc1  | -0.3843118 | 6.88745803 | 3.03872169 |
| Znrf3  | 0.22242033 | 5.9800087 | 3.03773402 |
| Slitrk3 | 0.34860611 | 6.08726695 | 3.03630633 |
| Vti1a  | -0.2410379 | 6.91696689 | 3.0361386 |
| Glra1  | 1.0377852 | 0.24685112 | 3.03600543 |
| Junb   | -0.9938837 | 1.53956335 | 3.03576213 |
| Scaf1  | -0.3016533 | 4.68206565 | 3.03467036 |
| Dpysl4 | 0.49565213 | 2.8588484 | 3.03191975 |
| Edem2  | -0.6439891 | 1.59219095 | 3.03147369 |
| Pars2  | -0.6737239 | 1.84573629 | 3.03059747 |
| Gm3414 | 0.45042823 | 3.33853117 | 3.03017224 |
| Adipor1| -0.2983685 | 6.28407623 | 3.03010741 |
| Ibtk   | 0.2051287 | 5.74726595 | 3.02997697 |
| Setd1b | 0.26395138 | 5.46467722 | 3.02908551 |
| Sv2c   | 0.40823344 | 4.80415195 | 3.02845059 |
| Atp13a1| 0.42257978 | 2.84849454 | 3.02813796 |
| Cst1   | 1.61006945 | 0.25753104 | 3.02805404 |
| Tmem87a| 0.30641374 | 4.44738721 | 3.02791714 |
| Taf12  | -0.4670666 | 4.10431954 | 3.02793561 |
| Gfra2  | -0.2977493 | 7.57978057 | 3.02720286 |
| Asgr1  | -0.5916396 | 6.16241364 | 3.02644757 |
| Trip11 | 0.19770857 | 7.25368334 | 3.02498859 |
| Add2   | 0.31018019 | 7.61685825 | 3.02453374 |
| Aimp2  | -0.3952686 | 3.29249552 | 3.0230683 |
| Vmn2r1 | -1.9760488 | -1.1488416 | 3.02305123 |
| 2210018M11 | 0.27964409 | 6.75589325 | 3.02198332 |
| Ern1   | 0.67342182 | 2.21275338 | 3.02183325 |
| Il2rb  | -1.1430594 | 0.95630689 | 3.02035534 |
| Gsto1  | -0.4173128 | 4.19893539 | 3.02034301 |
| Faf2   | 0.29964342 | 4.40507578 | 3.01889663 |
| Mcm10  | 2.54060003 | -1.3005088 | 3.01848604 |
| Slc43a1| 0.94075065 | 0.58700747 | 3.0179867 |
| Cnbd2  | 0.51699771 | 2.38608532 | 3.01754016 |
| Acr    | 1.49764277 | -0.0750512 | 3.01752212 |
| Phip   | 0.28793441 | 7.35489708 | 3.01731411 |
| Mgnl1  | -0.2098183 | 6.53938613 | 3.01697315 |
| Spc24  | 0.60340123 | 2.43892939 | 3.01533723 |
| 4930428E071 | 1.46975254 | -0.2484161 | 3.0145052 |

**Values:**
- Value 1: 0.09797288
- Value 2: 0.19576087
- Value 3: 0.1948913
| Gene      | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|-----------|----------|----------|----------|----------|----------|----------|
| Sumo3     | -0.348687 | 6.45768741 | 3.01446937 | 0.09797474 | 0.19576087 |
| 493040H11 | 2.52922462 | -1.2410107 | 3.01423327 | 0.09798701 | 0.19576087 |
| Pthrhd1   | -0.3503302 | 3.71099187 | 3.01305515 | 0.09804826 | 0.1958433 |
| Nabr1     | -0.3393817  | 3.64286868 | 3.01260562 | 0.09807165 | 0.19585007 |
| Fam174a   | -0.313083  | 5.07082992 | 3.01221526 | 0.09809196 | 0.1958507 |
| Smco4     | -0.6301004 | 1.93044032 | 3.01165334 | 0.0981212 | 0.19586917 |
| Pih1d1    | -0.5435048 | 3.36208289 | 3.01016656 | 0.09819864 | 0.1959838 |
| Gm6251    | -0.8289422 | 0.42859106 | 3.00898007 | 0.09826048 | 0.19606728 |
| Chlnb3    | 0.83881523 | 1.28994325 | 3.00542359 | 0.09846413 | 0.19609765 |
| Ak7       | -0.6872908 | 1.73166403 | 3.00533092 | 0.09845098 | 0.19609765 |
| 1700020L24f | 1.83087462 | -1.6620476 | 3.00504902 | 0.09846571 | 0.19609765 |
| Nop9      | -0.4208353 | 3.74602846 | 3.00504285 | 0.09846603 | 0.19609765 |
| Sec24a    | 0.24833457 | 5.49204325 | 3.00501489 | 0.09846749 | 0.19609765 |
| Tfnaip6   | 0.58242272 | 1.74255489 | 3.00487876 | 0.09847461 | 0.19609765 |
| Col17a1   | 2.69477224 | -1.226709 | 3.00426742 | 0.09850658 | 0.19609765 |
| Mtlch1    | -0.2326654 | 6.41998609 | 3.00409906 | 0.09851538 | 0.19609765 |
| Tbc1d24   | 0.31085025 | 6.35733208 | 3.00320967 | 0.09855144 | 0.19609765 |
| Ira4k     | -0.4703183 | 3.52899172 | 3.00338214 | 0.09855288 | 0.19609765 |
| C1rtnf7   | -0.6667092 | 4.36202515 | 3.00336098 | 0.09855399 | 0.19609765 |
| 4921515E04l | 1.61148169 | -0.8939193 | 3.00321824 | 0.09856146 | 0.19609765 |
| At597479  | -0.271028 | 5.87756521 | 3.00317147 | 0.09856391 | 0.19609765 |
| Bcas3os1  | 1.42735066 | 0.45882069 | 3.00316735 | 0.09856412 | 0.19609765 |
| 1700017B05 | -0.4438062 | 2.86725022 | 3.00294061 | 0.09857599 | 0.19609765 |
| Rab20     | -2.5610983 | -2.0306466 | 3.00246791 | 0.09860074 | 0.19610705 |
| A230077H06 | 0.75602174 | 2.28415411 | 3.00204361 | 0.09862295 | 0.19611141 |
| Rabgta    | 0.43509305 | 3.21503695 | 3.00075856 | 0.09869028 | 0.19620546 |
| Pkm       | -0.2582817 | 8.20468187 | 2.99930338 | 0.09876658 | 0.19631731 |
| Kdm5b     | 0.32171679 | 5.90629015 | 2.99821103 | 0.0988239 | 0.19639139 |
| 2210013O21 | -0.3427056 | 5.29079884 | 2.99658035 | 0.09890955 | 0.19651391 |
| Pcdh12    | 0.55330751 | 2.49227365 | 2.99593879 | 0.09894326 | 0.19651391 |
| Faah      | 0.36845603 | 4.14335949 | 2.99589177 | 0.09894574 | 0.19651391 |
| Mal2      | -0.2091846 | 6.39667895 | 2.9949329 | 0.09899616 | 0.19657419 |
| Prpf4     | 0.25412676 | 5.00342337 | 2.9944216 | 0.09902306 | 0.19658617 |
| Il1rapl   | 0.35196722 | 3.91836958 | 2.99405542 | 0.09904233 | 0.19658617 |
| Rassf2    | -0.3616344 | 7.49587503 | 2.99282571 | 0.09910707 | 0.19665234 |
| Galnt12   | 0.8541765 | 0.82133625 | 2.9922579 | 0.09913699 | 0.19665234 |
| Chd1      | 0.18923076 | 6.5805177 | 2.99200699 | 0.09915021 | 0.19665234 |
| Rps4x     | -0.3475783 | 7.89493547 | 2.99189763 | 0.09915597 | 0.19665234 |
| Drd3      | 1.47966161 | -1.0424144 | 2.99120603 | 0.09919243 | 0.19665723 |
| Acs3m3    | 1.7557974 | -0.887876 | 2.99108917 | 0.09919859 | 0.19665723 |
| Exph5     | 0.44405289 | 6.36395724 | 2.98992262 | 0.09926012 | 0.19673939 |
| Inhbb     | -0.8152947 | 1.70768754 | 2.98852843 | 0.09933372 | 0.19682478 |
| Tmsb15b1  | 0.73441379 | 1.17472549 | 2.98834538 | 0.09934339 | 0.19682478 |
| Gene | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 | Value17 | Value18 | Value19 | Value20 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Prkd3 | -0.2763693 | 5.66350149 | 2.98730118 | 0.09939856 | 0.19689426 |
| Smarca5 | 0.2142583 | 7.57245339 | 2.98574307 | 0.09948095 | 0.19701762 |
| Ehd4 | 0.31868912 | 4.01675613 | 2.98535338 | 0.09950156 | 0.19701862 |
| Ces2g | 0.52834106 | 3.49425668 | 2.98402333 | 0.09957198 | 0.19711819 |
| 2310035C23i | 0.30559585 | 6.63927903 | 2.98233602 | 0.09661388 | 0.1972454 |
| C630031E19i | 0.81147633 | 1.84095033 | 2.98205078 | 0.09967651 | 0.1972454 |
| Rpl30 | -0.10372249 | 0.13246401 | 2.98092779 | 0.09973608 | 0.19729904 |
| Idh1 | -0.27837278 | 5.41998055 | 2.98046444 | 0.09976067 | 0.19729904 |
| Tet2 | 0.37608118 | 6.67525259 | 2.9802465 | 0.09977223 | 0.19729904 |
| Cxcl5 | 1.02695352 | 0.65863524 | 2.98002143 | 0.09978418 | 0.19729904 |
| Ano5 | 1.14600143 | 0.82467018 | 2.97904183 | 0.09983621 | 0.19736207 |
| Rbx1 | -0.3034997 | 6.58727791 | 2.97807793 | 0.09988748 | 0.19742061 |
| Lmo4 | -0.29338866 | 9.51337193 | 2.97772626 | 0.09990613 | 0.19742061 |
| Gdpd1 | 0.27005729 | 5.43781772 | 2.9747787 | 0.10006299 | 0.1976158 |
| Bop1 | -0.4647106 | 2.95513326 | 2.97448351 | 0.10007872 | 0.1976158 |
| Xkr4 | 0.43375076 | 4.24244498 | 2.97411795 | 0.1000982 | 0.1976158 |
| Dpdc | -0.5149994 | 3.13768392 | 2.97382996 | 0.10011354 | 0.1976158 |
| Cdc14a | -0.45634147 | 4.04350205 | 2.97349592 | 0.10013135 | 0.1976158 |
| Usmg5 | -0.2956179 | 5.86410141 | 2.97345005 | 0.1001338 | 0.1976158 |
| Zfp62 | 0.2710739 | 6.19282385 | 2.97321877 | 0.10014613 | 0.1976158 |
| Snrpd1 | -0.2749098 | 5.26247952 | 2.97236504 | 0.10019166 | 0.19763167 |
| Kank1 | 0.36950509 | 3.58697731 | 2.97231139 | 0.10019452 | 0.19763167 |
| Spry4 | 0.42014045 | 3.46186275 | 2.97120553 | 0.10025354 | 0.1976921 |
| Cited2 | -0.2591344 | 6.39891047 | 2.97034941 | 0.10029926 | 0.1976921 |
| Rab35 | -0.2595679 | 4.52165069 | 2.97034173 | 0.10029967 | 0.1976921 |
| Batf | 1.27885483 | 0.02424304 | 2.97022525 | 0.10030589 | 0.1976921 |
| Spon2 | 2.22372598 | -0.6560705 | 2.96939432 | 0.10035029 | 0.19773982 |
| Rpl31 | -0.351226 | 8.64150413 | 2.96837765 | 0.10040464 | 0.19780713 |
| Brk1 | -0.2984412 | 6.30129478 | 2.96669155 | 0.10049486 | 0.19794242 |
| Xylt2 | -0.7074001 | 2.16298136 | 2.96622219 | 0.10052 | 0.19794242 |
| Plekhm3 | 0.29218527 | 6.33117024 | 2.96596193 | 0.10053394 | 0.19794242 |
| Gm5523 | -0.2644343 | 5.24483222 | 2.96410369 | 0.10063352 | 0.1980751 |
| Pcca | -0.2629576 | 5.77101254 | 2.96395002 | 0.10064176 | 0.1980751 |
| Atp6v1h | -0.1820051 | 6.29465663 | 2.96311431 | 0.10068659 | 0.19810656 |
| Wdr25 | -0.4827048 | 1.99011313 | 2.96289801 | 0.1006982 | 0.19810656 |
| Tnfrsf25 | 2.58307015 | -1.3089208 | 2.96156304 | 0.10076987 | 0.19820775 |
| Hspa14 | 0.2783373 | 4.2484401 | 2.96034241 | 0.10083546 | 0.19826355 |
| Nufip1 | -0.3759647 | 4.1197829 | 2.9602817 | 0.10083872 | 0.19826355 |
| Enox1 | -0.3630233 | 3.98225846 | 2.95906489 | 0.10090415 | 0.19833856 |
| Ctnnd1 | 0.20217389 | 8.01841914 | 2.95881921 | 0.10091737 | 0.19833856 |
| Fam171b | 0.26694618 | 7.11323488 | 2.95780574 | 0.10097191 | 0.19840595 |
| Zfp866 | 0.23957999 | 5.11100105 | 2.95706934 | 0.10101157 | 0.19844406 |
| Sdpr | -0.3940526 | 7.13197726 | 2.95647337 | 0.10104367 | 0.19845051 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Igsf1  | 1.44800896 | 0.70347853 | 2.95625627 | 0.10105537 | 0.19845051 |
| Ap4s1  | -0.225038 | 5.86757563 | 2.9554145  | 0.1010939  | 0.1984638 |
| Sugct  | -0.6937045 | 1.49156978 | 2.9562837  | 0.10114314 | 0.19851293 |
| Ylpm1  | 0.43630426 | 8.12727124 | 2.95453918 | 0.10114795 | 0.19851293 |
| Ddx51  | -0.281223  | 3.89237777 | 2.95265375 | 0.1012507  | 0.19867477 |
| Myo1f  | -0.6846125 | 1.27857512 | 2.95166832 | 0.10130296 | 0.19869946 |
| Ddx51  | 0.27936214 | 6.36026473 | 2.94921383 | 0.10143571 | 0.19887845 |
| Dirc2  | -0.292797  | 4.94217804 | 2.94768443 | 0.10151853 | 0.19895667 |
| Myh13  | 2.3649815  | -1.4079411 | 2.94737801 | 0.10153514 | 0.19895667 |
| Ssu72  | -0.2943756 | 5.2620379  | 2.94735205 | 0.10153654 | 0.19895667 |
| Dip2c  | 0.27936214 | 6.36026473 | 2.94921383 | 0.10143571 | 0.19887845 |
| Auts2  | -0.292797  | 4.94217804 | 2.94768443 | 0.10151853 | 0.19895667 |
| Ylpm1  | 0.43630426 | 8.12727124 | 2.95453918 | 0.10114795 | 0.19851293 |
| Myo1f  | -0.6846125 | 1.27857512 | 2.95166832 | 0.10130296 | 0.19869946 |
| Auts2  | 0.27936214 | 6.36026473 | 2.94921383 | 0.10143571 | 0.19887845 |
| Ylpm1  | 0.43630426 | 8.12727124 | 2.95453918 | 0.10114795 | 0.19851293 |
| Myo1f  | -0.6846125 | 1.27857512 | 2.95166832 | 0.10130296 | 0.19869946 |
| Myo1f  | -0.6846125 | 1.27857512 | 2.95166832 | 0.10130296 | 0.19869946 |
| Myh13  | 2.3649815  | -1.4079411 | 2.94737801 | 0.10153514 | 0.19895667 |
| Ssu72  | -0.2943756 | 5.2620379  | 2.94735205 | 0.10153654 | 0.19895667 |
| Dip2c  | 0.27936214 | 6.36026473 | 2.94921383 | 0.10143571 | 0.19887845 |
| Auts2  | -0.292797  | 4.94217804 | 2.94768443 | 0.10151853 | 0.19895667 |
| Myo1f  | -0.6846125 | 1.27857512 | 2.95166832 | 0.10130296 | 0.19869946 |
| Auts2  | 0.27936214 | 6.36026473 | 2.94921383 | 0.10143571 | 0.19887845 |
| Ylpm1  | 0.43630426 | 8.12727124 | 2.95453918 | 0.10114795 | 0.19851293 |
| Myo1f  | -0.6846125 | 1.27857512 | 2.95166832 | 0.10130296 | 0.19869946 |
| Gene   | Value   | Value   | Value   | Value   | Value   |
|--------|---------|---------|---------|---------|---------|
| Zgpat  | 0.65475104 | 1.82987523 | 2.92851649 | 0.10256329 | 0.19969028 |
| Fibp   | -0.3269543 | 4.96051385 | 2.92541787 | 0.10273337 | 0.19989702 |
| Haus6  | 0.3400165 | 3.95219475 | 2.92534391 | 0.10273743 | 0.19989702 |
| S100b  | -0.3617414 | 6.07697975 | 2.92528686 | 0.10274057 | 0.19989702 |
| Nras   | -0.2211391 | 7.27390837 | 2.92493493 | 0.10275991 | 0.19989702 |
| Dnnd6b | 0.66906665 | 2.8834596 | 2.9247237 | 0.10277152 | 0.19989702 |
| Eef1e1 | -0.3294906 | 3.33863197 | 2.92290743 | 0.10287141 | 0.20005159 |
| Fam53b | -0.3398544 | 4.28924641 | 2.92177511 | 0.10293374 | 0.20013307 |
| Pcsk7  | 0.43129573 | 2.68672644 | 2.91911331 | 0.10308044 | 0.20037518 |
| Pcyox1l| 0.62309396 | 1.9727679 | 2.91877364 | 0.10309918 | 0.20037518 |
| Setd2  | 0.24989674 | 7.47981448 | 2.91800691 | 0.10314149 | 0.20041765 |
| Anxa2  | -0.5526099 | 6.18191341 | 2.91719006 | 0.10318659 | 0.20045849 |
| Ninj2  | 1.54673474 | -0.9280136 | 2.91680418 | 0.1032079 | 0.20045849 |
| C5ar1  | 1.80347255 | -0.0568141 | 2.91651459 | 0.1032329 | 0.20045849 |
| Pam    | 0.24772505 | 6.3274475 | 2.9147589 | 0.10332096 | 0.20053591 |
| D3Bwg0562| 0.28153173 | 7.1409987 | 2.91449345 | 0.10333564 | 0.20053591 |
| Mier3  | -0.2573861 | 5.08618564 | 2.91441318 | 0.10334008 | 0.20053591 |
| Il34   | -0.3319894 | 3.78935797 | 2.91422003 | 0.10335077 | 0.20053591 |
| Lgfsf10| 0.41258204 | 2.37417852 | 2.9139424 | 0.10336613 | 0.20053591 |
| Syt13  | -0.2551768 | 6.10051852 | 2.91336624 | 0.10339802 | 0.20055806 |
| Slc2a12| 0.39491132 | 4.38770554 | 2.91274849 | 0.10343222 | 0.20057337 |
| Iqub   | 0.70997598 | 1.53412581 | 2.91248415 | 0.10344686 | 0.20057337 |
| Adcyap1r1| 0.31015446 | 6.44811207 | 2.91199361 | 0.10347703 | 0.20059215 |
| Dusp8  | 0.31316354 | 5.57658294 | 2.91154324 | 0.103499 | 0.20059503 |
| Hist1h2bl| -0.5213128 | 3.11037497 | 2.91069226 | 0.10354617 | 0.20061055 |
| Zic1   | -0.3994195 | 8.07189603 | 2.91053034 | 0.10355515 | 0.20061055 |
| Cdk14  | -0.2317211 | 6.91946638 | 2.91029068 | 0.10356844 | 0.20061055 |
| Rtn4   | 0.22376116 | 9.9353984 | 2.909789 | 0.10359628 | 0.20062479 |
| Rpl29  | -0.3344666 | 6.10243951 | 2.90848911 | 0.10366843 | 0.20062277 |
| Gpx3   | 0.47883185 | 3.06524729 | 2.9074129 | 0.10372821 | 0.20066227 |
| Cbx3   | -0.255778 | 8.36237764 | 2.90679961 | 0.1037623 | 0.20066227 |
| Sec31a | 0.1769622 | 7.0742304 | 2.90668793 | 0.1037685 | 0.20066227 |
| Cast   | -0.3702492 | 6.45665256 | 2.9064146 | 0.1037837 | 0.20066227 |
| Arhgap26| 0.2820843 | 7.57515888 | 2.90640536 | 0.10378422 | 0.20066227 |
| Slc30a5| 0.29521386 | 3.9836903 | 2.9062971 | 0.10379024 | 0.20066227 |
| Alkbh3 | -0.4569184 | 3.75199751 | 2.9059714 | 0.10380835 | 0.20066227 |
| Sema4f | 0.38591958 | 4.77742819 | 2.90583994 | 0.10381566 | 0.20066227 |
| Fam175a| 0.43201267 | 2.6092575 | 2.90573517 | 0.10382049 | 0.20066227 |
| Asb8   | -0.2081907 | 6.2702894 | 2.90412445 | 0.10391113 | 0.20078003 |
| Tbx22  | -2.0846367 | -1.4582454 | 2.90349264 | 0.10394632 | 0.20078003 |
| Kcnrg  | 1.11429524 | 1.30895024 | 2.90319963 | 0.10396264 | 0.20078003 |
| Prorsd1| -0.2965327 | 3.89631622 | 2.90318601 | 0.1039634 | 0.20078003 |
| Ssfa2  | 0.23374701 | 5.4928508 | 2.90119933 | 0.10407416 | 0.20095431 |
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|-------|--------|--------|--------|--------|--------|--------|
| Cul3  | -0.1802625 | 8.90574059 | 2.90012482 | 0.10413412 | 0.2010198 |
| Klhl41| 0.71221325 | 1.5136362 | 2.89979535 | 0.10415252 | 0.2010198 |
| Saal1 | -0.5171027 | 2.24950395 | 2.89939942 | 0.10417463 | 0.2010198 |
| Mammad4| -1.3555275 | -0.0726255 | 2.89912123 | 0.10419016 | 0.2010198 |
| Jarid2 | 0.2400793 | 5.84144929 | 2.89812981 | 0.10424556 | 0.20108707 |
| Psmc5 | -0.239279 | 6.68950131 | 2.89657043 | 0.10433276 | 0.20118227 |
| Pcdhb7 | -0.6612953 | 2.24062595 | 2.89629368 | 0.10434825 | 0.20118227 |
| Foxj2 | -0.237119 | 6.55270403 | 2.8961457 | 0.10435653 | 0.20118227 |
| Cxx1c | -0.2288913 | 5.91556429 | 2.89520111 | 0.10440941 | 0.20124461 |
| 1700049G17 | 0.3900621 | 3.46919692 | 2.89402848 | 0.1044751 | 0.2013316 |
| Ifi47 | -0.5636153 | 3.77676149 | 2.89193877 | 0.10459228 | 0.20141009 |
| Alg8  | 0.33336363 | 3.33045314 | 2.89151731 | 0.10461593 | 0.20141009 |
| Prlr  | 0.42322087 | 2.37048023 | 2.89131107 | 0.10462751 | 0.20141009 |
| Dhx9  | 0.31268483 | 7.76847638 | 2.8908166 | 0.10465527 | 0.20141009 |
| Glrx2 | -0.1964539 | 6.7348839 | 2.89031138 | 0.10468364 | 0.20141009 |
| 1700037C18Rik | -1.0591931 | 0.04865188 | 2.88994214 | 0.10470439 | 0.20141009 |
| Clec14a | 0.64904748 | 1.55869742 | 2.88918209 | 0.1047471 | 0.20141009 |
| Atp5g2 | -0.4445864 | 4.07447845 | 2.8888996 | 0.10476298 | 0.20141009 |
| Plk2  | 0.28386947 | 7.04814951 | 2.88878393 | 0.10476948 | 0.20141009 |
| S100a16 | -0.5880821 | 3.25723789 | 2.88834857 | 0.10479396 | 0.20141009 |
| Wdr53 | -0.4948134 | 3.18469403 | 2.88833394 | 0.10479478 | 0.20141009 |
| Nrip3 | -0.2627218 | 5.45211388 | 2.88821515 | 0.10480147 | 0.20141009 |
| S83045E08I | -1.198286 | 0.68021135 | 2.88797859 | 0.10481477 | 0.20141009 |
| Gna13 | -0.2174276 | 7.53995271 | 2.88767799 | 0.10483168 | 0.20141009 |
| Gm13547 | 2.40957191 | -2.4282955 | 2.88746869 | 0.10484346 | 0.20141009 |
| Stk11ip | -0.4720666 | 3.48361789 | 2.88744464 | 0.10484481 | 0.20141009 |
| Ddx59 | -0.5061746 | 2.5780165 | 2.88646633 | 0.10489988 | 0.20146657 |
| Mtap | -0.4035922 | 4.5968512 | 2.88619157 | 0.10491535 | 0.20146657 |
| Lrcc23 | -1.0669567 | 0.84062034 | 2.88576111 | 0.1049396 | 0.20147364 |
| Slfn8 | -0.5699047 | 3.41249401 | 2.88504926 | 0.10497971 | 0.20149536 |
| Zfp28 | 0.47678095 | 2.80136131 | 2.88483017 | 0.10499206 | 0.20149536 |
| Hn1 | -0.3552797 | 4.32365813 | 2.88444268 | 0.1050139 | 0.2014978 |
| Cts8 | 0.88539636 | 0.00836896 | 2.88368572 | 0.10505659 | 0.20151463 |
| Slc35e2 | 0.30480256 | 5.59113456 | 2.8835576 | 0.10506381 | 0.20151463 |
| Slc2a9 | 1.94661029 | -0.8794348 | 2.88307429 | 0.10509108 | 0.20152747 |
| E130317F20I | -0.8444295 | 1.16468983 | 2.8816965 | 0.10516886 | 0.20160457 |
| Aggf1 | -0.2327294 | 6.57041674 | 2.88130863 | 0.10519077 | 0.20160457 |
| Rev3l | 0.29531734 | 7.29469695 | 2.88126854 | 0.10519303 | 0.20160457 |
| Cpe | 0.23648327 | 10.0402984 | 2.88036134 | 0.1052443 | 0.20166336 |
| Adcy2 | 0.26152614 | 5.76768634 | 2.87966158 | 0.10528386 | 0.20168502 |
| Fut11 | 0.36800357 | 3.90062084 | 2.87917532 | 0.10531136 | 0.20168502 |
| Traf1 | -1.1850331 | 0.98828572 | 2.87906914 | 0.10531737 | 0.20168502 |
| Kcnd3 | 0.3657695 | 5.96922766 | 2.8770614 | 0.10543102 | 0.20182721 |
| Gene   | Value   | Value   | Value   | Value    | Value  |
|--------|---------|---------|---------|----------|--------|
| Ctnna1 | -0.2890548 | 7.91023598 | 2.87702944 | 0.10543283 | 0.20182721 |
| Lrnn1  | 0.32582552 | 6.20171724 | 2.87660881 | 0.10545666 | 0.20183339 |
| B3gclt | 0.25336137 | 5.47446189 | 2.87498603 | 0.10554865 | 0.20196999 |
| Mag3   | 0.22428572 | 6.70809646 | 2.87401431 | 0.10560378 | 0.20198595 |
| III1ra | -0.542215  | 2.40872718 | 2.87391239 | 0.10560957 | 0.20198595 |
| Bche   | -0.4641024 | 7.2717699  | 2.87346863 | 0.10563476 | 0.20198595 |
| Pqlc1  | -0.3168933 | 3.33315234 | 2.87338548 | 0.10563948 | 0.20198595 |
| Lmod1  | -0.425419  | 5.0582383  | 2.87192243 | 0.10572258 | 0.20210539 |
| Gm266  | 0.86696262 | 0.6425385  | 2.87116534 | 0.10576561 | 0.20213438 |
| Ago3   | 0.2718005  | 6.0504347  | 2.8709296  | 0.10577902 | 0.20213438 |
| Ddt    | -0.4747708 | 3.74680858 | 2.87007832 | 0.10582744 | 0.20218419 |
| Slc16a13 | 0.47510963 | 2.78603537 | 2.86943539 | 0.10586402 | 0.20218419 |
| Vldlr  | 0.29206682 | 6.06539724 | 2.86938299 | 0.105867   | 0.20218419 |
| Rps10  | -0.4075439 | 4.92802873 | 2.86806134 | 0.10594226 | 0.20228188 |
| C030034L19f | 2.02977856 | -1.2749103 | 2.86775951 | 0.10595946 | 0.20228188 |
| Ushbp1 | -1.062045  | 0.5480966  | 2.86498415 | 0.10611773 | 0.20254456 |
| Dio3os | -2.3920707 | -1.726407  | 2.86426517 | 0.10615878 | 0.20258343 |
| Slc22a5 | 0.48101527 | 2.58385577 | 2.86299102 | 0.10623156 | 0.20268284 |
| Maoa   | 0.27154378 | 4.91687969 | 2.86234212 | 0.10626865 | 0.20271412 |
| Evc    | 0.49285293 | 2.46743737 | 2.86183717 | 0.10629753 | 0.20272972 |
| CK137956 | -1.0261258 | 0.78151713 | 2.86115077 | 0.10633679 | 0.20274792 |
| Psmd3  | -0.2815625 | 4.38659442 | 2.86094675 | 0.10634847 | 0.20274792 |
| Gm1837 | 1.22584506 | -0.748374  | 2.85969949 | 0.10640441 | 0.20281509 |
| Ttl    | -0.20678   | 5.9524659  | 2.85942786 | 0.10643543 | 0.20282427 |
| Arhgap32 | 0.34583305 | 9.3418549  | 2.85902841 | 0.10645831 | 0.20282427 |
| Spint1 | 1.28871942 | -0.3384106 | 2.85864254 | 0.10648042 | 0.20282427 |
| Nr1p   | 0.30478286 | 4.973746   | 2.85843968 | 0.10649205 | 0.20282427 |
| Atp5d  | -0.431786  | 6.11576955 | 2.85672754 | 0.10659023 | 0.20293446 |
| Pcdh12 | -3.5141329 | -1.9877816 | 2.85670829 | 0.10659133 | 0.20293446 |
| Ankr34c | -0.3396065 | 4.32065125 | 2.85624973 | 0.10661765 | 0.20294511 |
| Scly   | -0.4759845 | 3.52715264 | 2.85416217 | 0.10673754 | 0.2030894 |
| Map3k15 | 0.87293329 | 0.18468205 | 2.85304883 | 0.10680155 | 0.2030894 |
| Tomm20 | -0.177016  | 7.75160618 | 2.85295884 | 0.10680672 | 0.2030894 |
| Fancd2 | 0.6512755  | 1.26540415 | 2.85257371 | 0.10682888 | 0.2030894 |
| Gm19705 | -0.7224527 | 1.55104948 | 2.85221874 | 0.1068493 | 0.2030894 |
| D430019H16 | 0.30023349 | 6.30631517 | 2.85214389 | 0.10685361 | 0.2030894 |
| Kctd17 | -0.411278 | 4.42842515 | 2.85175201 | 0.10687616 | 0.2030894 |
| Slc4a3a | 1.29147238 | 0.2159002 | 2.85164624 | 0.10688225 | 0.2030894 |
| Adra2b | 1.08266158 | 0.18659244 | 2.85138456 | 0.10689731 | 0.2030894 |
| Ing4   | -0.3100299 | 3.88740656 | 2.85132426 | 0.10690078 | 0.2030894 |
| Pon3   | -0.5559371 | 3.32299925 | 2.84996501 | 0.10697908 | 0.20319873 |
| 6030443J06f | 0.66255522 | 1.76003475 | 2.84792802 | 0.10709653 | 0.20338239 |
| Apobec4 | 1.40069145 | -0.0917944 | 2.84682364 | 0.10716027 | 0.20342564 |
| Gene   | Perm1  | Perm2  | Perm3  | Perm4  | Perm5  | Perm6  |
|--------|--------|--------|--------|--------|--------|--------|
| Tmem47 | 0.29270951 | 7.50737928 | 2.84681382 | 0.10716084 | 0.20342564 |
| Spcs1  | -0.3133476 | 5.36136485 | 2.84582134 | 0.10721816 | 0.20346325 |
| Prpf8  | 0.25989979 | 8.26146319 | 2.84575148 | 0.1072222 | 0.20346325 |
| Snora28 | 2.59451824 | -1.4223794 | 2.84419038 | 0.10731244 | 0.20354148 |
| A730043L091 | 2.93681625 | -2.1676103 | 2.84337545 | 0.10735959 | 0.20354148 |
| Efh1d1 | -0.3266048 | 4.60422175 | 2.8427827 | 0.10739389 | 0.20354148 |
| Sptym1 | 0.48958845 | 9.21986903 | 2.84269455 | 0.10739899 | 0.20354148 |
| Zmyn1d19 | -0.7369927 | 1.55240992 | 2.8426757 | 0.10740009 | 0.20354148 |
| Rtp1   | 2.4940659 | -1.5165248 | 2.84262846 | 0.10740282 | 0.20354148 |
| Cw15   | -0.2882706 | 6.787145 | 2.84205641 | 0.10743594 | 0.20354148 |
| Nek5   | -2.5203333 | -1.245548 | 2.84201394 | 0.1074384 | 0.20354148 |
| Far1   | 0.24171389 | 6.28201656 | 2.84146773 | 0.10747004 | 0.20354148 |
| Cers6  | 0.34448003 | 5.97498481 | 2.84144743 | 0.10747122 | 0.20354148 |
| Gbf1   | 0.26670445 | 5.9862477 | 2.84106871 | 0.10749316 | 0.20354369 |
| Khdc2  | -0.1747968 | 7.86071972 | 2.84037941 | 0.10753312 | 0.20357999 |
| Rps26  | -0.3942789 | 5.54799771 | 2.83632306 | 0.10777382 | 0.20399626 |
| Csnk2b | -0.2666999 | 5.72714885 | 2.83575932 | 0.10780136 | 0.20400897 |
| 3830408C211 | -0.5252755 | 2.47583336 | 2.83532365 | 0.1078267 | 0.2040175 |
| Al429214 | 0.53245209 | 3.71192123 | 2.83491521 | 0.10785046 | 0.20402304 |
| Neddl4l | 0.34389423 | 8.72859637 | 2.83315694 | 0.10795281 | 0.20415501 |
| Tmem214 | 0.32276175 | 4.44956222 | 2.83300082 | 0.1079619 | 0.20415501 |
| Cxcr5  | 0.99961005 | -0.2027588 | 2.83147498 | 0.10805082 | 0.20428226 |
| Alox5ap | -0.6929644 | 1.4941033 | 2.83067534 | 0.10809851 | 0.20428226 |
| Gm15663 | -0.4595071 | 3.1623083 | 2.83008817 | 0.10813171 | 0.20428226 |
| Fxyd7  | -0.5401511 | 2.00153272 | 2.82968104 | 0.10815548 | 0.20428226 |
| Gm19461 | 1.63518835 | -0.8248495 | 2.82937301 | 0.10817346 | 0.20428226 |
| Esy2t  | 0.20473184 | 5.89773321 | 2.82935996 | 0.10817422 | 0.20428226 |
| Hsd17b14 | -0.8349276 | 0.86079391 | 2.82903631 | 0.10819312 | 0.20428226 |
| Actrt3 | -1.709867 | -0.9276285 | 2.8289863 | 0.10819604 | 0.20428226 |
| Bub1b  | 1.09427466 | 0.47634977 | 2.8285089 | 0.10822392 | 0.20429553 |
| Ppp2r1a | -0.1804651 | 7.25493951 | 2.82737859 | 0.10828997 | 0.20438083 |
| Rassf9  | -0.8689439 | 0.90130565 | 2.8262661 | 0.10835503 | 0.20440916 |
| Tomt   | -0.7916589 | 0.54964426 | 2.82606779 | 0.10836663 | 0.20440916 |
| Traf6  | -0.2337238 | 6.18016096 | 2.82605143 | 0.10836759 | 0.20440916 |
| Srpx   | -1.4034248 | 0.14940974 | 2.82562892 | 0.10839231 | 0.20441643 |
| Pggtb1 | -0.3028915 | 4.10302833 | 2.82456122 | 0.10845481 | 0.20446442 |
| Gm12505 | -0.4937238 | 1.77653996 | 2.82448114 | 0.1084595 | 0.20446442 |
| Alas1  | 0.24751584 | 4.46677621 | 2.82356195 | 0.10851335 | 0.20451152 |
| Clmn   | 0.23485217 | 5.98196232 | 2.82334193 | 0.10852625 | 0.20451152 |
| Spty2d1 | -0.2591919 | 4.96492595 | 2.82180421 | 0.10861641 | 0.20464207 |
| Strada | 0.41091187 | 3.65046623 | 2.82086432 | 0.10867157 | 0.20470661 |
| Zfc3h1 | 0.34676353 | 6.97548533 | 2.81963199 | 0.10874393 | 0.2047548 |
| BC025920 | -0.6764777 | 1.46221459 | 2.81956358 | 0.10874975 | 0.2047548 |
| Gene      | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   | Value 10  |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| C5ar2     | 0.554519  | 1.32805436| 2.81906737| 0.10877711| 0.2047548 |
| Micall1   | -0.2460914| 5.22167441 | 2.81900517| 0.10878076| 0.2047548 |
| Rab27a    | -0.3561379| 3.40232344 | 2.81815503| 0.10883074| 0.20480951|
| Lnx1      | 0.34472567 | 4.01709519 | 2.81722473| 0.10888546| 0.20487224|
| Cmpk1     | -0.2313534| 7.47820594 | 2.81687733| 0.1089059 | 0.20487224|
| Skiv2l    | 0.32380476 | 5.25710978 | 2.81563176| 0.10897923| 0.20497082|
| Fam206a   | -0.2804963| 5.91732222 | 2.81363501| 0.10909691| 0.20514396|
| Pcdh8     | 0.48074445 | 2.58289504 | 2.81335923| 0.10911317| 0.20514396|
| Ppp1cb    | -0.1925083 | 9.23777984 | 2.81285551| 0.10914289| 0.20516045|
| Akap12    | -0.286291 | 8.54412102 | 2.81114124| 0.10924408| 0.20531127|
| Yme1l1    | 0.22148391 | 6.23404001 | 2.81053544| 0.10927987| 0.20532038|
| Ano10     | 0.45548076 | 2.49026703 | 2.81014833| 0.10930275| 0.20532038|
| Siae      | 0.30961719 | 4.5606751 | 2.80999499 | 0.10931181| 0.20532038|
| Rtnla     | 1.0155624  | 1.0485688 | 2.80892582 | 0.10937503| 0.20536675|
| Slc39a12  | 0.71085654 | 2.63789016 | 2.80886828 | 0.10937843| 0.20536675|
| Clk4      | 0.29082045 | 5.76616854 | 2.80770327 | 0.10944737| 0.20543125|
| Gm17660   | 2.16355643 | -1.4513759 | 2.80757902 | 0.10945473| 0.20543125|
| Xrcc3     | 0.42376555 | 3.43280101 | 2.80642909 | 0.10952283| 0.20551968|
| Rnf144a   | 0.29712824 | 4.77117646 | 2.80550465 | 0.10957761| 0.2055831 |
| Dctd      | 0.7412403 | 1.64541764 | 2.80443905 | 0.1096408 | 0.20566226|
| Hs2st1    | 0.23253342 | 6.7575588 | 2.80384021 | 0.10967633| 0.20568951|
| Tmem132b  | 0.34367348 | 7.49325511 | 2.80340541 | 0.10970213| 0.20569852|
| 5430421F17 | 0.97456333 | 0.8712816 | 2.80233204 | 0.10976587| 0.20574923|
| H3f3a     | -0.4051781 | 8.18586111 | 2.80185282 | 0.10979434| 0.20574923|
| Edf1      | -0.4409734 | 6.41286507 | 2.80159039 | 0.10980993| 0.20574923|
| Ldb3      | -0.6236148 | 2.06945824 | 2.80153546 | 0.10981319| 0.20574923|
| Tspan1    | 2.18121747 | -1.3200596 | 2.79939427 | 0.10994053| 0.20594841|
| Armcx6    | 1.02149726 | 0.96305597 | 2.79793426 | 0.11002745| 0.20607184|
| Gfpt1     | 0.23688328 | 6.60992891 | 2.7972168 | 0.1100702 | 0.20611079|
| Bcs1l     | 0.39402652 | 2.77376128 | 2.79667843 | 0.11010229| 0.20611079|
| Slc7a10   | 0.99721475 | 0.19958365 | 2.79648228 | 0.11011398| 0.20611079|
| Zfp85os   | -0.4768923 | 2.59106711 | 2.7957844 | 0.1101556 | 0.20611079|
| Gorasp2   | -0.2338578 | 7.01602837 | 2.79562873 | 0.11016488| 0.20611079|
| Ccl2      | -1.3096192 | -0.4998618 | 2.79494301 | 0.1102058 | 0.20611079|
| Carf      | 0.27521412 | 4.65339293 | 2.79487247 | 0.11021001| 0.20611079|
| Tfap2d    | -1.5569776 | -0.1952972 | 2.7946414 | 0.1102238 | 0.20611079|
| Psmb6     | -0.3355145 | 4.90056129 | 2.79432704 | 0.11024257| 0.20611079|
| Pde3a     | 0.87073582 | 1.06521131 | 2.79405736 | 0.11025867| 0.20611079|
| Lrrtm3    | 0.26849863 | 4.97338521 | 2.79284518 | 0.11033108| 0.2061761 |
| Tor1b     | 0.36005233 | 3.76440609 | 2.79225274 | 0.11036649| 0.2061761 |
| Cxx1a     | -0.2390234 | 6.02202972 | 2.79216047 | 0.11037201| 0.2061761 |
| Gbp3      | -0.4090888 | 4.32332538 | 2.79206361 | 0.1103778 | 0.2061761 |
| Hnrnpul2  | -0.1753988 | 8.048024 | 2.79009673 | 0.11049547| 0.20635655 |
| Gene    | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|---------|---------|---------|---------|---------|---------|---------|
| Hist3h2a | -0.932356 | 0.54765609 | 2.78875773 | 0.11057566 | 0.20645683 |
| Rap2b   | -0.2329261 | 5.93718849 | 2.78849639 | 0.11059132 | 0.20645683 |
| Nsmce2  | -0.2530486 | 5.28630791 | 2.78681722 | 0.110692   | 0.20659557 |
| Smc6    | 0.18637488 | 7.65803915 | 2.78620431 | 0.11072878 | 0.20659557 |
| Set     | -0.2041266 | 8.09528691 | 2.78620211 | 0.11072891 | 0.20659557 |
| Chia1   | 1.51294378 | -0.1819364 | 2.78536738 | 0.11077902 | 0.2066497  |
| Srcin1  | 0.43459578 | 6.08474988 | 2.78464313 | 0.11082252 | 0.20667449 |
| Stat4   | -0.5171609 | 1.82879885 | 2.78438309 | 0.11083814 | 0.20667449 |
| Mylpf   | 1.41030087 | -0.1585606 | 2.78409237 | 0.11085561 | 0.20667449 |
| Rap2b   | -0.2329261 | 5.93718849 | 2.78849639 | 0.11059132 | 0.20645683 |
| Nsmce2  | -0.2530486 | 5.28630791 | 2.78681722 | 0.110692   | 0.20659557 |
| Smc6    | 0.18637488 | 7.65803915 | 2.78620431 | 0.11072878 | 0.20659557 |
| Set     | -0.2041266 | 8.09528691 | 2.78620211 | 0.11072891 | 0.20659557 |
| Chia1   | 1.51294378 | -0.1819364 | 2.78536738 | 0.11077902 | 0.2066497  |
| Srcin1  | 0.43459578 | 6.08474988 | 2.78464313 | 0.11082252 | 0.20667449 |
| Stat4   | -0.5171609 | 1.82879885 | 2.78438309 | 0.11083814 | 0.20667449 |
| Mylpf   | 1.41030087 | -0.1585606 | 2.78409237 | 0.11085561 | 0.20667449 |
Ccbe1 0.35755772 3.84561048 2.76475715 0.11202479 0.20739194
Ap4b1 -0.587078 2.03441604 2.76444391 0.11204385 0.20739194
Elof1 -0.5293992 3.1789434 2.7643856 0.11204744 0.20739194
4930594C11f 1.41761285 1.31140351 2.76425548 0.11205532 0.20739194
Rppa -0.4054166 2.92032853 2.76407734 0.11206616 0.20739194
C4bp-ps1 2.27570023 -1.5809795 2.76307931 0.11212693 0.20746521
Ntcp 0.4644597 2.61603098 2.76267877 0.11215133 0.20747117
Paip1 0.25128066 6.24463162 2.76140554 0.11222894 0.20757035
Pxd1 -0.4902024 3.64415578 2.7611039 0.11224733 0.20757035
4930469G21 1.04874062 -0.1709537 2.76014245 0.11230599 0.20758711
Rnasek -0.3787056 7.09958463 2.75995121 0.11231766 0.20758711
Fubp1 0.24670394 7.1259254 2.7596244 0.11233761 0.20758711
Rnf220 -0.2289997 6.94879055 2.75956616 0.11234116 0.20758711
Pomgnt1 0.41025358 2.95261862 2.75907675 0.11237104 0.20760316
Frem3 1.23101182 0.105963 2.75782302 0.11244764 0.20770549
Clcn1 1.07499289 0.05914403 2.75508104 0.11261536 0.20792242
Ptprj 0.29248605 6.83767348 2.75491832 0.11262533 0.20792242
Gcnt4 0.39105629 4.22489231 2.7548623 0.11262876 0.20792242
Pcxbp1 -0.2070159 6.942454 2.75379163 0.11269434 0.20800429
Etv3 0.26406977 3.91685719 2.7529013 0.11274891 0.20805366
Fam179a 1.47616172 -0.4688586 2.75195046 0.11280722 0.20805366
Dok7 1.3897633 -0.7094101 2.75188883 0.1128111 0.20805366
Nemf 0.26924207 7.13975157 2.7516467 0.11282586 0.20805366
Mms19 0.44180681 3.6826746 2.7513856 0.11284188 0.20805366
Acvrlb 0.29113131 6.06409219 2.75127728 0.11284853 0.20805366
Acp2 0.21088806 5.75459214 2.74991541 0.11293215 0.20816864
Efhc1 -0.6233519 1.78039606 2.74866556 0.11300895 0.2081888
Slc10a4 -0.4493048 2.53480028 2.74860648 0.11301259 0.2081888
Prkag2os1 1.30114453 -0.1707102 2.74817687 0.113039 0.2081888
Prss12 0.48202186 1.85980198 2.74801204 0.11304914 0.2081888
Dse -0.5425199 3.90497036 2.74800855 0.11304935 0.2081888
Cdc42bpa 0.23661898 9.05411707 2.74702899 0.11309622 0.20826063
Ccdd6 0.7880312 0.48748189 2.74650057 0.11314214 0.20828137
A530054K11 0.24868412 5.33622178 2.74556865 0.11319953 0.20833957
Scrn1 0.30501357 5.45736724 2.74529647 0.1132163 0.20833957
Cs -0.1722972 7.85166602 2.74484653 0.11324403 0.20835145
Riok1 -0.3699369 3.87879186 2.74273152 0.11337446 0.20848396
Sptss1 -0.3199607 6.40935421 2.7427014 0.11337632 0.20848396
Ino80d 0.22967688 7.35145253 2.74257259 0.11338427 0.20848396
Fam114a2 -0.3316617 5.08308205 2.74222999 0.11340542 0.20848396
Mrpl49 -0.3852763 4.77436411 2.74171933 0.11343694 0.20848396
Gpx1 -0.4780139 6.58973415 2.7416901 0.11344375 0.20848396
E2f2 -0.677324 3.00064518 2.74099338 0.11348178 0.20851473
| Gene     | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Sprn     | 0.28962823 | 5.91404279 | 2.73915377 | 0.11359551 | 0.20868454 |
| Morn5    | -2.3989801 | -1.4756517 | 2.73863256 | 0.11362775 | 0.20870464 |
| Nduc2    | -0.3227914 | 5.2850835 | 2.73790186 | 0.11367297 | 0.20874856 |
| Hn1l     | -0.4679801 | 4.36652087 | 2.73723444 | 0.1137143 | 0.20875243 |
| Cadps    | 0.35083983 | 8.58472785 | 2.73674138 | 0.11374484 | 0.20875243 |
| Usp16    | -0.2416546 | 6.12332536 | 2.73660549 | 0.11375326 | 0.20875243 |
| Adam23   | 0.27771588 | 7.15181729 | 2.73649142 | 0.11376033 | 0.20875243 |
| Agtpbp1  | 0.24289804 | 8.9554073 | 2.73535516 | 0.11383075 | 0.20881998 |
| Dclre1a  | -0.4127302 | 3.56079589 | 2.73520964 | 0.11383978 | 0.20881998 |
| 1700030L20f | 0.7372709 | 1.35267767 | 2.73455885 | 0.11388014 | 0.20885492 |
| Phf21b   | -0.5731687 | 2.20988585 | 2.73411804 | 0.11390749 | 0.20886597 |
| Rbmx     | 0.20522031 | 6.76613628 | 2.73298996 | 0.11397752 | 0.20895527 |
| Slc22a23 | -0.2271011 | 6.19523421 | 2.7323311 | 0.11401845 | 0.20899118 |
| Sh3bg1l  | -0.2800242 | 8.852275 | 2.73144508 | 0.11407351 | 0.20903187 |
| Dna2     | 1.60324226 | -0.6860066 | 2.73100523 | 0.11410086 | 0.20903187 |
| Znhit3   | -0.3776618 | 3.91894958 | 2.73020513 | 0.11415062 | 0.20903187 |
| Clip1    | 0.28683039 | 7.59804925 | 2.73016869 | 0.11415289 | 0.20903187 |
| Stxbp5   | 0.32830702 | 7.72459988 | 2.72967394 | 0.11418367 | 0.20903187 |
| Maz      | 0.31756878 | 3.87511503 | 2.72925503 | 0.11420975 | 0.20903187 |
| Cd109    | 0.60342622 | 3.07290153 | 2.72895841 | 0.11422821 | 0.20903187 |
| Vmn2r86  | 0.96605458 | 0.46302815 | 2.72893514 | 0.11422966 | 0.20903187 |
| Fgf2     | -0.6059242 | 1.59855045 | 2.7288622 | 0.11423271 | 0.20903187 |
| Rfxap    | -0.4046905 | 4.03711884 | 2.72722619 | 0.11433613 | 0.20918203 |
| Zfp623   | -0.3882308 | 3.4205748 | 2.72469963 | 0.11449374 | 0.20942333 |
| Atg12    | -0.3089754 | 5.11943071 | 2.72442682 | 0.11451077 | 0.20942333 |
| Rpl3     | -0.3010157 | 8.2228053 | 2.72346275 | 0.11457099 | 0.209479 |
| Ccdc59   | -0.324795 | 5.04935982 | 2.7229366 | 0.11460387 | 0.209479 |
| Hs3st3b1 | -0.4444427 | 3.71015302 | 2.72291261 | 0.11460537 | 0.209479 |
| Sptb     | 0.49450659 | 5.42552413 | 2.72043043 | 0.11476065 | 0.20972369 |
| Pex11a   | -0.7635834 | 1.16454539 | 2.71962571 | 0.11481104 | 0.20973916 |
| Wasf3    | -0.2452006 | 5.95092442 | 2.71961114 | 0.11481194 | 0.20973916 |
| Mettl16  | -0.2735492 | 5.66215822 | 2.71893156 | 0.11485453 | 0.20977784 |
| Zbtb8os  | -0.4615768 | 4.06613915 | 2.71772935 | 0.1149299 | 0.20986779 |
| Focad    | 0.28759228 | 5.28452876 | 2.71746263 | 0.11494663 | 0.20986779 |
| Epb4.1   | 0.22628054 | 4.96364631 | 2.7168613 | 0.11498436 | 0.20988902 |
| Tmem130  | 0.32856702 | 5.16068055 | 2.71659432 | 0.11500111 | 0.20988902 |
| Flot2    | -0.244856 | 4.8676707 | 2.71600659 | 0.11503801 | 0.20991724 |
| Itpa     | -0.2743813 | 4.19649389 | 2.71533333 | 0.11508029 | 0.20995528 |
| B4gal5   | 0.30398738 | 4.63843676 | 2.71455477 | 0.1151292 | 0.21000541 |
| 2610507B11 | 0.18318962 | 8.00325485 | 2.71254404 | 0.11525565 | 0.21018167 |
| Zfp169   | 0.31046296 | 4.07761419 | 2.71229203 | 0.11527151 | 0.21018167 |
| Mrpl50   | -0.3245957 | 5.7014081 | 2.71190427 | 0.11529591 | 0.21019208 |
| Gnb1l    | -1.1961263 | 0.36464636 | 2.71129873 | 0.11533404 | 0.21022246 |
| Gene      | Value1     | Value2     | Value3     | Value4     | Value5     | Value6     | Value7     |
|-----------|------------|------------|------------|------------|------------|------------|------------|
| Hopx      | -0.5117102 | 3.04404463 | 2.7106197  | 0.11537681 | 0.21022882 |
| Dlx5      | 0.47702582 | 2.04843014 | 2.71021227 | 0.11540249 | 0.21022882 |
| Xpnpep2   | 1.49888031 | 0.25433481 | 2.70996194 | 0.11541826 | 0.21022882 |
| Cox4i1    | -0.4121247 | 6.74873163 | 2.70946167 | 0.1154498  | 0.21022882 |
| Mill2     | 0.95007887 | 0.60879185 | 2.70901345 | 0.11547807 | 0.21022882 |
| Ppp1r3c   | -0.3202754 | 6.08555093 | 2.70895727 | 0.11548161 | 0.21022882 |
| Mtcp1     | -0.4794563 | 3.03143394 | 2.70852289 | 0.11550901 | 0.21022882 |
| Pgp       | -0.266561  | 3.71346144 | 2.70851949 | 0.11550922 | 0.21022882 |
| Pard6g    | -0.3638533 | 5.59374964 | 2.7080581  | 0.11553834 | 0.21024274 |
| Churc1    | -0.2433016 | 4.54674334 | 2.70738149 | 0.11558105 | 0.21028139 |
| Smn1      | 0.36234536 | 4.31988517 | 2.70646277 | 0.11563907 | 0.21034789 |
| Kdm7a     | 0.2134553 | 7.30540922 | 2.70588492 | 0.11567558 | 0.21037524 |
| Slfn1     | -1.6609988 | -1.0410111 | 2.70476902 | 0.11574613 | 0.21044814 |
| Ets2      | 0.23853203 | 5.6900743  | 2.70457121 | 0.11575864 | 0.21044814 |
| Fam109a   | 0.68849095 | 0.94421152 | 2.70341279 | 0.11583194 | 0.21054233 |
| Prdx1     | -0.3045021 | 7.18344903 | 2.70178538 | 0.11593501 | 0.21069057 |
| Atxn7l1   | -0.210329  | 6.14296575 | 2.70046008 | 0.11601902 | 0.21080414 |
| Anp32b    | -0.2674262 | 8.28371329 | 2.6999642 | 0.11605047 | 0.21082219 |
| Slc12a5   | 0.30389372 | 7.82459709 | 2.69740651 | 0.11621287 | 0.21103247 |
| Gm16023   | 0.69094995 | 0.95694866 | 2.69730694 | 0.1162192 | 0.21103247 |
| Mov10l1   | 2.43462898 | -2.089242  | 2.69695635 | 0.11624148 | 0.21103247 |
| Morph4l1  | -0.2297737 | 8.47922785 | 2.69567217 | 0.11632314 | 0.21103247 |
| Ucp2      | -0.4860349 | 7.46890025 | 2.69562548 | 0.11632611 | 0.21103247 |
| Samd10    | -0.4471781 | 3.49672755 | 2.69558506 | 0.11632868 | 0.21103247 |
| Ttbk2     | 0.2460325 | 7.80790211 | 2.69535116 | 0.11634356 | 0.21103247 |
| Rapgef1   | 0.24599572 | 6.0110437  | 2.69511699 | 0.11635847 | 0.21103247 |
| Metrnl    | -0.5202394 | 2.14349993 | 2.69509089 | 0.11636013 | 0.21103247 |
| Eif2ak4   | 0.48726254 | 3.93746764 | 2.69448539 | 0.11639867 | 0.21106329 |
| Atpaf2    | 0.36085157 | 3.16296147 | 2.69408114 | 0.11642441 | 0.21107089 |
| Cml5      | 0.99133291 | 0.85791997 | 2.69362335 | 0.11645357 | 0.21107675 |
| Tnfrsf18  | 0.57546095 | 1.90014686 | 2.69278012 | 0.1165073 | 0.21107675 |
| Ube2n     | -0.1671367 | 7.43722179 | 2.69255495 | 0.11652165 | 0.21107675 |
| Xpnpep1   | -0.3089231 | 4.48513859 | 2.69253637 | 0.11652283 | 0.21107675 |
| Madd      | 0.31713136 | 6.89785884 | 2.69233949 | 0.11653538 | 0.21107675 |
| Gm765     | -0.4659196 | 2.83983776 | 2.69175244 | 0.11657282 | 0.21100072 |
| Jdp2      | -0.3161219 | 3.35051052 | 2.69145612 | 0.11659172 | 0.21110072 |
| Rhoc      | -0.4653115 | 3.48230513 | 2.68991036 | 0.11669037 | 0.21122778 |
| Biaap2    | 0.23872719 | 6.25207541 | 2.68680894 | 0.11670502 | 0.21122778 |
| Wnt2      | 1.51747018 | -1.0513622 | 2.68921502 | 0.11673479 | 0.21124262 |
| Ccdc13    | 1.43251204 | -0.3812154 | 2.68844935 | 0.11678371 | 0.21127515 |
| Gje1      | 0.6337857  | 1.15646148 | 2.68743665 | 0.11684545 | 0.21127515 |
| Ftsj2     | -0.7019838 | 2.03862433 | 2.68699789 | 0.11687653 | 0.21127515 |
| Mapre2    | -0.1779266 | 9.8021625 | 2.68689983 | 0.1168828  | 0.21127515 |
| Gene          | Value1  | Value2  | Value3  | Value4  | Value5  |
|--------------|--------|--------|--------|--------|--------|
| B3galnt2     | 0.29940057 | 3.82718944 | 2.61577551 | 0.1215403 | 0.21623313 |
| Plxnaos1     | 1.21412156 | -0.4873521 | 2.61575449 | 0.12154171 | 0.21623313 |
| Mrpl51       | -0.2412193 | 5.05127658 | 2.61569672 | 0.12154558 | 0.21623313 |
| Dnmt1        | 0.30604684 | 5.72564765 | 2.61492754 | 0.12159714 | 0.21628558 |
| Med27        | -0.4926952 | 3.23350047 | 2.6122449 | 0.12177718 | 0.21652833 |
| Psmc2        | -0.1801844 | 6.27084943 | 2.61223525 | 0.12177783 | 0.21652833 |
| Gpr171       | 0.7355213 | 1.52802902 | 2.61165157 | 0.12181704 | 0.21655875 |
| Imp4         | -0.3154127 | 4.57065773 | 2.61087366 | 0.12186933 | 0.21661239 |
| Tnrc6a       | 0.22980624 | 6.73545539 | 2.60901494 | 0.12199437 | 0.21677075 |
| Vezf1        | -0.2449787 | 7.58884059 | 2.60889145 | 0.12200269 | 0.21677075 |
| Otud4        | 0.21760851 | 6.54656309 | 2.60787534 | 0.12207111 | 0.21680378 |
| Stmn3        | -0.2893943 | 5.74413792 | 2.60763798 | 0.1220871 | 0.21680378 |
| Zwint        | -0.1723631 | 6.89570744 | 2.60762948 | 0.12208768 | 0.21680378 |
| Kremen2      | -1.0766889 | -0.7455648 | 2.60640604 | 0.12217014 | 0.21688506 |
| BC051142     | 0.83297476 | 1.26833807 | 2.6061689 | 0.12218613 | 0.21688506 |
| 290076A07    | 0.76119719 | 0.95672739 | 2.6058327 | 0.12220881 | 0.21688506 |
| Slc12a4      | 0.8543186 | 1.46995527 | 2.60563686 | 0.12222202 | 0.21688506 |
| Wnk2         | 0.33386556 | 6.04766164 | 2.6040255 | 0.12233078 | 0.21699605 |
| Hcn3         | 0.61577701 | 1.66083011 | 2.60372877 | 0.12235082 | 0.21699605 |
| Zfp687       | -0.3603886 | 3.60778931 | 2.60372582 | 0.12235102 | 0.21699605 |
| Gm1987       | 1.91457219 | -1.4241787 | 2.60162996 | 0.12249269 | 0.21717424 |
| Rpgrip1      | -1.4305646 | -0.9646415 | 2.60158356 | 0.12249583 | 0.21717424 |
| Cirbp        | -0.5055211 | 4.87862209 | 2.60053178 | 0.122567 | 0.21726109 |
| Rps8         | -0.3269643 | 7.08743797 | 2.59927057 | 0.12265241 | 0.21734771 |
| Camk1g       | 0.42342812 | 4.06859878 | 2.59903218 | 0.12266856 | 0.21734771 |
| Acot1        | -0.2776057 | 3.95154939 | 2.59882743 | 0.12268243 | 0.21734771 |
| Epor         | 0.80567967 | 0.39059471 | 2.59814942 | 0.12272839 | 0.21735836 |
| Zfp46        | -0.2083821 | 5.51714231 | 2.59808403 | 0.12273282 | 0.21735836 |
| Myo3b        | 0.91417551 | 0.40957379 | 2.59703145 | 0.12280421 | 0.21743927 |
| Cox19        | -0.3537399 | 3.39470768 | 2.5967559 | 0.12282291 | 0.21743927 |
| Actr5        | 1.1790189 | 0.81993134 | 2.59638038 | 0.12284839 | 0.21744509 |
| Timm9        | -0.2580656 | 4.92435511 | 2.59533531 | 0.12291935 | 0.21753138 |
| Dlat         | -0.2006167 | 8.21845619 | 2.59483868 | 0.12295309 | 0.21755178 |
| Cct3         | 0.2311252 | 5.12571248 | 2.59379973 | 0.1230237 | 0.21763741 |
| 2810474019   | 0.22065938 | 6.6693074 | 2.5932421 | 0.12306162 | 0.2176439 |
| Ccnb2        | 1.35942663 | -0.2245179 | 2.59309233 | 0.12307181 | 0.2176439 |
| Rps19        | -0.3790486 | 4.67855439 | 2.59186312 | 0.12315546 | 0.21774808 |
| Fbw10        | -0.8401864 | 6.8857113 | 2.59129744 | 0.12319398 | 0.21774808 |
| S1c5a6       | 0.38190781 | 4.25431609 | 2.59099004 | 0.12321489 | 0.21774808 |
| Pde9a        | 0.68952003 | 2.03889486 | 2.59063626 | 0.12323901 | 0.21774808 |
| Mettl5       | -0.3535572 | 3.45748939 | 2.59059433 | 0.12324187 | 0.21774808 |
| Gm12191      | -0.5620711 | 1.2385392 | 2.58970384 | 0.12330256 | 0.21777275 |
| Ust          | -0.4335242 | 5.5251111 | 2.58946719 | 0.12331869 | 0.21777275 |
| 07-Mar  | 0.25832062 | 4.80727516 | 2.58941903 | 0.12332253 | 0.21777275 |
|----------|------------|------------|------------|-------------|------------|
| Prkch    | 0.37559584 | 3.34017799 | 2.58864712 | 0.12337463 | 0.21781709 |
| Sult5a1  | -1.3457639 | -0.535735  | 2.58839082 | 0.12339211 | 0.21781709 |
| Tcam1    | -3.8460548 | -1.9937716 | 2.62620558 | 0.12360958 | 0.21816165 |
| Irgm1    | -0.3898883 | 4.39098843 | 2.58473272 | 0.12364201 | 0.21817405 |
| Agap1    | 0.244836   | 6.71017495 | 2.58401817 | 0.1236909 | 0.21817405 |
| Pou2f3   | 1.03107124 | 1.17603717 | 2.58381182 | 0.12370502 | 0.21817405 |
| 9530059O14| 0.89802291 | 2.91368661 | 2.58380194 | 0.1237057 | 0.21817405 |
| Mapk11   | 0.38857829 | 3.69421599 | 2.58306938 | 0.12375584 | 0.21819767 |
| Plcb4    | 0.27673385 | 7.05152563 | 2.58256448 | 0.12379042 | 0.21819767 |
| 2610207O16| 1.02741271 | 0.22999278 | 2.58230667 | 0.12380808 | 0.21819767 |
| Zfyve26  | 0.3345482 | 4.09534786 | 2.58155376 | 0.12385967 | 0.21819767 |
| Igfbp3   | -0.5079083 | 3.83518722 | 2.58120576 | 0.12388353 | 0.21819767 |
| Mrap2    | -0.9333337 | 1.52222856 | 2.58115496 | 0.12388701 | 0.21819767 |
| Epha10   | 0.89539303 | 2.34216075 | 2.58107203 | 0.1238927 | 0.21819767 |
| Syce2    | 0.65489553 | 1.79897998 | 2.58100493 | 0.1238973 | 0.21819767 |
| Snrpn    | -0.6420395 | 0.80614836 | 2.57965488 | 0.1239899 | 0.21823341 |
| Ahdc1    | 0.27282112 | 4.66728877 | 2.57961762 | 0.12399246 | 0.21823341 |
| Tspan9   | -0.4217978 | 3.49513706 | 2.57881418 | 0.12404761 | 0.21823341 |
| Asic4    | 1.00219474 | -0.0935885 | 2.57880357 | 0.12404834 | 0.21823341 |
| Cstf1    | 0.39762023 | 2.83750905 | 2.57867025 | 0.1240575 | 0.21823341 |
| Pard3b   | -0.3647199 | 3.32297747 | 2.57863274 | 0.12406007 | 0.21823341 |
| Fndc8    | -2.4612513 | -2.2316128 | 2.57828232 | 0.12408414 | 0.21823341 |
| Sox21    | 0.40275643 | 3.44466163 | 2.57794817 | 0.12410709 | 0.21823341 |
| Grk6     | 0.39726517 | 2.89637392 | 2.57778792 | 0.1241181 | 0.21823341 |
| Tjp2     | -0.2382366 | 5.62012645 | 2.57731532 | 0.12415058 | 0.21825134 |
| Rpl7a    | -0.2982593 | 7.31122517 | 2.57639147 | 0.1242141 | 0.21832382 |
| Unc93a   | 1.90961285 | -0.8055965 | 2.57571745 | 0.12426046 | 0.21835914 |
| Iggag2   | 0.2910669 | 4.97802915 | 2.57545126 | 0.12427878 | 0.21835914 |
| Paqr7    | 0.24432377 | 4.56034292 | 2.57451591 | 0.12430699 | 0.21838576 |
| Phld2b   | -0.3346183 | 7.68725526 | 2.57434644 | 0.12435484 | 0.21838576 |
| 2410018L13f| -0.4578916 | 1.73556512 | 2.57398924 | 0.12437944 | 0.21838576 |
| Zfp386   | -0.2297501 | 5.38364077 | 2.573936 | 0.12438311 | 0.21838576 |
| Gm3985   | 1.33651298 | -0.8746755 | 2.57289659 | 0.12445473 | 0.21847235 |
| Irf6     | -0.4529287 | 3.74546148 | 2.5725478 | 0.12447878 | 0.21847541 |
| Ilf2     | -0.2837073 | 4.67135398 | 2.57176971 | 0.12453244 | 0.21853044 |
| Sdc3     | 0.24786142 | 5.2388551 | 2.57112586 | 0.12457686 | 0.21856924 |
| Rps20    | -0.294067 | 6.34851348 | 2.56991158 | 0.1246607 | 0.21867715 |
| L116     | -0.6913173 | 1.13578219 | 2.56901982 | 0.12472231 | 0.21873008 |
| Zfp783   | 0.6918558 | 1.36514797 | 2.56882852 | 0.12473553 | 0.21873008 |
| Spata4   | 2.0574924 | -1.0776967 | 2.56681363 | 0.12487489 | 0.21893526 |
| Klc1     | -0.226904 | 7.49123601 | 2.56634077 | 0.12490762 | 0.21893545 |
| Diap1    | 0.24245255 | 4.50604362 | 2.56587234 | 0.12494005 | 0.21897112 |
| Gene  | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|-------|---------|---------|---------|---------|---------|---------|
| Hck   | -1.3312566 | -0.4803346 | 2.56525736 | 0.12498265 | 0.21900659 |
| A1317395 | -1.6823611 | -0.8851693 | 2.56479663 | 0.12501457 | 0.21901734 |
| Eif2ak1 | -0.2112969 | 6.22664605 | 2.56452359 | 0.1250335 | 0.21901734 |
| Tnni2  | -1.8282186 | -1.3371784 | 2.5638674 | 0.12507899 | 0.21905785 |
| Snurf  | 0.61266467 | 1.5189843 | 2.56338064 | 0.12511275 | 0.21907781 |
| Ccl2   | -2.0468093 | 0.31341969 | 2.56229787 | 0.12518788 | 0.2191591 |
| Abcb9  | -0.6356917 | 1.61859793 | 2.56206687 | 0.12520392 | 0.2191591 |
| Sdr2   | 0.22307853 | 5.19264066 | 2.56164239 | 0.1252334 | 0.21917152 |
| A1506816 | 1.58882855 | -1.375879 | 2.56079143 | 0.12529251 | 0.21923451 |
| Cfcp1  | -0.3010879 | 6.92855852 | 2.56047997 | 0.12531415 | 0.21923451 |
| Tbp    | -0.1963985 | 5.33457464 | 2.55865239 | 0.12544124 | 0.21941767 |
| Smim7  | -0.3387788 | 6.30717233 | 2.5578483 | 0.12549721 | 0.21947637 |
| Gpr18  | 1.33190715 | -0.4416102 | 2.55619934 | 0.12561417 | 0.21962029 |
| Cyp11a1| 1.04089614 | -0.1870064 | 2.55574727 | 0.12564359 | 0.21962029 |
| Pip5kl1| 1.2570845 | 0.28413704 | 2.55570167 | 0.12564677 | 0.21962029 |
| Hoxd11 | 1.18799334 | -0.3836331 | 2.55316014 | 0.12582411 | 0.21989103 |
| Lrrc9  | 0.82059016 | 1.59318861 | 2.55270107 | 0.12585617 | 0.21990783 |
| Insl6  | -0.8051843 | 1.1793507 | 2.55227063 | 0.12588625 | 0.21992115 |
| Gpr3   | -0.7516091 | 1.08837726 | 2.5517056 | 0.12592574 | 0.21995091 |
| Man1a2 | 0.19843088 | 7.88075799 | 2.55074478 | 0.12599292 | 0.2199757 |
| Prps2  | 0.22822881 | 6.17915191 | 2.55046318 | 0.12601262 | 0.2199757 |
| Prdx3  | -0.2836586 | 5.17439889 | 2.55019377 | 0.12603147 | 0.2199757 |
| Rps19bp1| -0.3826336 | 2.88831036 | 2.55016016 | 0.12603382 | 0.2199757 |
| Endog  | -1.3862815 | -0.8303844 | 2.54966236 | 0.12606866 | 0.2199757 |
| Man2a1 | 0.199678 | 6.07197675 | 2.54957654 | 0.12607467 | 0.2199757 |
| Fam131a| -0.260945 | 5.2288787 | 2.54905946 | 0.12611087 | 0.21999968 |
| Ccdc127| -0.1916944 | 6.5235289 | 2.54831953 | 0.1261627 | 0.2200509 |
| Ptprt  | 0.35271264 | 6.91884679 | 2.54797051 | 0.12618716 | 0.22005437 |
| Arl14ep| -0.2020076 | 6.37628164 | 2.54679307 | 0.1262697 | 0.22015149 |
| Ankrd55| 0.46668083 | 2.6483128 | 2.54651132 | 0.12628946 | 0.22015149 |
| Get4   | -0.3231209 | 3.89752722 | 2.54621467 | 0.12631027 | 0.22015149 |
| 3632454L22f| 0.87662318 | 0.7864583 | 2.54579497 | 0.12633972 | 0.22016364 |
| Arfgef1| 0.23791804 | 7.73294247 | 2.54477014 | 0.12641167 | 0.22023906 |
| Sra1   | -0.2788011 | 5.14917602 | 2.54453805 | 0.12642797 | 0.22023906 |
| Cltn3  | 0.3673227 | 4.49061883 | 2.54388182 | 0.12647407 | 0.22028019 |
| Pithd1 | -0.2914602 | 4.77159265 | 2.54355052 | 0.12649735 | 0.22028157 |
| Vim    | -0.3319394 | 8.07016048 | 2.53778813 | 0.12690311 | 0.22086466 |
| Trappc11 | 0.24056717 | 5.46142792 | 2.53775027 | 0.12690579 | 0.22086466 |
| Cog2   | 0.31246838 | 3.48085586 | 2.5377171 | 0.12690813 | 0.22086466 |
| Pan2   | 0.40120566 | 3.5095207 | 2.53722852 | 0.1269426 | 0.22086466 |
| Pou2af1| -0.5273206 | 4.81348343 | 2.53719561 | 0.12694493 | 0.22086466 |
| Tax1bp3| -0.4787 | 4.64836874 | 2.53546161 | 0.12706738 | 0.22102673 |
| Nin    | 0.22355297 | 6.83042218 | 2.53523758 | 0.12708321 | 0.22102673 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-------|---------|---------|---------|---------|---------|---------|
| Inmp2l| -1.0027465 | -0.0527315 | 2.53476284 | 0.12711677 | 0.22104585 |
| Homer2| 0.2078624 | 7.54094242 | 2.53438482 | 0.12714349 | 0.22105308 |
| Rnaset2b| -0.4171111 | 4.08648288 | 2.53331333 | 0.12721929 | 0.2211074 |
| Mx1   | 1.42607564 | 0.01692365 | 2.53330486 | 0.12721988 | 0.2211074 |
| Mxpl1 | -0.3681463 | 3.20946085 | 2.53266503 | 0.12726517 | 0.22114687 |
| Pof1b | -0.9652415 | 0.09221184 | 2.53117778 | 0.1273705 | 0.22126855 |
| Ssbp2 | 0.2222736 | 6.26453336 | 2.53043167 | 0.12742339 | 0.22126855 |
| Zfkh3 | -0.1910155 | 7.2958918 | 2.53037916 | 0.12742711 | 0.22126855 |
| Stk10 | -0.3288479 | 3.50792912 | 2.5298104 | 0.12746744 | 0.22126855 |
| Bdp1  | 0.24751343 | 7.43458905 | 2.52971034 | 0.12747454 | 0.22126855 |
| D630023F18 | 0.48936339 | 2.00640674 | 2.52964759 | 0.12747899 | 0.22126855 |
| Prune2| -0.2062097 | 6.64228343 | 2.52944558 | 0.12749332 | 0.22126855 |
| Idh2  | -0.3801644 | 4.04339643 | 2.52750247 | 0.12763126 | 0.22141244 |
| Hecw2 | 0.34721573 | 6.36028967 | 2.52733435 | 0.12764319 | 0.22141244 |
| Fbn2  | 0.65038628 | 1.50799282 | 2.52732258 | 0.12764404 | 0.22141244 |
| B3galt4| 1.55788676 | -0.7880389 | 2.52601125 | 0.12773724 | 0.22153487 |
| 1700110I01R | 0.83005142 | 1.59061764 | 2.52497473 | 0.12781096 | 0.2216235 |
| Sema3f | -0.8452475 | 0.80992883 | 2.52366572 | 0.12790414 | 0.22174582 |
| Bcr   | 0.2999078 | 6.07003854 | 2.52296164 | 0.1279543 | 0.22179351 |
| Traip | 1.0865209 | 0.84322021 | 2.52142097 | 0.12806412 | 0.22194461 |
| Bach2 | 0.33994551 | 4.71649395 | 2.51998217 | 0.12816679 | 0.22208324 |
| Apol9a| 1.65888006 | -1.0042618 | 2.51871462 | 0.12825732 | 0.2222008 |
| Col20a1| 0.78311555 | 1.24662046 | 2.51784511 | 0.12831946 | 0.222236 |
| Dcp2  | -0.1997955 | 7.18498446 | 2.51779546 | 0.12832301 | 0.222236 |
| Rbbp7 | -0.206699 | 7.41912342 | 2.51745326 | 0.12834748 | 0.2223908 |
| Gm15408| 1.33203265 | -0.4333354 | 2.51682064 | 0.12839273 | 0.2227814 |
| Ccne2 | 0.5960907 | 1.99831562 | 2.5164231 | 0.12842117 | 0.2228809 |
| Gabra4| 0.27299733 | 5.85303945 | 2.51451538 | 0.12855777 | 0.2224852 |
| Tarbp2| 0.43381266 | 2.33320718 | 2.5136923 | 0.12861676 | 0.22254799 |
| E030030I06R | 0.53402648 | 2.81872364 | 2.5132353 | 0.12864952 | 0.22256537 |
| Cop2  | -0.4911067 | 6.78348118 | 2.51272783 | 0.12868592 | 0.22258574 |
| Ube2v2| -0.199013 | 6.88664878 | 2.51243759 | 0.12870674 | 0.22258574 |
| Myl9  | -0.5152235 | 5.49638529 | 2.51062793 | 0.12883666 | 0.22277109 |
| Uck2  | -0.3428766 | 3.46702241 | 2.50967451 | 0.12890517 | 0.22283691 |
| Vprbp | 0.22260586 | 6.75123308 | 2.50946509 | 0.12892023 | 0.22283691 |
| Slco4c1| 0.53695677 | 2.13125651 | 2.50878371 | 0.12896922 | 0.22288227 |
| Pmaip1| -0.4031462 | 3.4226659 | 2.50712877 | 0.12908832 | 0.22303701 |
| Pmpcb | -0.2077564 | 5.02703198 | 2.50690677 | 0.1291043 | 0.22303701 |
| Soga1 | 0.18603536 | 7.13274724 | 2.50645624 | 0.12913675 | 0.22305373 |
| Bysl  | -0.320787 | 3.83428023 | 2.50585851 | 0.12917982 | 0.22308877 |
| Fbxo33| -0.2772546 | 4.86532221 | 2.50530354 | 0.12921982 | 0.22311852 |
| Neu1  | -0.3496074 | 3.96564936 | 2.50468582 | 0.12930889 | 0.22323296 |
| Ncoa5 | -0.3143024 | 4.6525009 | 2.50364651 | 0.12933934 | 0.2232376 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Rbm7  | -0.2950948 | 5.12838101 | 2.50322236 | 0.12936995 | 0.2232376 |
| Psmb3 | -0.2912378 | 4.45844632 | 2.50308396 | 0.12937995 | 0.2232376 |
| Ino80 | 0.26721784 | 5.08845141 | 2.50274819 | 0.12940419 | 0.22323815 |
| Tmem151b | 0.40535957 | 4.64429496 | 2.5024483 | 0.12942585 | 0.22323815 |
| Slc6a6 | 0.19128712 | 7.94764577 | 2.50148615 | 0.12949536 | 0.22331873 |
| Dguk | -0.4705098 | 2.97350383 | 2.49909137 | 0.12966858 | 0.22357809 |
| Smchd1 | 0.24637577 | 6.18192511 | 2.49873148 | 0.12969464 | 0.22358118 |
| Sepn1 | 0.46617085 | 3.45527772 | 2.49841481 | 0.12971757 | 0.22358118 |
| Nfkbil1 | 1.05914204 | -0.2143319 | 2.49786935 | 0.12975708 | 0.22358118 |
| Pitpnc1 | 0.18496954 | 6.72428963 | 2.4978059 | 0.12976167 | 0.22358118 |
| Plch2 | 0.51380934 | 3.25218423 | 2.49625978 | 0.12987375 | 0.22373494 |
| Bckdk | -0.2586637 | 4.30818593 | 2.49520127 | 0.12995055 | 0.2238236 |
| Ifi204 | 1.16970358 | -0.3667039 | 2.4949206 | 0.12997092 | 0.2238236 |
| Syt2 | -0.2748224 | 5.78833679 | 2.49405955 | 0.13003344 | 0.2238326 |
| Stk35 | -0.2324255 | 5.14102998 | 2.49372522 | 0.13005773 | 0.2238326 |
| Specf | -0.8094503 | 0.09680215 | 2.49348092 | 0.13007548 | 0.2238326 |
| BC039771 | 0.68078537 | 0.57098261 | 2.4933669 | 0.13008376 | 0.2238326 |
| 2410004B18 | -0.235449 | 5.13862067 | 2.49323209 | 0.13009356 | 0.2238326 |
| Capns1 | -0.3164319 | 9.23059355 | 2.49296111 | 0.13011325 | 0.2238326 |
| Evc2 | 0.60459727 | 2.24314415 | 2.49203684 | 0.13018045 | 0.22390889 |
| Atg9a | 0.27650983 | 5.13802662 | 2.48939802 | 0.13037255 | 0.2241735 |
| Sorl1 | 0.30221102 | 6.15766545 | 2.48929474 | 0.13038007 | 0.2241735 |
| Ubb | -0.4216199 | 6.41461667 | 2.48791587 | 0.13048059 | 0.22430366 |
| Celf5 | 0.23824223 | 6.86974412 | 2.48741578 | 0.13051707 | 0.22430366 |
| Nupr1 | -0.4676447 | 6.67529031 | 2.48677801 | 0.1305636 | 0.22430366 |
| Gm6654 | -0.8048856 | 0.80954439 | 2.48666051 | 0.13057218 | 0.22430366 |
| Spag9 | 0.19246799 | 8.37034525 | 2.48646201 | 0.13058667 | 0.22430366 |
| Sfb34 | -0.2796533 | 4.65157292 | 2.48637303 | 0.13059317 | 0.22430366 |
| Tenc1 | -0.3349127 | 5.97022186 | 2.48575235 | 0.13063849 | 0.22434216 |
| Plefkg2 | -0.3835471 | 4.20003844 | 2.48471946 | 0.13071395 | 0.2243679 |
| Rexo2 | -0.2090082 | 6.99962684 | 2.4844315 | 0.130735 | 0.2243679 |
| Zdhhc21 | 0.24474235 | 6.37299455 | 2.48442929 | 0.13073516 | 0.2243679 |
| Zfp82 | 0.59047945 | 1.45211517 | 2.48368851 | 0.13078933 | 0.2243679 |
| Tm6sf2 | 1.75669202 | -1.4528194 | 2.48367409 | 0.13079038 | 0.2243679 |
| Trem2 | 1.2187747 | -0.4979594 | 2.4836669 | 0.13079091 | 0.2243679 |
| Zscan18 | 0.31515022 | 3.71227459 | 2.48269627 | 0.13086192 | 0.22443593 |
| Gbas | -0.2336954 | 6.53615095 | 2.48241914 | 0.1308822 | 0.22443593 |
| Gm12504 | 0.92139179 | 8.51083982 | 2.48195076 | 0.13091649 | 0.22443593 |
| Ccdc77 | 0.37462377 | 3.53799165 | 2.48187266 | 0.13092221 | 0.22443593 |
| Gria3 | 0.28612797 | 8.51083982 | 2.48121843 | 0.13097013 | 0.22445595 |
| Lypd1 | -0.3304565 | 4.83227986 | 2.48085947 | 0.13099643 | 0.22445595 |
| Als2cl | -0.746128 | 0.5495359 | 2.48077472 | 0.13100264 | 0.22445595 |
| Crispd1 | -0.3507589 | 3.89178035 | 2.48043133 | 0.13102781 | 0.22445981 |
| Gene | Value1 | Value2 | Value3 | Value4 | Value5 |
|------|--------|--------|--------|--------|--------|
| Alg5 | -0.5064924 | 3.24676587 | 2.47896381 | 0.13113542 | 0.22460096 |
| Fancg | 0.45153938 | 2.75922905 | 2.47853942 | 0.13116656 | 0.22460096 |
| Kcnn4 | -2.6604307 | -1.6284853 | 2.47837014 | 0.13117899 | 0.22460096 |
| Ccdc166 | -0.3856901 | 3.31457511 | 2.47715808 | 0.13126799 | 0.22468738 |
| Ruvbl2 | -0.2740958 | 4.49916799 | 2.47678067 | 0.13129571 | 0.22468738 |
| Gucd1 | -0.4519068 | 3.58927075 | 2.47674577 | 0.13129828 | 0.22468738 |
| Surs | -0.2780066 | 4.81691384 | 2.47581478 | 0.13136671 | 0.22473203 |
| Cytt1 | -1.9412611 | -0.5109423 | 2.47528905 | 0.13140537 | 0.22473203 |
| Braf | 0.20944807 | 8.58365271 | 2.47518008 | 0.13141333 | 0.22473203 |
| Slc45a4 | 0.32803984 | 3.61257026 | 2.47514252 | 0.13141614 | 0.22473203 |
| Cox4i2 | 1.63003241 | -1.5290112 | 2.47407571 | 0.13149464 | 0.22482702 |
| A930012L18 | -0.5415412 | 2.57284962 | 2.47327724 | 0.13155343 | 0.22485689 |
| Afap11 | -0.3170195 | 5.54664804 | 2.47321429 | 0.13155082 | 0.22485689 |
| Lgals1 | -0.1814021 | 6.23959162 | 2.47275754 | 0.13159171 | 0.22487524 |
| Tada2a | 0.30526517 | 3.75529382 | 2.47221732 | 0.13163152 | 0.22490403 |
| Us4 | 0.23403771 | 5.49972037 | 2.47133036 | 0.13169691 | 0.22497651 |
| Hs3d3b7 | -0.3956852 | 2.68274283 | 2.47099667 | 0.13172152 | 0.22497931 |
| Ranbp3l | -0.3183075 | 7.77261109 | 2.47005796 | 0.13179078 | 0.22498315 |
| Ndufb6 | -0.2908305 | 8.63196151 | 2.47004481 | 0.13179175 | 0.22498315 |
| Thumpd2 | 0.53427245 | 1.67259557 | 2.46986664 | 0.1318049 | 0.22498315 |
| Znrd1as | -0.3436559 | 3.55287635 | 2.46961281 | 0.13182364 | 0.22498315 |
| Sh3pxd2b | -0.2646705 | 4.59955708 | 2.46941013 | 0.13183861 | 0.22498315 |
| Adat1 | 0.5325302 | 1.8778403 | 2.46828961 | 0.13192138 | 0.22508518 |
| Pcg1f | -0.4578538 | 3.18836724 | 2.4675636 | 0.13195704 | 0.2251855 |
| Acadvl | -0.3146824 | 4.90350757 | 2.46740312 | 0.1319869 | 0.2251855 |
| Pramef8 | -0.3493626 | 4.01107825 | 2.4666749 | 0.13204076 | 0.2251712 |
| Ap4e1 | 0.36421065 | 4.05886757 | 2.46587815 | 0.13209971 | 0.22523253 |
| Med30 | -0.4201243 | 3.31133533 | 2.46403814 | 0.13223598 | 0.22545263 |
| Lrch2 | 0.35647981 | 4.19729802 | 2.46319623 | 0.13229839 | 0.22546146 |
| Oral2 | -0.3329353 | 3.83792651 | 2.46313362 | 0.13230303 | 0.22546146 |
| Tob2 | -0.2841405 | 5.13169507 | 2.46192659 | 0.13239257 | 0.2255748 |
| Emg1 | -0.4989186 | 2.94861394 | 2.46129484 | 0.13243946 | 0.22561545 |
| Alg2 | 0.17231137 | 7.44663579 | 2.46027994 | 0.13251484 | 0.2257046 |
| Zfp654 | 0.29516369 | 5.43811225 | 2.4598658 | 0.13254561 | 0.22571776 |
| Ccno | 1.70808858 | -0.7397575 | 2.45941825 | 0.13257887 | 0.22573516 |
| Acox3 | 0.28000717 | 4.07254784 | 2.45904188 | 0.13260685 | 0.22574357 |
| Mtpn | -0.1972875 | 10.0811484 | 2.45857676 | 0.13264144 | 0.22575452 |
| Uck1 | -0.3142042 | 3.16796925 | 2.45820474 | 0.13266911 | 0.22575452 |
| Stoml3 | -2.4696446 | -1.6978164 | 2.45784225 | 0.13269608 | 0.22575452 |
| Coch | -0.2842779 | 7.79535415 | 2.45743245 | 0.13272658 | 0.22575452 |
| Taf15 | 0.27082634 | 5.09488274 | 2.45740637 | 0.13272852 | 0.22575452 |
| Osgin1 | -1.1486898 | 0.20312214 | 2.45709065 | 0.13275203 | 0.2257553 |
| Camta1 | 0.33832993 | 9.37254189 | 2.45675003 | 0.13277739 | 0.22575924 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------|
| Fsd1l  | 0.29556337 | 6.17601251 | 2.45573809 | 0.13285277 | 0.2258482 |
| Smarcl1 | 0.31006675 | 6.14881675 | 2.45509361 | 0.13290081 | 0.22589066 |
| Aox3   | -0.3129751 | 6.1406988 | 2.45433252 | 0.13295756 | 0.22594792 |
| Olfr464 | -2.3329376 | -1.94639999 | 2.45372307 | 0.13300303 | 0.22595327 |
| Fes    | -1.3248167 | -0.3101794 | 2.45367195 | 0.13300685 | 0.22595327 |
| Slc4a5 | 0.58689351 | 1.67814149 | 2.45256595 | 0.13308941 | 0.22602825 |
| Serpinb1b | 1.07398198 | -0.1128303 | 2.45246251 | 0.13309713 | 0.22602825 |
| Capn10 | -0.4328396 | 2.36488744 | 2.45086157 | 0.13321676 | 0.22619219 |
| Nfu1   | -0.2850234 | 4.48020055 | 2.44962605 | 0.13330917 | 0.22630597 |
| Ppfia3 | 0.32150954 | 4.67632354 | 2.44915808 | 0.13334419 | 0.22630597 |
| Gm6994 | 1.00274925 | 0.04688228 | 2.44903931 | 0.13335308 | 0.22630597 |
| H2-M3  | -0.6259393 | 2.40479271 | 2.44683621 | 0.13351812 | 0.22646441 |
| Pet112 | 0.39065942 | 2.78670512 | 2.44655359 | 0.1335393 | 0.22646441 |
| Dpp7   | 0.57731403 | 1.49041866 | 2.44650329 | 0.13354308 | 0.22646441 |
| Pthr2  | 0.23299534 | 4.96435401 | 2.44600891 | 0.13358015 | 0.22646441 |
| Kif16b | -0.2081031 | 4.96535644 | 2.44540038 | 0.13362581 | 0.22646441 |
| Svi1   | -0.19487999 | 5.08626736 | 2.44539799 | 0.13362599 | 0.22646441 |
| Parp12 | -0.3178762 | 4.35770763 | 2.44537059 | 0.13362804 | 0.22646441 |
| Pip5k2 | 0.2518726 | 5.30691516 | 2.44532577 | 0.1336314 | 0.22646441 |
| Ax3    | -0.5369248 | 3.2206397 | 2.44393031 | 0.13373617 | 0.22660276 |
| Efhc2  | 0.71200547 | 2.12178194 | 2.44323936 | 0.13378808 | 0.22665151 |
| Pcdh17 | 0.29882043 | 6.97977252 | 2.44205744 | 0.13387693 | 0.22673711 |
| Pcdha6 | 0.99035343 | 0.30558676 | 2.44194471 | 0.13388541 | 0.22673711 |
| 1700123021 | 1.82632167 | -1.0875901 | 2.44157088 | 0.13391353 | 0.22673711 |
| Rpl22l1 | -0.30375 | 5.0394012 | 2.44133609 | 0.1339312 | 0.22673711 |
| Apc    | 0.30157352 | 9.68081644 | 2.44084997 | 0.13396778 | 0.22675985 |
| Tbc1d23 | 0.29026164 | 4.34883226 | 2.43988706 | 0.13404028 | 0.22684337 |
| Rarres1 | 1.90075117 | -0.6069795 | 2.4389389 | 0.13411172 | 0.22692505 |
| Cap2   | 0.27780088 | 8.29989561 | 2.43825705 | 0.13416312 | 0.22697282 |
| Rab1b  | -0.3663545 | 4.50357591 | 2.43788766 | 0.13419097 | 0.22698074 |
| Slc39a10 | 0.20928517 | 8.38104969 | 2.4364114 | 0.13430236 | 0.22712993 |
| Col14a1 | -0.7886897 | 0.85800448 | 2.43482771 | 0.13442198 | 0.22725857 |
| Cnr2   | 0.6938306 | 0.95599685 | 2.4347435 | 0.13442835 | 0.22725857 |
| Hunk   | 0.31250183 | 4.23948636 | 2.43424183 | 0.13446627 | 0.22725857 |
| Itkpa  | 0.2916967 | 4.18836864 | 2.4341762 | 0.13447123 | 0.22725857 |
| Mrpl14 | -0.5064941 | 3.03606529 | 2.43225453 | 0.13461662 | 0.22746131 |
| Sylt1  | 1.29760226 | 0.01323853 | 2.43164847 | 0.13466251 | 0.22746131 |
| Hmgcl1 | 0.34795715 | 3.3541888 | 2.43145069 | 0.13467749 | 0.22746131 |
| C330006A16 | -0.2265137 | 5.98893754 | 2.43136369 | 0.13468408 | 0.22746131 |
| Gpr35  | 1.16588424 | 0.11747477 | 2.43071999 | 0.13473285 | 0.22750445 |
| Il22ra1 | 0.53751065 | 1.58253079 | 2.4303492 | 0.13476095 | 0.22751269 |
| Phtf1  | 0.19936708 | 5.56154343 | 2.4290935 | 0.13485618 | 0.22763422 |
| Mrpl39 | -0.2449349 | 5.38481267 | 2.42786988 | 0.13494904 | 0.22770641 |
| Gene   | Expression 1 | Expression 2 | Expression 3 | Expression 4 | Expression 5 |
|--------|-------------|-------------|-------------|-------------|-------------|
| Cnot4  | -0.2455995 | 7.41731286 | 2.42706721 | 0.13501001 | 0.22770641 |
| Nrns1  | -0.1988212 | 6.50508988 | 2.42697682 | 0.13501687 | 0.22770641 |
| Kat5   | -0.2334917 | 4.68628449 | 2.42660652 | 0.13504501 | 0.22770641 |
| Dnm1   | 0.20764143 | 8.30233516 | 2.4265459 | 0.13504962 | 0.22770641 |
| Krt9   | 0.30222243 | 3.95812675 | 2.42651391 | 0.13505205 | 0.22770641 |
| Mdh2   | -0.1792769 | 7.24664761 | 2.42638728 | 0.13506167 | 0.22770641 |
| Rassf1 | -0.4544248 | 3.92843638 | 2.42588584 | 0.13509979 | 0.22773148 |
| 0610010B08 | -0.3516254 | 4.54974306 | 2.42516064 | 0.13515494 | 0.22778525 |
| Rptoros| 1.94236175 | -1.2315957 | 2.42382372 | 0.13525668 | 0.22786913 |
| Snx7   | -0.3831071 | 4.97341229 | 2.42375447 | 0.13526196 | 0.22786913 |
| Umps   | -0.2704138 | 4.08953276 | 2.42336539 | 0.13529158 | 0.22786913 |
| Map4k3 | 0.2157065 | 6.59915635 | 2.42328428 | 0.13529776 | 0.22786913 |
| Prom1  | 0.50252419 | 2.67292899 | 2.42231111 | 0.13537191 | 0.22795481 |
| Lsm14a | -0.2122141 | 8.08565336 | 2.42145102 | 0.13543748 | 0.22801311 |
| Fdx1   | -0.3971878 | 5.38919564 | 2.42124637 | 0.13545308 | 0.22801311 |
| Gm20187| 1.28280977 | 0.42513865 | 2.42023302 | 0.1355304 | 0.2280842 |
| Hnrnpm | 0.20184214 | 6.77001369 | 2.42008247 | 0.13554189 | 0.2280842 |
| Tor4a  | 0.36925129 | 3.20994434 | 2.41827347 | 0.13568005 | 0.22827748 |
| Ech1   | -0.4333686 | 3.948323 | 2.41783738 | 0.13571338 | 0.22827997 |
| Ccnc42 | 1.58842779 | -1.1815401 | 2.41748376 | 0.13574042 | 0.22827997 |
| Ptp4a1 | -0.2938034 | 4.59349163 | 2.41707633 | 0.13577157 | 0.22827997 |
| Ehf    | -0.9306243 | 0.6050469 | 2.41703478 | 0.13577475 | 0.22827997 |
| Sh3rf2 | -0.3666905 | 3.63581108 | 2.41592527 | 0.13585964 | 0.22833727 |
| Dpf3   | -1.0212024 | 0.0628116 | 2.41576774 | 0.1358717 | 0.22833727 |
| Zbtb37 | -0.4950705 | 2.91738233 | 2.41565282 | 0.1358805 | 0.22833727 |
| Olfr78 | 1.33962246 | -0.7827399 | 2.41537101 | 0.13590208 | 0.22833727 |
| Stxbp5l| 0.44724006 | 8.44935517 | 2.41409525 | 0.13599981 | 0.22846229 |
| 1110001J03F | -0.4805717 | 2.66001857 | 2.41375907 | 0.13602557 | 0.22846639 |
| Spdl1  | -1.2545532 | -0.1312964 | 2.4126602 | 0.13610984 | 0.22856873 |
| Ift140 | 0.52347223 | 3.26109083 | 2.41060739 | 0.13626742 | 0.22879413 |
| Sh2d1b1| 1.28972484 | 0.8331285 | 2.40892899 | 0.13639643 | 0.22894047 |
| C330018D20 | -0.3055761 | 3.75577288 | 2.40886536 | 0.13640132 | 0.22894047 |
| Mlh1   | 0.36804002 | 3.81828075 | 2.40793276 | 0.13647307 | 0.22902165 |
| Hecw1  | 0.45034036 | 6.93926334 | 2.40646027 | 0.13658644 | 0.22917265 |
| Tmcc3  | -0.236749 | 6.34903671 | 2.40517274 | 0.13668567 | 0.22919568 |
| Gnb2   | 0.34757067 | 3.61938385 | 2.40492749 | 0.13670458 | 0.22919568 |
| Gm19757| 0.43657936 | 4.53340146 | 2.40485701 | 0.13671002 | 0.22919568 |
| Dclk2  | 0.33871411 | 4.01234502 | 2.40482414 | 0.13671255 | 0.22919568 |
| Ccdc136| -0.2471596 | 5.29502051 | 2.40476436 | 0.13671716 | 0.22919568 |
| 1700071M16 | 1.29527238 | 0.65191251 | 2.40416162 | 0.13676365 | 0.22923439 |
| Slc24a2 | 0.28745395 | 9.66939093 | 2.40358569 | 0.1368081 | 0.22923587 |
| Tbl1x  | -0.1621898 | 6.44132166 | 2.40282166 | 0.13686708 | 0.22923587 |
| Mcf2   | 0.53192052 | 3.13970048 | 2.40219068 | 0.13691582 | 0.22923587 |
| Gene       | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1700110K17| -0.8570878 | 0.8249802 | 2.40202537 | 0.13692859 | 0.22923587 |
| Gm10012    | -0.2833674 | 3.8279026 | 2.40177833 | 0.13694768 | 0.22923587 |
| Spire2     | 0.38651172 | 2.52442626 | 2.40167925 | 0.13695534 | 0.22923587 |
| Rapgef5    | 0.19708937 | 6.3808839 | 2.40157362 | 0.1369635 | 0.22923587 |
| Rdh13      | 0.2996964 | 3.81621794 | 2.40090264 | 0.13701537 | 0.22923587 |
| DBErdt738e | -0.5143691 | 3.18612086 | 2.40068492 | 0.13703221 | 0.22923587 |
| 9330159M07 | -0.4576888 | 2.13112621 | 2.40043 | 0.13705193 | 0.22923587 |
| Atp6voa2   | 0.26502226 | 5.13639764 | 2.40003446 | 0.13708253 | 0.22923587 |
| Eif3d      | 0.25938116 | 4.54766849 | 2.40002876 | 0.13708297 | 0.22923587 |
| Rit1       | -0.3083358 | 4.74407317 | 2.39991554 | 0.13709173 | 0.22923587 |
| Ccr2       | -0.5498884 | 2.65618563 | 2.39939169 | 0.13713227 | 0.22923587 |
| Pbl2d      | -0.8951168 | 0.65689591 | 2.3993347 | 0.13713668 | 0.22923587 |
| Pdp2       | -0.4411632 | 3.55228606 | 2.39930493 | 0.13713898 | 0.22923587 |
| Hsdc17b10  | -0.2935627 | 4.46645797 | 2.3984015 | 0.13720894 | 0.22926345 |
| Snrpc      | -0.4251023 | 3.22601681 | 2.398169 | 0.13722695 | 0.22926345 |
| Dhrs7b     | 0.5555845 | 2.4063999 | 2.39795719 | 0.13724336 | 0.22926345 |
| Ercc5      | 0.23462258 | 5.02331105 | 2.39788303 | 0.1372491 | 0.22926345 |
| 9930104L06f| -0.4383731 | 3.10313452 | 2.39719387 | 0.13730251 | 0.22931356 |
| B230217C12 | -0.1833822 | 5.85173644 | 2.39476247 | 0.13749115 | 0.2295729 |
| Gpr137     | 0.38020267 | 3.18893614 | 2.39457491 | 0.13750571 | 0.2295729 |
| Hdac10     | -0.5440966 | 1.601888 | 2.39428661 | 0.1375281 | 0.2295729 |
| Ccdc34os   | 2.22501987 | -1.6641624 | 2.39363496 | 0.13757873 | 0.22961828 |
| Acbd6      | -0.272577 | 4.71462232 | 2.39223967 | 0.1376872 | 0.22976017 |
| Med7       | -0.3163294 | 4.81836147 | 2.39139969 | 0.13777525 | 0.22980829 |
| Etfb       | -0.3748702 | 4.37938077 | 2.39126596 | 0.13776296 | 0.22980829 |
| Gtpbp3     | -0.3400388 | 3.02973878 | 2.3896528 | 0.13788858 | 0.22997868 |
| Mau2       | 0.24762017 | 5.4300466 | 2.38829266 | 0.13799461 | 0.230103 |
| Ndr1       | -0.3524132 | 7.57194374 | 2.38809397 | 0.1380101 | 0.230103 |
| Fam43a     | -0.3253491 | 6.20468166 | 2.38739846 | 0.13806436 | 0.2301543 |
| Scx        | -1.0157708 | -0.094432 | 2.38685013 | 0.13810716 | 0.23018018 |
| Them4      | -0.3416776 | 4.2544018 | 2.38641913 | 0.13814081 | 0.23018018 |
| Myzaph     | -0.4849541 | 4.17181973 | 2.38629647 | 0.13815039 | 0.23018018 |
| Zfp408     | -0.2462751 | 4.68741714 | 2.38591598 | 0.13818011 | 0.23019054 |
| Mrh8       | 1.16642052 | -1.0031828 | 2.38542838 | 0.1382182 | 0.23021485 |
| Fzd9       | -1.4303989 | -0.7379368 | 2.38485985 | 0.13826264 | 0.23024971 |
| Gdf11      | 0.74233424 | 1.80607405 | 2.38438055 | 0.13830011 | 0.23027296 |
| Mzt2       | -0.4043618 | 2.97104028 | 2.3837806 | 0.13834703 | 0.23027452 |
| Ar13       | -0.2979506 | 5.64605501 | 2.3837674 | 0.13834806 | 0.23027452 |
| Phlpp2     | 0.30392879 | 5.35627201 | 2.38339611 | 0.13837711 | 0.23028374 |
| Cep290     | 0.23474116 | 7.10751982 | 2.38211244 | 0.1384776 | 0.23041009 |
| Cd300d     | -1.3994923 | 0.25936695 | 2.38172557 | 0.1385079 | 0.23041009 |
| Usp12      | -0.1877895 | 5.81733712 | 2.38144386 | 0.13852997 | 0.23041009 |
| Ttl7       | 0.2378936 | 7.62182125 | 2.38122495 | 0.13854712 | 0.23041009 |
| Gene   | 1190007I07R | Gm20362 | Slc19a1 | Cacna1h | Cnn2 | Sh3rf3 | Chrb2 | Gm20750 | Pole4 | Glt8d2 | Fam129a | Cox18 | Zcchc24 | Hagh | Gpr125 | Zfp361 | Gadd45g | Prox1 | Sult6b1 | Neurl3 | Slc10a3 | Ceacam2 | Dph7 | Slc35a5 | Slc30a6 | Tulip1 | Six5 | Thap4 | Car5a | Samd15 | Abbt2 | Nxpe3 | 1500012F01I | Npm1 | Egfr | Dgkq | Dnali1 | 5730559C18I | Cdp1 | Pum2 | Psmd13 | Ltf | Sar1b |
|--------|-------------|---------|---------|---------|-------|--------|--------|---------|-------|--------|---------|-------|---------|-------|--------|--------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|
|        | 0.53224386  | 0.84701545 | 0.41276968 | 0.43947181 | -0.4652261 | 0.31166355 | 0.2887568 | 1.80454613 | -0.2612915 | 0.32849912 | -0.39333283 | 0.40007867 | -0.3436843 | -0.3040558 | 0.42157109 | -0.2755739 | -0.4634285 | -0.2685953 | -0.7778238 | -0.8339819 | -0.5188741 | 0.5401317 | 0.30314512 | 0.24687478 | -0.3505055 | 0.24039626 | -0.5688166 | 0.31378435 | 1.04944046 | 0.55369844 | -0.5343157 | 0.42163623 | 0.32151786 | -0.1806065 | 0.31625481 | 0.50818774 | -0.9547141 | 1.98715549 | -0.1767699 | 0.16493105 | -0.3238387 | -0.9412812 | -0.2189382 |
|        | 2.18462635  | 0.71752703 | 3.08317596 | 3.2704708 | 6.26796327 | 5.61462486 | 3.9374046 | 2.37504547 | 5.26961281 | 3.02758039 | 3.7238136 | 2.90177609 | 7.2701703 | 4.0177537 | 3.35494586 | 7.72852485 | 2.06850127 | 4.8871507 | 0.88888743 | 1.02709041 | 2.47682987 | 1.35594275 | 5.44790196 | 3.08987767 | -1.9917509 | 3.2592734 | 4.20500576 | 1.35594275 | -0.2991194 | 2.35494586 | 2.54631764 | 3.07121254 | 2.41731152 | 2.43301757 | 9.66262949 | 5.96327822 | 3.8686968 | 0.12482844 | 0.39736511 | 6.7745802 | 8.19361958 | 3.96068932 | 0.23885672 | 5.62421325 | 2.35544976 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|--------|---------|---------|---------|---------|---------|---------|
| Cdad1  | 0.18961176 | 6.00419115 | 2.35515543 | 0.14060821 | 0.2320869 |
| Clint1 | -0.1688097 | 6.88746452 | 2.35495951 | 0.14062384 | 0.2320869 |
| Pou5f2 | 1.24949324 | -0.1208998 | 2.35469041 | 0.14064531 | 0.2320869 |
| AA415398 | -0.4652311 | 2.98746953 | 2.35438239 | 0.14066989 | 0.23208837 |
| S1c2a8 | 0.57099576 | 1.62197619 | 2.35347784 | 0.1407421 | 0.2321411 |
| Hspd1  | -0.1469636 | 8.27695858 | 2.35335716 | 0.14075174 | 0.2321411 |
| Zfp207  | 0.16807802 | 7.90237065 | 2.35309162 | 0.14077295 | 0.2321411 |
| Mmp16  | 0.28866484 | 5.36699332 | 2.35169464 | 0.14088459 | 0.23226748 |
| Sre1   | -0.4083233 | 2.66854513 | 2.35130614 | 0.14091565 | 0.23226748 |
| Gda    | 0.31016546 | 7.16852614 | 2.35124276 | 0.14092072 | 0.23226748 |
| Vps8   | 0.42358645 | 4.47332854 | 2.35029455 | 0.14099658 | 0.23235424 |
| Zmym1  | 0.38341297 | 3.92520281 | 2.34967714 | 0.14104601 | 0.23239576 |
| Btbd17 | 0.82106014 | 0.43753418 | 2.34893939 | 0.14110509 | 0.23245401 |
| Itga5  | 0.38353732 | 2.85314034 | 2.34831214 | 0.14115534 | 0.23249277 |
| Ksr2   | 0.29693882 | 6.06554444 | 2.34681759 | 0.14127517 | 0.23264813 |
| D730045A05 | 1.37107485 | -0.3651192 | 2.34658073 | 0.14129418 | 0.23264813 |
| Gm1069 | 0.68235701 | 0.87244405 | 2.34618136 | 0.14132622 | 0.23265242 |
| Itf10m | 1.06253072 | 0.45607829 | 2.34553368 | 0.14137822 | 0.23265242 |
| Dapl1  | -0.3457703 | 5.38142757 | 2.34543777 | 0.14138592 | 0.23265242 |
| Kdm18  | 0.71320266 | 1.41305886 | 2.34536468 | 0.14139178 | 0.23265242 |
| Dlgap5 | 0.7161867 | 0.66188119 | 2.34327958 | 0.14155934 | 0.23283484 |
| Gm20324 | -1.267011 | -0.5352857 | 2.34327097 | 0.14156003 | 0.23283484 |
| Gm3230 | -0.6788162 | 1.29743143 | 2.34309772 | 0.14157396 | 0.23283484 |
| Nim1k  | -0.3376697 | 4.19746749 | 2.34245468 | 0.14162569 | 0.23285879 |
| Ergic1 | -0.2008796 | 6.53841747 | 2.34232571 | 0.14163607 | 0.23285879 |
| Chkb   | 0.52079849 | 1.33850918 | 2.34154521 | 0.14169889 | 0.2328842 |
| Gmeb2  | 0.4074855 | 2.96301519 | 2.34154292 | 0.14169907 | 0.2328842 |
| Kdm1b  | -0.3031637 | 4.2157133 | 2.34077843 | 0.14176064 | 0.2329463 |
| Sgk2   | 1.05604365 | -0.36339 | 2.3401264 | 0.14181317 | 0.23296085 |
| Serpinb6a | -0.3898287 | 5.68020965 | 2.33978839 | 0.14184041 | 0.23296085 |
| Tm4sf20 | 1.67500356 | -1.3584128 | 2.37443373 | 0.14184084 | 0.23296085 |
| Nif3l1 | 0.3595354 | 3.38042311 | 2.33921335 | 0.14186767 | 0.2329874 |
| Ppm1b  | -0.1598346 | 8.14640098 | 2.3387925 | 0.14192072 | 0.2329874 |
| Gzf1   | 0.22559237 | 5.15141052 | 2.33869765 | 0.14192837 | 0.2329874 |
| Plaur  | -1.6314825 | -1.2438699 | 2.33650155 | 0.14210565 | 0.23239394 |
| Nadk2  | -0.2514048 | 4.75716011 | 2.3361156 | 0.14213684 | 0.23235144 |
| Optc   | -1.626026 | -1.6157922 | 2.33539685 | 0.14219493 | 0.23330796 |
| Cmtm5  | -0.5279561 | 2.42396211 | 2.33329287 | 0.14236516 | 0.23350515 |
| Vstm5  | -0.5217273 | 2.30334241 | 2.33307652 | 0.14238268 | 0.23350515 |
| Sap30  | -0.427654 | 3.11921207 | 2.33302571 | 0.14238679 | 0.23350515 |
| Ppi2   | 0.2510215 | 4.47776369 | 2.33213103 | 0.14245926 | 0.23358436 |
| 1500011B03 | -0.2754804 | 5.03776438 | 2.33174376 | 0.14249065 | 0.23358436 |
| Map3k7 | 0.16558491 | 6.60263861 | 2.33154657 | 0.14250663 | 0.23358436 |
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Sdha    | 0.1730305 | 8.6038196 | 2.33091195 | 0.14255809 | 0.23362961 |
| Dgkg    | 0.34720307 | 6.62842365 | 2.33020421 | 0.1426155 | 0.23366873 |
| Fra10ac1 | 0.24449742 | 4.40983291 | 2.3302951 | 0.14262967 | 0.23366873 |
| Diras1  | -0.3019087 | 5.13546591 | 2.3284557 | 0.14275745 | 0.23380405 |
| Nudt15  | -0.5496058 | 1.94917808 | 2.32842424 | 0.14276 | 0.23380405 |
| Stk19   | -0.5798624 | 2.00526309 | 2.32700789 | 0.14287512 | 0.23395346 |
| Gdf3    | 1.12376158 | -0.750508 | 2.32607581 | 0.14295093 | 0.23400675 |
| S100a1  | -0.4677158 | 4.83217325 | 2.32596039 | 0.14296033 | 0.23400675 |
| Nhhl1   | -1.3173294 | -0.2689233 | 2.32572679 | 0.14297934 | 0.23400675 |
| Exosc3  | -0.2981562 | 4.95860279 | 2.32528143 | 0.14301559 | 0.23402698 |
| Ccdc12  | -0.3600002 | 3.63393538 | 2.32487354 | 0.1430488 | 0.23404223 |
| F8a     | -0.2965909 | 3.41659898 | 2.32397569 | 0.14312194 | 0.23406821 |
| Vps4b   | 0.21411544 | 5.43696052 | 2.32387324 | 0.14313322 | 0.23406821 |
| A930013F10 | 0.78487908 | 7.17661462 | 2.32379866 | 0.14313636 | 0.23406821 |
| Sem3e   | 0.60761664 | 4.19611162 | 2.32331267 | 0.14317597 | 0.2340939 |
| Atpla3a | 0.60754487 | 2.28564418 | 2.32249004 | 0.14324966 | 0.23416811 |
| Hmcn1   | 0.33429329 | 3.75683083 | 2.32216988 | 0.14326917 | 0.23416811 |
| Pcdha10 | 0.26364178 | 3.54483059 | 2.32148832 | 0.14332479 | 0.23421993 |
| Nsg1    | -0.2515648 | 5.26403443 | 2.31987251 | 0.14345675 | 0.23434788 |
| Acp1    | -0.2050788 | 7.14215661 | 2.3194409 | 0.14349202 | 0.23434788 |
| Atrx    | 0.24655755 | 9.86601145 | 2.31943839 | 0.14349223 | 0.23434788 |
| Ndufs1  | 0.25337919 | 6.10567345 | 2.31935821 | 0.14349878 | 0.23434788 |
| Txn1    | -0.3020556 | 6.41714117 | 2.31869069 | 0.14355336 | 0.23439793 |
| Pik3ip1 | 0.4175462 | 4.0136335 | 2.31764153 | 0.14363919 | 0.23449898 |
| Agap3   | -0.2013485 | 5.85847907 | 2.31702978 | 0.14368926 | 0.23451464 |
| Mansc1  | 0.33679584 | 4.31736911 | 2.31566484 | 0.14380107 | 0.23468503 |
| Casq1   | 1.35484208 | 0.15794126 | 2.3128281 | 0.14403376 | 0.23499123 |
| Nr1d2   | -0.1988037 | 7.42943897 | 2.31620183 | 0.14405234 | 0.23499123 |
| 2610203C22I | 1.07887248 | 0.00997097 | 2.31238209 | 0.14407039 | 0.23499123 |
| Gm5105  | 1.55606171 | -0.6224718 | 2.31198512 | 0.144103 | 0.23499123 |
| Prkag3  | 0.71269949 | 1.82360284 | 2.31191649 | 0.14410864 | 0.23499123 |
| BC006965 | -0.655872 | 1.79044994 | 2.31087988 | 0.14419383 | 0.23509102 |
| Htatip2 | -0.5558255 | 2.04140005 | 2.31006394 | 0.14426094 | 0.23516128 |
| Krr1    | -0.1661292 | 6.82468627 | 2.30930288 | 0.14432356 | 0.23518867 |
| Hook2   | -0.7054457 | 1.55443116 | 2.30923831 | 0.14432888 | 0.23518867 |
| Arl5a   | -0.2009637 | 6.9303259 | 2.30898452 | 0.14434977 | 0.23518867 |
| Car3    | -0.9240863 | 1.3697851 | 2.30821162 | 0.14441342 | 0.23521961 |
| Ppap2c  | -0.6184939 | 1.53986906 | 2.30817072 | 0.14441679 | 0.23521961 |
| Osr1    | -0.5134626 | 6.37133727 | 2.30704955 | 0.14450917 | 0.23533096 |
| Mcl1    | -0.2286213 | 8.67175862 | 2.3062654 | 0.14457383 | 0.23539712 |
| Pbx3    | -0.3484952 | 7.274062 | 2.30576667 | 0.14461498 | 0.2354129 |
| Ccdc24  | -1.822232 | -0.9110974 | 2.30547117 | 0.14463936 | 0.2354129 |
| Cln3    | 0.45152668 | 2.55672215 | 2.30520446 | 0.14466137 | 0.2354129 |
| Gene   | 0.35308935 | 2.9998954 | 2.30498289 | 0.14467966 | 0.2354129 |
|--------|------------|-----------|-------------|-------------|------------|
| 4932438H23 | 1.15656779 | -0.1891643 | 2.3042168 | 0.14474292 | 0.23547672 |
| Pgly   | 0.70105538 | 1.09311284 | 2.30293141 | 0.14484914 | 0.23559919 |
| Zfp583 | 0.52413137 | 3.39265592 | 2.30272371 | 0.14486631 | 0.23559919 |
| Mast3  | -0.2326094 | 7.30129697 | 2.30203894 | 0.14492294 | 0.23563626 |
| P2ry10 | -2.1014992 | -1.3492971 | 2.30163979 | 0.14495596 | 0.23563626 |
| Cckbr  | 0.28167926 | 4.6516168 | 2.30157566 | 0.14496127 | 0.23563626 |
| N4bp1  | -0.1798111 | 7.19119929 | 2.30027716 | 0.14506876 | 0.23577187 |
| Lin37  | -0.264457 | 4.4352741 | 2.29909315 | 0.14516686 | 0.23589217 |
| Yap1   | -0.2572989 | 5.91019961 | 2.29854799 | 0.14521206 | 0.23592647 |
| Chac2  | 0.36001181 | 3.90892416 | 2.29759281 | 0.14529129 | 0.23601605 |
| Fb xo44 | -0.2871271 | 4.46392844 | 2.29708435 | 0.14533348 | 0.23604544 |
| Zfp52  | 0.27336407 | 4.08566603 | 2.29622577 | 0.14540477 | 0.23611807 |
| Gpalpp1 | -0.2192649 | 5.76288545 | 2.29579163 | 0.14544083 | 0.23611807 |
| Tas1r1 | -1.5013308 | -0.3951764 | 2.2956751 | 0.14545051 | 0.23611807 |
| Atad1  | 0.18427157 | 7.21366824 | 2.29493837 | 0.14551174 | 0.23615408 |
| Ptx   | 0.22914938 | 5.46625676 | 2.294828 | 0.14552091 | 0.23615408 |
| Ttp a | -0.2550138 | 5.12525269 | 2.2938549 | 0.14560183 | 0.23624626 |
| Rpl9   | -0.2823393 | 7.1941389 | 2.29321539 | 0.14565504 | 0.23629346 |
| Kbt bd2 | 0.18726734 | 5.97260635 | 2.29271501 | 0.14569669 | 0.23632189 |
| Nptn   | 0.20529039 | 8.10613287 | 2.29216847 | 0.1457422 | 0.23635387 |
| Dn ajb2 | -0.2678137 | 5.41496715 | 2.29168303 | 0.14578264 | 0.23635387 |
| B930059L031 | -1.8717306 | -1.1958104 | 2.29160907 | 0.1457888 | 0.23635387 |
| Plekh a1 | -0.1893171 | 6.73437233 | 2.29111257 | 0.14583018 | 0.23638182 |
| Lmr br1l | 0.72061957 | 0.32699274 | 2.2907028 | 0.14586433 | 0.23638487 |
| Elk3   | -0.25497 | 4.99464242 | 2.29051106 | 0.14588032 | 0.23638487 |
| As b6  | -0.3835838 | 2.52934525 | 2.28919396 | 0.14599019 | 0.23646872 |
| Fcgr2b | 1.24210897 | 0.11290006 | 2.28892506 | 0.14601263 | 0.23646872 |
| Ackr1  | 0.32954898 | 5.69606705 | 2.28866392 | 0.14603443 | 0.23646872 |
| Nes pas | -2.4143367 | -1.9246916 | 2.2886222 | 0.14603791 | 0.23646872 |
| Lrrtm2 | 0.2599381 | 6.66013688 | 2.28844426 | 0.14605277 | 0.23646872 |
| Pno1   | -0.2470954 | 3.98519961 | 2.28773415 | 0.14611208 | 0.23652565 |
| Pycr1  | -0.3733265 | 2.65084745 | 2.28714254 | 0.14616151 | 0.23656657 |
| Hivep1 | 0.22034389 | 7.4051704 | 2.28622807 | 0.14623796 | 0.23660909 |
| Mx2    | 0.99938744 | 0.06366285 | 2.2859808 | 0.14625864 | 0.23660909 |
| Camk2d | 0.20555297 | 7.31796937 | 2.28596158 | 0.14626025 | 0.23660909 |
| Smpd3  | 0.25821229 | 4.76558049 | 2.28462658 | 0.14637196 | 0.23671333 |
| Hfe    | 0.60325314 | 3.40174727 | 2.28461397 | 0.14637302 | 0.23671333 |
| Ezh2   | 0.44751518 | 3.03078086 | 2.28421128 | 0.14640673 | 0.23672878 |
| Ppm1k  | 0.23904722 | 6.66579069 | 2.28365819 | 0.14645306 | 0.2367646 |
| Ppp3cb | -0.168863 | 8.6527714 | 2.28092969 | 0.14668185 | 0.23707317 |
| Gm10033 | 0.38502247 | 4.59439636 | 2.28075416 | 0.14669659 | 0.23707317 |
| 4930426L09f | -0.7655921 | 0.84824692 | 2.28051647 | 0.14671654 | 0.23707317 |
| Gene       | Mag       | Med13      | Chrdl1     | Tsr3      | Wnk4      | Nbn       | Cyba       | B830017H08 | Fam32a    | Tnrc6c    | Hadh      | Zic4      | Cep152    | Vamp1     | Rit2       | Susd1     | Zfp879    | Trim16    | Slc9a3r2   | Ube2c     | 1700109K24I | Zfp282    | 4933427D14 | Mboat7    | Gm7854    | Klhl22    | Smc3      | Usp13     | Wrdr43    | Galnt15   | Wdr35     | Rpl5      | Pyurf     | Cryab     | Arg1      | Zfp191    | Wnt3      | Golgb1    | Arhgap27  | Dprr1     | Ctnnap2   | Gm6682    | Dock2     |
|------------|-----------|------------|------------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|------------|-----------|-----------|-----------|------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|            | 0.41424981| 0.1769352  | 0.43042166 | -0.2700696| -0.4559082| -0.2309753| -0.8310464 | -1.0465083 | -0.2419554| 0.21219374| 0.3146993 | -0.3410733 | 0.60584764 | -0.1977757| -0.1926263 | 0.61511303| -0.5859954| 0.46628642| -0.378108  | 0.79953309 | 1.06159811  | 0.5651127 | 0.45047043 | 0.22611931 | 1.19684958 | 0.2448059 | 0.2143653 | 0.43358346| -0.2392765 | -0.8278242 | 0.29808631 | -0.2623758 | -0.3375929 | -0.3522821 | 1.58984482| -0.2786446 | 1.25024177| 0.19291275 | -0.4006499 | -1.6924173 |
|            | 2.55410134| 9.08293275 | 2.68327976 | 4.06406222 | 4.36271897 | 9.08293275 | 6.9612226  | 2.72605446 | 6.0705098  | 9.08293275 | 1.90334626| 2.11439961 | 1.78541853 | 6.0370303  | 6.72674347 | 8.04873822 | 1.90740085| 2.64917315| 5.1076259  | 0.65337984 | 1.00334626  | 1.90740085| 4.10754685 | 5.19985747 | 0.00976066 | 5.05935465| 8.16643801| 3.87018205 | 4.90443713 | 1.00556472 | 4.69647187 | 8.2506935  | 5.11563781 | 7.16970998 | 0.9245313 | 5.01105649 | 7.98617775 | 3.24383541 | 6.25693825 | 0.23020543 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ubxn11| -0.952839 | 1.41000936 | 2.25589988 | 0.14880094 | 0.23857568 |
| Snx3  | -0.2029918 | 6.82295888 | 2.2558357 | 0.14880642 | 0.23857568 |
| Gm16897| -0.7653373 | 0.57425721 | 2.25577296 | 0.14881178 | 0.23857568 |
| Akbh6 | -0.386938 | 3.12318257 | 2.25565526 | 0.14882183 | 0.23857568 |
| Steap3| -0.3993804 | 4.09819426 | 2.25563619 | 0.14882346 | 0.23857568 |
| Skap1 | -1.0087216 | -0.0607999 | 2.25544446 | 0.14883984 | 0.23857568 |
| Scd4  | 0.99223485 | -0.175425 | 2.25384371 | 0.14897666 | 0.23875592 |
| Maats1| -1.1099583 | 0.57079124 | 2.25297186 | 0.14905124 | 0.23883638 |
| Smr3a | -1.6339034 | -0.5832651 | 2.25215077 | 0.14912152 | 0.23890991 |
| Ehd3  | -0.191598 | 7.70821092 | 2.25111347 | 0.14921037 | 0.23901316 |
| Rarr2 | 1.25015117 | 0.59490737 | 2.25068466 | 0.14924712 | 0.23903293 |
| Fnbp1l| 0.23236786 | 8.5932555 | 2.2491684 | 0.14937714 | 0.23917709 |
| Sap18 | -0.2822777 | 6.70105069 | 2.24906563 | 0.14938596 | 0.23917709 |
| Park7 | -0.3054143 | 4.76409095 | 2.24826825 | 0.14945439 | 0.23924756 |
| Cryba2| -1.818085 | -1.2182359 | 2.2475074 | 0.14951973 | 0.23929435 |
| Hint3 | 0.28665905 | 4.30640939 | 2.24735896 | 0.14953248 | 0.23929435 |
| Gm5577| 1.26340111 | 1.02627357 | 2.24456084 | 0.14977309 | 0.23964024 |
| Cacna1d| 0.40046366 | 5.10948348 | 2.24288981 | 0.1499117 | 0.23983133 |
| Atp10a| 0.35633414 | 3.72381248 | 2.24156947 | 0.15003083 | 0.23995835 |
| Hhipl1| -1.6345839 | -1.2036781 | 2.24140063 | 0.1500454 | 0.23995835 |
| Lpgat1| 0.21059066 | 7.83784343 | 2.24010386 | 0.15015731 | 0.24002361 |
| Trp53 | -0.2866866 | 5.99533336 | 2.23984976 | 0.15017925 | 0.24002361 |
| Bckdha| -0.5259955 | 1.13284598 | 2.23980145 | 0.15018342 | 0.24002361 |
| Cardk | -0.2966914 | 3.50228562 | 2.23979219 | 0.15018422 | 0.24002361 |
| Slc10a4| 0.3349429 | 4.88980651 | 2.23922917 | 0.15023285 | 0.2400523 |
| Fam132a| -0.5108908 | 1.84484177 | 2.23900341 | 0.15025236 | 0.2400523 |
| Asb3  | 0.31069466 | 4.02289855 | 2.23854993 | 0.15029155 | 0.2400523 |
| Trim12c| -0.3248305 | 5.55706008 | 2.23844981 | 0.1503002 | 0.2400523 |
| Slc38a7| 0.40821856 | 2.39339797 | 2.23724625 | 0.15040428 | 0.24017937 |
| Eif4g3| 0.22123748 | 8.94854397 | 2.23694363 | 0.15043046 | 0.24018203 |
| Cisd3 | -0.4230799 | 2.82960951 | 2.2357746 | 0.15053166 | 0.24030443 |
| Fbxw9 | -0.5692547 | 2.04056221 | 2.23515075 | 0.1505857 | 0.24035152 |
| Ncor1 | 0.23560383 | 9.19656886 | 2.23452223 | 0.15064016 | 0.24039928 |
| Morn1 | 0.90195163 | 0.458594 | 2.23275815 | 0.15079316 | 0.24060424 |
| Nceh1 | 0.19021354 | 6.21461893 | 2.23136897 | 0.15091378 | 0.24074708 |
| Rpl21 | -0.2989234 | 7.82122317 | 2.23116106 | 0.15093184 | 0.24074708 |
| Mapk8ip3| 0.30342441 | 6.77528462 | 2.23028126 | 0.1510083 | 0.24075772 |
| Eif2b2 | -0.3509454 | 4.10672235 | 2.230041 | 0.15102918 | 0.24075772 |
| Acnat1| 1.01821217 | 0.1652493 | 2.23002923 | 0.15103021 | 0.24075772 |
| Imppl1| -0.2326234 | 5.4472159 | 2.22995317 | 0.15103682 | 0.24075772 |
| Ccnd3 | -0.5654708 | 4.56294001 | 2.22908541 | 0.1511123 | 0.24083884 |
| Mafk  | 0.48720863 | 3.20017283 | 2.22790728 | 0.15121484 | 0.24096307 |
| Gm11974| -0.7654379 | 0.35866908 | 2.22710573 | 0.15128466 | 0.24098984 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cxxc1  | -0.2044981 | 5.98700297 | 2.22693316 | 0.15129969 | 0.24098984 |
| Apol7d | -2.282503   | -1.7446552 | 2.22686705 | 0.15130545 | 0.24098984 |
| 3110082J24F | 1.25069582 | -0.6274529 | 2.22649366 | 0.151338 | 0.24100249 |
| Mecom  | -0.6360458  | 1.69182666 | 2.22483708 | 0.15148247 | 0.24119335 |
| Bend4  | -0.2895824  | 4.40579276 | 2.22416572 | 0.15154107 | 0.24122532 |
| Pnn    | 0.2536408   | 7.701744   | 2.22390598 | 0.15156374 | 0.24122532 |
| Ttyh2  | 0.4419453   | 2.6258952  | 2.22351908 | 0.15159753 | 0.24122532 |
| Ppp1r2-ps3 | 0.9427406  | -0.4670166 | 2.22347877 | 0.15160105 | 0.24122532 |
| Ankrd9 | -0.8127465  | 0.40616197 | 2.2227236 | 0.15166703 | 0.2412911 |
| Pak3   | 0.26997854  | 7.31845417 | 2.22061277 | 0.15185164 | 0.2415409 |
| Wipf1  | -0.3435149  | 6.02779989 | 2.22021069 | 0.15188683 | 0.2415409 |
| Scaf11 | 0.14530875  | 7.60854134 | 2.22008285 | 0.15189802 | 0.2415409 |
| Gm973  | 0.43533849  | 2.46480324 | 2.1875955 | 0.15201393 | 0.24168047 |
| Golga2 | -0.2176602  | 5.49769387 | 2.21832221 | 0.15205527 | 0.24168047 |
| Dok1   | -1.1757873  | -0.2343909 | 2.18236308 | 0.15205982 | 0.24168047 |
| Ints4  | 0.20906756  | 5.51097562 | 2.21793307 | 0.15208638 | 0.24168348 |
| Itga4  | 0.32077219  | 4.8409161 | 2.21692234 | 0.15217504 | 0.24172736 |
| Fam188a | -0.2294931 | 6.11642959 | 2.21690667 | 0.15217641 | 0.24172736 |
| Tmprss7| -0.8973794  | 0.42829116 | 2.21639399 | 0.15222141 | 0.24172736 |
| Serf2  | -0.3525928  | 6.41739383 | 2.2162062 | 0.15223789 | 0.24172736 |
| Mknk1  | -0.2684331  | 4.31864868 | 2.21600969 | 0.15225514 | 0.24172736 |
| Chd2   | 0.20084798  | 6.94922404 | 2.21562021 | 0.15228935 | 0.24172736 |
| Cx3cr1 | -0.4017857  | 3.35088241 | 2.21539884 | 0.15230879 | 0.24172736 |
| 5031414D18 | 1.44878601 | -1.0537703 | 2.21536895 | 0.15231141 | 0.24172736 |
| Snx29  | 0.48590432  | 2.1760274 | 2.21226389 | 0.15258446 | 0.2420942 |
| Doc2a  | -0.4329168  | 2.81656322 | 2.21209864 | 0.15259901 | 0.2420942 |
| Ercc6l2 | 0.21986294 | 5.12584143 | 2.21189768 | 0.1526167 | 0.2420942 |
| Ddb1   | 0.20771636  | 6.36962205 | 2.21075179 | 0.15271764 | 0.24213357 |
| Tm9sf4 | 0.2546887   | 4.70297856 | 2.21058975 | 0.15273192 | 0.24213357 |
| Mrps14 | -0.2626865  | 5.65995833 | 2.21056602 | 0.15273402 | 0.24213357 |
| Zyg11b | 0.24549631  | 8.98696616 | 2.21049354 | 0.1527404 | 0.24213357 |
| Clspn  | 1.0902853   | -0.1388371 | 2.20927116 | 0.15284819 | 0.24222702 |
| Adamts16 | 0.932898  | 0.94222066 | 2.20926416 | 0.15284881 | 0.24222702 |
| Zdhhc12 | -0.8753092 | 0.66138768 | 2.20880043 | 0.15288972 | 0.24225267 |
| Mecom  | -0.7871063  | 1.34295964 | 2.20791824 | 0.1529676 | 0.24233688 |
| Trim26 | -0.2585961  | 4.99294878 | 2.20738024 | 0.15301511 | 0.24237293 |
| Extl2  | -0.2209891  | 6.08279579 | 2.20689808 | 0.15305771 | 0.2424012 |
| Prmt2  | -0.33163746 | 5.78853725 | 2.20542737 | 0.15318773 | 0.24256588 |
| Bfsp1  | -0.9157031  | 0.95059007 | 2.20516186 | 0.15321122 | 0.24256588 |
| Snx18  | -0.2059151  | 6.1685314 | 2.20486046 | 0.15323788 | 0.2425689 |
| 4930427A07 | -1.348852 | -0.0174891 | 2.20440433 | 0.15327825 | 0.2425936 |
| Mtss1l | 0.20097909  | 7.05287022 | 2.20401974 | 0.1533123 | 0.24260828 |
| Plk4   | -0.3192234  | 3.65666331 | 2.20279771 | 0.15342054 | 0.24274036 |
| Gene   | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   |
|--------|----------|----------|----------|----------|----------|
| Sel1l3 | 0.38434649 | 4.96079136 | 2.20188684 | 0.15350129 | 0.24279414 |
| Osmr   | 0.4084527  | 3.50329174 | 2.2016659  | 0.15352088 | 0.24279414 |
| Pcm12  | 0.34913027 | 4.8164733  | 2.20157553 | 0.1535289  | 0.24279414 |
| Tctn3  | 0.55185481 | 2.73399384 | 2.20123019 | 0.15355953 | 0.24280338 |
| Fanci  | 0.45630036 | 2.90436969 | 2.20088006 | 0.15359059 | 0.24281331 |
| Tbc1d16| 0.2541157  | 4.73877911 | 2.19949618 | 0.15371345 | 0.24296832 |
| Gna12  | -0.2278153 | 5.26986265 | 2.1984379  | 0.15380748 | 0.24307773 |
| Rps6ka4 | -0.4630822 | 2.71149669 | 2.19735558 | 0.15390372 | 0.24319059 |
| Tmem63c| 0.4158517  | 4.14277226 | 2.19589686 | 0.15403355 | 0.24332566 |
| Dpy19l3| 0.26510234 | 5.02698243 | 2.19583694 | 0.15403889 | 0.24332566 |
| Fmo5   | -0.3352189 | 3.72328381 | 2.19501555 | 0.15411205 | 0.2433321 |
| Mrpl57 | -0.2474791 | 4.6920637 | 2.19500152 | 0.1541133  | 0.2433321 |
| Ankrd32| 0.30308302 | 4.11258224 | 2.1949545  | 0.15411749 | 0.2433321 |
| Pole   | 0.61131332 | 1.08411934 | 2.19336879 | 0.15425886 | 0.243468 |
| Tmprss6| 2.5389368  | -2.147482 | 2.19318732 | 0.15427505 | 0.243468 |
| Lipt1  | -0.5900203 | 1.47774105 | 2.19301529 | 0.1542904  | 0.243468 |
| Hs1bp3 | 0.27440609 | 4.68705527 | 2.19260123 | 0.15432735 | 0.243468 |
| Serping1| -0.4175176 | 7.04095034 | 2.19259573 | 0.15432784 | 0.243468 |
| Slc25a28| -0.2741466 | 3.89324225 | 2.19192417 | 0.15438779 | 0.24351088 |
| Hibadh | -0.2937658 | 5.59095261 | 2.19173438 | 0.15440474 | 0.24351088 |
| Sec61b | -0.3205066 | 4.79413797 | 2.19084768 | 0.15448395 | 0.24359659 |
| Rtn4rl2| 0.67021241 | 0.92144409 | 2.19024461 | 0.15453785 | 0.24363383 |
| Nolc1  | -0.2183251 | 5.18570524 | 2.19002691 | 0.15455732 | 0.24363383 |
| Exosc10| 0.23944441 | 4.86434649 | 2.18967807 | 0.15458851 | 0.2436438 |
| Snx10  | -0.2066643 | 6.49559681 | 2.18785552 | 0.15475161 | 0.2438093 |
| Lck    | -1.0021358 | 0.1777984 | 2.18784064 | 0.15475295 | 0.2438093 |
| Hdac5  | -0.286941  | 5.88492629 | 2.18767041 | 0.15476819 | 0.2438093 |
| Nae1   | 0.23926706 | 5.057229  | 2.1867563 | 0.15485009 | 0.2438908 |
| Tmem175| 0.22981177 | 4.99426847 | 2.18590787 | 0.15492614 | 0.24397921 |
| 2010315B03| -0.2613617 | 4.22427496 | 2.18559378 | 0.15495431 | 0.24397921 |
| Gsta4  | -0.3289463 | 6.83520109 | 2.18491655 | 0.15501507 | 0.24397921 |
| Mrpl38 | -0.3392573 | 3.37361832 | 2.18484231 | 0.15502173 | 0.24397921 |
| Bnc2   | -0.3342944 | 7.67740496 | 2.1847461 | 0.15503036 | 0.24397921 |
| Zzz3   | -0.1742289 | 7.29131947 | 2.18452284 | 0.1550504  | 0.24397921 |
| Kdm3a  | 0.2086004 | 5.9982817 | 2.18390581 | 0.1551058  | 0.24402717 |
| SLC35A2| 0.38761356 | 3.20080837 | 2.18286462 | 0.15519933 | 0.24413511 |
| Allc   | 1.92462297 | -1.1534135 | 2.18181486 | 0.1552937 | 0.24417299 |
| Vps26a | -0.17307  | 7.2527483 | 2.18173677 | 0.15530072 | 0.24417299 |
| Atp5h  | -0.2848068 | 6.99955852 | 2.18157194 | 0.15531554 | 0.24417299 |
| Tdg    | 0.69315547 | 0.31915329 | 2.18148771 | 0.15532312 | 0.24417299 |
| NfATC2ip| 0.39402164 | 2.6767404 | 2.18085837 | 0.15537974 | 0.24422281 |
| Nup43  | 0.47238938 | 2.47967835 | 2.18047419 | 0.15541432 | 0.24423796 |
| Trappc2l| -0.4522582 | 3.37912869 | 2.17952645 | 0.15549966 | 0.24433288 |
| Gene     | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 | Value 15 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| Cyp2j12  | -1.1615054 | -0.5687111 | 2.17909185 | 0.15553881 | 0.2443552 |
| Jam2     | 0.1992657 | 5.78114302 | 2.17815175 | 0.15562354 | 0.2448142 |
| Sos1     | 0.18831049 | 7.58363665 | 2.17794094 | 0.15564255 | 0.2443814 |
| Gm3893   | 0.33297704 | 5.8712045 | 2.17763741 | 0.15566992 | 0.2443814 |
| Nfkbie   | -0.5953752 | 2.13805308 | 2.17754099 | 0.15567862 | 0.2443814 |
| Gsg1     | 0.2284254 | 5.847959 | 2.17719579 | 0.15570976 | 0.2443814 |
| Fgfr1op2 | -0.1856776 | 7.74239464 | 2.17680046 | 0.15574543 | 0.2443814 |
| Uqcc2    | -0.3889836 | 3.50855036 | 2.1764398 | 0.15577798 | 0.2443814 |
| Prepl    | 0.29573364 | 7.5494485 | 2.17621615 | 0.15579818 | 0.2443814 |
| Pvt1     | -0.4803499 | 2.41868138 | 2.17603412 | 0.15581461 | 0.2443814 |
| Bcl7c    | -0.6839965 | 1.35263335 | 2.17523804 | 0.15588651 | 0.2443814 |
| Efcab12  | 0.82564137 | 0.82845375 | 2.175014 | 0.15590676 | 0.2443814 |
| Hyy      | 0.59197645 | 1.56627172 | 2.1749686 | 0.15591086 | 0.2443814 |
| Cilp     | -1.1871449 | -0.1917374 | 2.17494574 | 0.15591292 | 0.2443814 |
| Aldh2    | -0.311476 | 5.30454069 | 2.17476921 | 0.15592888 | 0.2443814 |
| Zfp346   | -0.226633 | 4.78813054 | 2.17475976 | 0.15592973 | 0.2443814 |
| Eif3i    | -0.2064923 | 5.80342661 | 2.17327622 | 0.15606388 | 0.24452294 |
| Lsm10    | -0.4150003 | 2.36384022 | 2.17320905 | 0.15606995 | 0.24452294 |
| Scl26a6  | -1.1533573 | -0.1905844 | 2.17267195 | 0.15611856 | 0.24455997 |
| B430212C06 | 2.14843042 | -1.5430371 | 2.1714401 | 0.1562301 | 0.24467054 |
| Nabh2    | -0.2782612 | 5.88498159 | 2.17134076 | 0.1562391 | 0.24467054 |
| Ywhab    | -0.1519956 | 10.3409979 | 2.17078629 | 0.15628934 | 0.2447101 |
| Dpys3I   | 0.16205116 | 6.30285504 | 2.16909211 | 0.15644297 | 0.2448607 |
| Sec24b   | 0.21242509 | 7.02039347 | 2.16881227 | 0.15646837 | 0.2448607 |
| A530046M1f | 0.80001267 | 0.47076079 | 2.16871734 | 0.15647698 | 0.2448607 |
| Tthy3    | 0.26853099 | 6.04932733 | 2.16862337 | 0.15648551 | 0.2448607 |
| Zfp850   | -0.4219329 | 2.6578176 | 2.16754405 | 0.15658352 | 0.24496417 |
| Lrig1    | 0.33063586 | 3.267394 | 2.16734439 | 0.15660166 | 0.24496417 |
| Gan      | 0.39540949 | 3.39614427 | 2.16696542 | 0.15663609 | 0.24497891 |
| Ctage5   | 0.17906438 | 5.84547173 | 2.16646408 | 0.15668166 | 0.24501105 |
| Synj1    | 0.34949152 | 9.53680777 | 2.165991 | 0.15672467 | 0.2450392 |
| Lbr      | 0.31183649 | 3.4404604 | 2.16498993 | 0.15681573 | 0.24514245 |
| Scand1   | -1.4051946 | -1.4286428 | 2.16299843 | 0.15699709 | 0.24530675 |
| Pold3    | -0.2389401 | 4.88174881 | 2.16286616 | 0.15700914 | 0.24530675 |
| Gm16894  | -0.6145011 | 1.2872279 | 2.16269214 | 0.157025 | 0.24530675 |
| Gm13375  | -0.5060725 | 2.74227121 | 2.16268755 | 0.15702542 | 0.24530675 |
| Tnfrsf19 | 0.23642289 | 5.27041797 | 2.16219028 | 0.15707075 | 0.24530675 |
| Ppp1r3f  | -0.2613289 | 4.33312591 | 2.16210036 | 0.15707895 | 0.24530675 |
| A930005H10 | -0.4295761 | 3.04340925 | 2.16191193 | 0.15709614 | 0.24530675 |
| Tubb4b   | -0.17225 | 7.02528068 | 2.16132136 | 0.15715001 | 0.24532735 |
| Slu7     | -0.2071754 | 5.97942903 | 2.16106374 | 0.15717351 | 0.24532735 |
| Cfrt     | 0.73831035 | 1.59461546 | 2.16094372 | 0.15718446 | 0.24532735 |
| Pef1     | -0.2577292 | 4.4754482 | 2.16034657 | 0.15723897 | 0.24537332 |
| Gene  | Magel2 | Ccb1 | Nt5dc3 | Sco1 | Ahcy | Cct4 | Fam129c | Rps12 | Dpf2 | Lrrc10b | Champ1 | Rp1p0 | Med14 | Trmt13 | Kdm3b | Samd3 | Uckl1os | Slc25a18 | Zranb3 | Ino80dos | Odf2l | Slc15a2 | Cd52 | Ogdh | Abca8b | Spen | Klfl4 | Klkb1 | Syngr3 | Gap43 | Tex10 | Ctsh | Timm21 | Herc4 | Car4 | Ticrr | Plcb1 | Cep250 | Mcts2 | 4833419F23i | Pdxp | Rybp | Ralgapb |
|-------|--------|------|--------|------|------|------|---------|-------|------|---------|--------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|------|-------|------|-------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|       | 1.20861803 | 0.62010229 | 0.25842499 | 0.3423835 | -0.3181328 | -0.1987905 | 1.60037345 | -0.3438621 | -0.1907918 | 0.49664332 | -0.2424551 | -0.2910234 | 0.24976563 | 0.54863243 | 0.15644039 | 0.72559891 | 1.11431696 | 0.43709879 | -0.420507 | 0.47693447 | 0.80465221 | 6.63245504 | 7.67537787 | 1.35786916 | 7.03143235 | 1.32817497 | 0.4792258 | 2.52180671 | 2.7816883 | 2.98122524 | 2.4841312 | 2.49992424 | -0.4792258 | 2.35416589 | -0.4205076 |
|       | 0.39993086 | 1.5529635  | 5.92130142 | 3.29472571 | 3.87366617 | 5.9909585  | -0.3552634 | 6.21202793 | 5.81680931 | 3.93809863 | 4.80465221 | 5.15066035 | 7.6737787 | 1.35786916 | 7.03143235 | 1.32817497 | -0.4792258 | 2.52180671 | 2.7816883 | 3.93809863 | 4.80465221 | 5.15066035 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 | 7.6737787 |
|       | 0.25735094 | 2.15672312 | 2.15616375 | 2.15613726 | 2.15607201 | 2.15585677 | 2.15565031 | 2.15518239 | 2.1533064 | 2.1329432 | 2.15308598 | 2.15066035 | 2.15021933 | 2.14998939 | 2.14992424 | 2.14964131 | 2.14921338 | 2.14904721 | 2.1486404 | 2.14841312 | 2.14803605 | 2.14740735 | 2.14712874 | 2.14679949 | 2.14679489 | 2.14625684 | 2.14625684 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 | 2.14616883 |
|       | 0.15751276 | 0.15757021 | 0.15762142 | 0.15762385 | 0.15762982 | 0.15764953 | 0.15766844 | 0.15771131 | 0.15788333 | 0.15784434 | 0.15790355 | 0.15812634 | 0.15816688 | 0.15818803 | 0.15819402 | 0.15822004 | 0.15825942 | 0.15827471 | 0.15831215 | 0.15833008 | 0.15836788 | 0.15842571 | 0.15845138 | 0.15848215 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 | 0.15852823 |
|       | 0.24576141 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 | 0.24576944 |
| Gene   | Value1  | Value2   | Value3  | Value4  | Value5  | Value6  |
|--------|---------|----------|---------|---------|---------|---------|
| Npsr1  | 0.69443153 | 1.3576542 | 2.1355876 | 0.1595193 | 0.2470903 |
| Polr2e | -0.2870229 | 4.39097372 | 2.13543723 | 0.15953327 | 0.2470903 |
| Prss16 | -1.7788644 | -1.0446287 | 2.13532362 | 0.15954383 | 0.2470903 |
| Zcchc10| -0.3816048 | 3.6333882  | 2.13513758 | 0.15956112 | 0.2470903 |
| Ahcy1  | -0.1852329 | 9.39081939 | 2.13483885 | 0.15958889 | 0.2470903 |
| Spin1  | -0.1444223 | 8.82687423 | 2.13442441 | 0.15962742 | 0.2470903 |
| Ago1   | 0.1551016  | 6.22133921 | 2.13420795 | 0.15964755 | 0.2470903 |
| Fignl1 | 1.29070517 | -0.7257423 | 2.13402643 | 0.15966443 | 0.2470903 |
| 16000002K03 | 0.99907365 | 0.25287878 | 2.13393107 | 0.1596733 | 0.2470903 |
| Map7d2 | -0.2110768 | 7.71414111 | 2.13387544 | 0.15967848 | 0.2470903 |
| Slc10a1| 1.78329068 | -1.138606  | 2.13331917 | 0.15973023 | 0.2470903 |
| Apobec1| 0.38256627 | 3.35042293 | 2.13327629 | 0.15973422 | 0.2470903 |
| Tmem43 | 0.39982323 | 3.88559186 | 2.13308684 | 0.15975185 | 0.2470903 |
| Lsm8   | -0.302942  | 5.66105013 | 2.13265055 | 0.15979247 | 0.2471141 |
| Golga3 | -0.1505489 | 6.79705468 | 2.13125233 | 0.15992271 | 0.24724497 |
| Camk2b | 0.22739605 | 8.06092179 | 2.13120014 | 0.15992757 | 0.24724497 |
| Gpr137b| -0.3287138 | 2.9335845  | 2.13055164 | 0.15998803 | 0.24729939 |
| Fam216b| -0.7223442 | 1.06230103 | 2.12991789 | 0.16004713 | 0.24735172 |
| Tiam1  | 0.24707869 | 6.45558787 | 2.12747885 | 0.16027485 | 0.24766459 |
| Neu3   | 0.34897159 | 3.12335179 | 2.12712089 | 0.16030831 | 0.24767721 |
| Mybl1  | -0.298919  | 4.22013849 | 2.12589399 | 0.16042304 | 0.24778722 |
| 1700001J11F| 1.40693527 | -1.5119809 | 2.12576359 | 0.16043524 | 0.24778722 |
| Med10  | -0.2786309 | 3.50898414 | 2.12554807 | 0.1604554 | 0.24778722 |
| Tfp2a  | -0.3514536 | 3.94544385 | 2.1249531 | 0.16051109 | 0.24780574 |
| Tex264 | -0.3067454 | 3.26062366 | 2.12487933 | 0.16051799 | 0.24780574 |
| Exoc5  | 0.17639682 | 6.2944493  | 2.12291774 | 0.16070176 | 0.24804756 |
| Tceil8 | -0.331059  | 7.27685964 | 2.12237297 | 0.16075284 | 0.24804756 |
| Wdr77  | 0.21628756 | 5.07304581 | 2.12213427 | 0.16077523 | 0.24804756 |
| Pch1   | 0.38427565 | 3.10887711 | 2.12212687 | 0.16077592 | 0.24804756 |
| 1190005I06R | -1.4815346 | -1.2426018 | 2.12141148 | 0.16084305 | 0.24811204 |
| Acss3  | -0.4761224 | 2.36379029 | 2.12077047 | 0.16090322 | 0.24816578 |
| Dda1   | -0.2419422 | 4.55962534 | 2.12035972 | 0.16094179 | 0.24818619 |
| Hdac4  | 0.28075546 | 5.07433914 | 2.11975652 | 0.16099845 | 0.24823449 |
| Crb1   | -1.6712295 | -0.9575645 | 2.11938427 | 0.16103343 | 0.24824935 |
| Tipin  | -0.4615771 | 4.23054188 | 2.11892583 | 0.16107653 | 0.24827671 |
| Pcdh19 | 0.26206054 | 6.24158074 | 2.11780472 | 0.16118197 | 0.24840015 |
| Hs93t1 | -0.284311 | 4.20816129 | 2.11639948 | 0.16131426 | 0.24854908 |
| Ptcra  | 1.07993307 | -0.9409011 | 2.1159964 | 0.16135222 | 0.24854908 |
| Gpr180 | -0.3310314 | 3.9525995 | 2.11596973 | 0.16135474 | 0.24854908 |
| 2200002D01 | -0.7693003 | 0.63943445 | 2.11232869 | 0.16169821 | 0.24903901 |
| Fam83h | -0.521147 | 1.56831649 | 2.11176099 | 0.16175185 | 0.24908245 |
| Cd3e   | -0.6526191 | 2.3050467 | 2.10922591 | 0.16199161 | 0.24941246 |
| Ube2e3 | -0.2337285 | 7.65512624 | 2.10803892 | 0.16210403 | 0.24949741 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Zfp180 | 0.19293437 | 5.1210023 | 2.10780889 | 0.16212583 | 0.24949741 |
| Ptrl   | -0.4032587 | 6.57759735 | 2.10757419 | 0.16214807 | 0.24949741 |
| Srl    | -0.4631871 | 1.87903088 | 2.10748041 | 0.16215696 | 0.24949741 |
| Pdlim5 | -0.3049615 | 7.39530716 | 2.1071607 | 0.16218726 | 0.24949741 |
| Pik3c3 | 0.19777471 | 5.50158072 | 2.10703038 | 0.16219962 | 0.24949741 |
| Stk25  | -0.1524385 | 6.73281195 | 2.10637814 | 0.16226147 | 0.24955337 |
| Tcf3   | -0.351987 | 3.66483439 | 2.10489738 | 0.16240201 | 0.2497 |
| Prr5l  | 0.39491244 | 2.40754669 | 2.10457037 | 0.16243307 | 0.2497 |
| Mphosph9 | 0.30670671 | 4.87189749 | 2.10406104 | 0.16248145 | 0.2497 |
| Stox2  | 0.26114349 | 7.99509909 | 2.10397302 | 0.16248981 | 0.2497 |
| Grhl1  | 0.37636067 | 2.97171947 | 2.10386109 | 0.16250045 | 0.2497 |
| Nfe2l3 | 0.43197984 | 2.48759013 | 2.10376306 | 0.16250977 | 0.2497 |
| 4930412C18i | -0.791748 | 1.24851585 | 2.10313456 | 0.16256951 | 0.24970728 |
| Rtfdc1 | -0.2751846 | 5.58179619 | 2.10280421 | 0.16260092 | 0.24970728 |
| Mrps18a | -0.4194887 | 3.38640429 | 2.10224952 | 0.16265368 | 0.24970728 |
| Rccd1  | 0.55091454 | 1.48306808 | 2.10190403 | 0.16268656 | 0.24970728 |
| Ctc1   | 0.25304147 | 4.13550488 | 2.10187279 | 0.16268953 | 0.24970728 |
| Sqrdl  | -0.4324913 | 3.40384126 | 2.10178945 | 0.16269746 | 0.24970728 |
| Acs1l  | -0.1887968 | 6.51345693 | 2.10143236 | 0.16273145 | 0.24970728 |
| Cramp1l | 0.19552331 | 6.39451023 | 2.10108619 | 0.1627644 | 0.24970728 |
| Ccdc107 | 0.45424171 | 2.78089312 | 2.10102368 | 0.16277036 | 0.24970728 |
| Lgr4   | 0.2126378 | 5.69464346 | 2.10089868 | 0.16278226 | 0.24970728 |
| Ttc18  | 0.86842829 | 0.60106621 | 2.1005821 | 0.16281241 | 0.24970728 |
| Snap23 | -0.2579241 | 7.16619775 | 2.1004981 | 0.16282041 | 0.24970728 |
| Tubgcp6 | 0.35676401 | 3.40036445 | 2.09878354 | 0.16298383 | 0.24991878 |
| Slc25a17 | 0.26310487 | 5.69498941 | 2.0978834 | 0.16306971 | 0.24999263 |
| Trappc4 | -0.3541596 | 3.52625341 | 2.09768623 | 0.16308853 | 0.24999263 |
| Lclat1 | 0.20607637 | 6.05359353 | 2.0974764 | 0.16310856 | 0.24999263 |
| Phc1   | 0.18131541 | 6.3147553 | 2.09707326 | 0.16314705 | 0.2500125 |
| Unc5d  | 0.28829928 | 6.21275361 | 2.0950861 | 0.16333693 | 0.25021354 |
| Vsx2   | 2.55487333 | -1.7368724 | 2.09494456 | 0.16335047 | 0.25021354 |
| 1700113A16 | 0.32442341 | 3.91329545 | 2.09489854 | 0.16335487 | 0.25021354 |
| Unc5c  | 0.23587053 | 6.71418233 | 2.09440197 | 0.16340237 | 0.25024717 |
| Efna2  | 0.85108858 | 0.54814271 | 2.09359872 | 0.16347924 | 0.25025701 |
| Nek1   | 0.25405504 | 6.39445689 | 2.0935538 | 0.16348354 | 0.25025701 |
| Ano8   | 0.72338401 | 0.67743509 | 2.09353393 | 0.16348544 | 0.25025701 |
| Gm544  | 2.33946051 | -0.6670952 | 2.09292016 | 0.16354421 | 0.25030785 |
| Usp11  | 0.21754722 | 7.40496028 | 2.09190975 | 0.16364102 | 0.25041689 |
| Mzb1   | -1.8732188 | -1.791709 | 2.0911875 | 0.16371026 | 0.25048371 |
| Gpsm1  | 0.35136163 | 2.66469454 | 2.09074435 | 0.16375276 | 0.25050961 |
| Neu4   | 0.4470458 | 2.46054325 | 2.08958304 | 0.1638642 | 0.25057676 |
| Gm11201 | 1.61195173 | -0.2656289 | 2.0894383 | 0.16387756 | 0.25057676 |
| Aldh1a7 | -0.8070756 | 0.42021628 | 2.08915507 | 0.16390529 | 0.25057676 |
| Gene   | Value   |
|--------|---------|
| Pprc1  | 0.32302658 |
| Pwpp2b | -0.5155476 |
| 9130011E151 | 0.30388999 |
| Dlk1   | 0.41510311 |
| Gabra1 | 0.21637954 |
| Carhs1 | -0.421106 |
| Ap5s1  | -0.4774637 |
| Gm17066| 0.32420232 |
| Lap3   | 0.21536729 |
| Rcn1   | -0.3605414 |
| Cep76  | 0.30153843 |
| Plbd2  | 0.22331908 |
| Ubf1d  | -0.1759764 |
| Aco2   | 0.178606 |
| Rnf216 | -0.1756104 |
| Rbm3os | 1.13727175 |
| Rsrp1  | 0.32409859 |
| Alox12 | 0.65055174 |
| Zfp281 | 0.22208066 |
| H2-Ke6 | -0.5863402 |
| Hmgn1  | -0.3029409 |
| Pla2g7 | 0.49997553 |
| Zfp773 | 0.79331263 |
| Hmgn3  | -0.2454184 |
| Vamp3  | -0.2771831 |
| Psme2  | -0.3420155 |
| Gpc5   | 0.43834693 |
| Fam105a| -0.3695589 |
| Cog6   | 0.18715301 |
| Ppm1a  | -0.1900948 |
| Slc25a13| 0.76122675 |
| Glrb   | 0.1870823 |
| Itgb8  | 0.31389602 |
| Osgep  | -0.2834152 |
| Gm17769| -0.6971431 |
| Trpt1  | -0.3418238 |
| Plxnb1 | 0.29981533 |
| Zfp385a| -0.3778169 |
| Abat   | 0.21925912 |
| Nhhl2  | -1.3877696 |
| Atox1  | -0.4070011 |
| Tasp1  | -0.2081988 |
| Zfp398 | 0.25447021 |
| Gene        | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|-------------|---------|---------|---------|---------|---------|---------|
| Tmem259     | -0.2042021 | 7.21113596 | 2.06541157 | 0.16620487 | 0.25233537 |
| Ovol2       | -0.4851811 | 1.7981292 | 2.06536162 | 0.16620975 | 0.25233537 |
| Trim6       | -1.5100898 | -0.5497775 | 2.06535101 | 0.16621078 | 0.25233537 |
| Col24a1     | 1.0129412 | 0.43538325 | 2.06511076 | 0.16623426 | 0.25233537 |
| Far2        | 0.35539463 | 3.82220963 | 2.06462616 | 0.16628161 | 0.2523358 |
| Cmtn3       | -0.3594818 | 3.14524451 | 2.06444285 | 0.16629952 | 0.2523358 |
| Ptgs2os     | 0.74167381 | 0.78329448 | 2.06431709 | 0.16631182 | 0.2523358 |
| Chchd5      | -0.3907567 | 2.63589755 | 2.06393979 | 0.16634871 | 0.25235269 |
| Rad51b      | 1.88331344 | -1.3350402 | 2.0634607  | 0.16639556 | 0.25238467 |
| Atp6v1b2    | -0.1853032 | 8.40068724 | 2.06244052 | 0.16649538 | 0.25249698 |
| Lrcc8b      | 0.23262888 | 5.96179813 | 2.06175782 | 0.16656223 | 0.25252439 |
| Kcnh4       | 0.60348704 | 1.83296226 | 2.06172931 | 0.16656502 | 0.25252439 |
| Wbp2        | -0.1832974 | 7.02579978 | 2.06013289 | 0.16672146 | 0.25263734 |
| Mroh1       | 0.3640993  | 4.29708474 | 2.06004426 | 0.16673015 | 0.25263734 |
| Aasdh       | 0.49506788 | 2.09204686 | 2.05984795 | 0.1667494 | 0.25263734 |
| Srrm4       | 0.29039563 | 6.13290984 | 2.0597876  | 0.16675532 | 0.25263734 |
| Fnip1       | 0.25464001 | 5.8156585  | 2.05965341 | 0.16676848 | 0.25263734 |
| Gm17751     | -1.7762267 | -0.8407761 | 2.05918416 | 0.16681451 | 0.25266272 |
| Mapkapk2    | -0.31621088| 4.27647673 | 2.05895679 | 0.16683682 | 0.25266272 |
| Ephx4       | -0.2243549 | 5.18556437 | 2.05809221 | 0.16692169 | 0.25275217 |
| Cadps2      | 0.25531337 | 6.41826898 | 2.05782777 | 0.16694766 | 0.25275242 |
| Fhdc1       | 0.71463059 | 0.87332126 | 2.05735661 | 0.16699394 | 0.25278233 |
| Slc18a2     | 0.40324981 | 2.87449392 | 2.05710127 | 0.16701903 | 0.25278233 |
| 8430419L09f | -0.2335958 | 5.70735474 | 2.05667925 | 0.1670605  | 0.25280604 |
| 93301620121 | -1.0278104 | 0.74118326 | 2.05590089 | 0.16713703 | 0.25288278 |
| Iqsec1      | 0.28734526 | 7.84159001 | 2.05553391 | 0.16717313 | 0.25289833 |
| Abhd16a     | 0.22585054 | 4.50715658 | 2.05486377 | 0.16723907 | 0.25295902 |
| Trim3       | 0.24043987 | 4.52986376 | 2.0542791 | 0.16729662 | 0.25300701 |
| Kcnt2       | 0.34545729 | 5.43269242 | 2.05373444 | 0.16735026 | 0.25302494 |
| Vmn2r29     | 0.34954347 | 3.38591024 | 2.05363412 | 0.16736014 | 0.25302494 |
| Chic2       | -0.32442444| 3.94294952 | 2.05291493 | 0.16743101 | 0.25309301 |
| Tusc2       | -0.197616 | 4.92345459 | 2.05176943 | 0.16754395 | 0.25322466 |
| Spock3      | 0.21667139 | 5.22420083 | 2.05106435 | 0.16761352 | 0.25329073 |
| Lacc1       | -0.29681494| 4.5523204 | 2.0497821  | 0.16774012 | 0.25344294 |
| Spns1       | 0.48042217 | 2.31003266 | 2.04944407 | 0.16777352 | 0.25345317 |
| Adra2a      | -0.37606508| 4.09654235 | 2.04902389 | 0.16781504 | 0.25345317 |
| Rcan3       | -0.21493922| 5.12241842 | 2.04892804 | 0.16782451 | 0.25345317 |
| Cyp1b1      | -0.29813999| 7.03186445 | 2.0482363 | 0.16789299 | 0.25349581 |
| Btbd19      | 0.45249098 | 2.62610308 | 2.04802321 | 0.16791398 | 0.25349581 |
| Ccm2        | -0.2822955 | 3.74234732 | 2.04785732 | 0.16793039 | 0.25349581 |
| Tcf25       | -0.1469647 | 8.4293522 | 2.04689962 | 0.16802515 | 0.25359978 |
| Ndufv2      | -0.20493122| 6.21579475 | 2.04633951 | 0.16808061 | 0.25362134 |
| Tmem259     | 0.39884675 | 3.37626986 | 2.0460061 | 0.16811363 | 0.25362134 |
| Gene      | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sardh     | -0.529011 | 2.20150384 | 2.04579407 | 0.16813463 | 0.25362134 |
| Dthd1     | 1.28639141 | -0.44134799 | 2.04507223 | 0.16820616 | 0.25362134 |
| Fas       | 1.15570843 | 0.28238961 | 2.04484495 | 0.16822869 | 0.25362134 |
| Nanp      | -0.3378569 | 4.00038521 | 2.04453849 | 0.16825907 | 0.25362134 |
| Zc3hc1    | -0.4317677 | 2.28311213 | 2.04447808 | 0.16826506 | 0.25362134 |
| Gk5       | -0.4031123 | 1.99776092 | 2.04445314 | 0.16826753 | 0.25362134 |
| Il6ra     | 0.47625261 | 2.57813041 | 2.04440341 | 0.16827247 | 0.25362134 |
| Hpgds     | 0.51601132 | 2.40122513 | 2.04322611 | 0.16838926 | 0.25374835 |
| Hsf4      | 0.57822711 | 1.34637394 | 2.04277806 | 0.16843374 | 0.25374835 |
| 4921507P07l | 0.86973781 | 0.29850225 | 2.04272615 | 0.16843889 | 0.25374835 |
| Map3k3    | 0.3195662 | 3.27514667 | 2.04235131 | 0.16847611 | 0.25374835 |
| Aga       | -0.4520905 | 3.47617596 | 2.04224915 | 0.16848626 | 0.25374835 |
| Ccde80    | 0.60107622 | 2.41847797 | 2.04181357 | 0.16852953 | 0.25377449 |
| Bud13     | -0.3770877 | 2.07170836 | 2.04117778 | 0.16859271 | 0.25378259 |
| Mylk      | -0.2570881 | 6.02107429 | 2.04113428 | 0.16859704 | 0.25378259 |
| H3f3b     | -0.3094742 | 9.00360196 | 2.04061679 | 0.16864848 | 0.25378259 |
| Kcnip4    | -0.1978636 | 7.02681081 | 2.04055292 | 0.16865483 | 0.25378259 |
| Slc12a9   | 0.65563799 | 1.25442533 | 2.04021826 | 0.16868811 | 0.25378259 |
| Olfn1     | -0.1751948 | 9.19770912 | 2.04001191 | 0.16870864 | 0.25378259 |
| Spata32   | -1.006072 | -0.0808031 | 2.03993527 | 0.16871626 | 0.25378259 |
| Nm1       | 0.23272362 | 4.52773846 | 2.03951616 | 0.16875796 | 0.25378384 |
| Gm12657   | -0.3482923 | 3.51445235 | 2.03934721 | 0.16877478 | 0.25378384 |
| Cds2      | 0.22181799 | 7.73388419 | 2.03914586 | 0.16879482 | 0.25378384 |
| Gm16386   | 0.48640092 | 2.00126101 | 2.0377987 | 0.16892898 | 0.25385087 |
| Rabl2     | -0.3041534 | 3.87155561 | 2.03766466 | 0.16894234 | 0.25385087 |
| S1c35b3   | 0.40444653 | 2.18496086 | 2.03763879 | 0.16894942 | 0.25385087 |
| Tcf7l1    | -0.3656411 | 5.36479086 | 2.0371809 | 0.16899055 | 0.25385087 |
| Pdxd8     | 0.16313988 | 7.10026311 | 2.03714208 | 0.16899442 | 0.25385087 |
| Dnajc7    | -0.1575706 | 6.56262307 | 2.03707063 | 0.16900154 | 0.25385087 |
| Gja3      | -2.942439 | -1.8770498 | 2.03666796 | 0.16904169 | 0.25385087 |
| 2810429i04r | 1.43915135 | -1.2896192 | 2.03653331 | 0.16905512 | 0.25385087 |
| Cited1    | -0.6321196 | 1.57350636 | 2.03625241 | 0.16908314 | 0.25385087 |
| Prelid1   | -0.2787888 | 5.79419782 | 2.0359827 | 0.16911004 | 0.25385087 |
| Cda       | 1.63464986 | -0.9011938 | 2.03583806 | 0.16912447 | 0.25385087 |
| Krtcap2   | -0.3171766 | 3.33774937 | 2.03521029 | 0.16918713 | 0.25390601 |
| Zc3h7b    | 0.20529343 | 6.02032441 | 2.03466405 | 0.16924167 | 0.25394895 |
| Plb1      | -0.5634571 | 2.38062734 | 2.03391329 | 0.16931666 | 0.25398705 |
| 4930480k15 | 0.72811599 | 2.74301116 | 2.03389074 | 0.16931891 | 0.25398705 |
| Angp1t7   | 0.84097922 | 1.56096418 | 2.03308263 | 0.16939968 | 0.25401199 |
| Gm10408   | 0.97082217 | -0.4186977 | 2.03279001 | 0.16942894 | 0.25401199 |
| Commd8    | -0.306069 | 5.76987155 | 2.0327652 | 0.16943142 | 0.25401199 |
| Anx5      | -0.374266 | 8.20189293 | 2.03268625 | 0.16943932 | 0.25401199 |
| Lipo1     | -0.3306582 | 4.94977586 | 2.03180038 | 0.16952794 | 0.25401199 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 |
|--------|--------|--------|--------|--------|--------|
| Dut    | 0.18982246 | 6.30615254 | 2.03159451 | 0.16954854 | 0.25401199 |
| Ppat   | 0.24161528 | 4.38681869 | 2.03130878 | 0.16957714 | 0.25401199 |
| Rab11fip4 | -0.2918132 | 5.52632492 | 2.03110844 | 0.1695972 | 0.25401199 |
| Tubgcp3 | 0.22601819 | 4.42504064 | 2.03104892 | 0.16960316 | 0.25401199 |
| Gm15055 | 1.64031075 | -1.4464587 | 2.03065155 | 0.16964295 | 0.25401199 |
| D15Erd621e | -0.160961 | 7.09753655 | 2.03058654 | 0.16964946 | 0.25401199 |
| Wdr4   | 0.47458471 | 2.39994244 | 2.0302956 | 0.16969524 | 0.25401199 |
| Slc41a1 | -0.3072341 | 7.95331276 | 2.03012424 | 0.16969577 | 0.25401199 |
| C2cd3  | 0.29037474 | 5.22226321 | 2.03009615 | 0.16969859 | 0.25401199 |
| Glit1d1 | 0.59746499 | 1.04808471 | 2.02966807 | 0.16974149 | 0.25403738 |
| Cyp4f17 | 1.8715641 | -1.7790445 | 2.02903089 | 0.16980536 | 0.25409415 |
| Taf7l  | 0.74396506 | 1.07692648 | 2.02788498 | 0.16992031 | 0.25417245 |
| Dcaf6  | 0.245482 | 6.91944124 | 2.02787873 | 0.16992094 | 0.25417245 |
| Gabrg3 | 0.42369467 | 4.67302753 | 2.02773335 | 0.16993553 | 0.25417245 |
| Nus1   | 0.16368915 | 6.88160066 | 2.02633103 | 0.17007634 | 0.25434423 |
| Gtf2h2 | -0.2121177 | 4.9605787 | 2.02554273 | 0.17015557 | 0.25442386 |
| Abcf2  | -0.2210378 | 5.35137765 | 2.0252602 | 0.17018397 | 0.25442749 |
| Smg6   | 0.20331543 | 5.6233263 | 2.02483867 | 0.17022636 | 0.25445203 |
| Scd2   | 0.17736683 | 8.33435945 | 2.02394964 | 0.1703158 | 0.25454688 |
| Paqr3  | 0.45491601 | 2.38706999 | 2.02256443 | 0.17045528 | 0.25471648 |
| Car7   | 0.55279959 | 1.42663876 | 2.02201992 | 0.17051015 | 0.2547489 |
| 5930430L01f | -0.3380773 | 4.70600952 | 2.02183294 | 0.17052899 | 0.2547489 |
| Mest   | 0.34345778 | 6.37721065 | 2.02110428 | 0.17060246 | 0.25481978 |
| Nrnx2  | -0.2188008 | 5.40005457 | 2.02069881 | 0.17064335 | 0.25484161 |
| Adsl   | 0.29812377 | 4.44688596 | 2.02044357 | 0.1706691 | 0.25484161 |
| Clra   | -0.6929773 | 0.72250136 | 2.0193962 | 0.17077482 | 0.2549606 |
| Neat1  | 0.24755278 | 5.07494143 | 2.01850087 | 0.17086525 | 0.254985 |
| Frs3   | 0.46892517 | 2.42524315 | 2.01826314 | 0.17088927 | 0.254985 |
| Zfp600 | 1.14123684 | -1.1369565 | 2.01818145 | 0.17089753 | 0.254985 |
| Efcb4b | 1.48269247 | -1.40681199 | 2.01812421 | 0.17090331 | 0.254985 |
| Cpeb3  | 0.20468054 | 7.55417114 | 2.01794606 | 0.17092132 | 0.254985 |
| Inpp5j | 0.36798822 | 3.41493072 | 2.01703492 | 0.17101345 | 0.25504729 |
| 1700024P16I | 0.94943899 | 0.72847317 | 2.01670522 | 0.1710468 | 0.25504729 |
| Tm Emanuel154 | -0.4674565 | 3.39839812 | 2.01664968 | 0.17105242 | 0.25504729 |
| Tnxb   | 0.61042128 | 1.28082218 | 2.01650335 | 0.17106722 | 0.25504729 |
| Ar     | 0.30533371 | 4.30558559 | 2.01606872 | 0.17111121 | 0.25504947 |
| Gmnc   | 1.1270285 | -0.5135682 | 2.01597437 | 0.17112076 | 0.25504947 |
| Mrp10  | -0.2457949 | 4.71819044 | 2.01495531 | 0.17122395 | 0.25516444 |
| Tfdp2  | -0.1590711 | 6.23340646 | 2.01451428 | 0.17126863 | 0.25519221 |
| Chpt1  | 0.2700352 | 5.44121006 | 2.0141927 | 0.17130122 | 0.25519771 |
| Grem2  | -0.2289787 | 5.2695346 | 2.01396374 | 0.17132443 | 0.25519771 |
| Megf10 | 0.35771967 | 4.61145867 | 2.01322982 | 0.17139885 | 0.25526974 |
| Dut    | -0.2747195 | 4.83592111 | 2.01229576 | 0.17149362 | 0.25537205 |
| Gene    | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   | Value 10  |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nfe2l1  | -0.191861 | 7.82225763| 2.01200302| 0.17152333| 0.25537748|
| Lyz2    | -0.464048 | 3.56935062| 2.01156234| 0.17156808| 0.2553913 |
| Trappc5 | -0.3012319| 4.15310119| 2.01139802| 0.17158476| 0.2553913 |
| Arap3   | 0.68700115| 1.59536031| 2.01048765| 0.17167725| 0.25549014|
| Cdkn1c  | -0.4127963| 5.69488742| 2.01011998| 0.17171462| 0.25550694|
| Ahsa2   | -0.2370883| 4.73143672| 2.00925376| 0.1718027 | 0.25559917|
| 1810032O08| -1.0390232| -0.4284775| 2.00796435| 0.17193392| 0.25575555|
| Smg5    | 0.24378536| 4.39297691| 2.00733506| 0.17199801| 0.2557565 |
| Ap1s2   | -0.2125217| 6.31247399| 2.00725212| 0.17200645| 0.2557565 |
| Pik3cd  | 0.38194745| 2.8153947| 2.00718895| 0.17201289| 0.2557565 |
| Gpr176  | 0.4603017 | 2.61658925| 2.00583134| 0.17215126| 0.25591864|
| Vps37a  | -0.2275882| 7.7321129 | 2.00560641| 0.1721742 | 0.25591864|
| Hip1r   | 0.41057469| 3.19870087| 2.00518898| 0.17221678| 0.25593524|
| Pim2    | -0.2261133| 4.10662835| 2.0047391 | 0.17226268| 0.25593524|
| Nox4    | -0.6202253| 1.22891877| 2.00472861| 0.17226375| 0.25593524|
| Sh3gl2  | -0.2278633| 9.33445628| 2.00400582| 0.17233753| 0.25600603|
| Procr   | -0.8876054| 1.61350465| 2.00345569| 0.17239371| 0.25601672|
| Vars2   | -0.4991269| 2.25968597| 2.00326614| 0.17241308| 0.25601672|
| Zfp457  | 0.89409061| 0.29169321| 0.25601672|
| Adams10 | -0.4513819| 0.20820728| 0.20074046| 0.17267134| 0.2563464 |
| Psma5   | -0.2167973| 5.72397389| 1.99845683| 0.17290526| 0.25657393|
| Plekha8 | 0.27945081| 4.32360688| 1.99830512| 0.17292082| 0.25657393|
| BC049352| 1.63301095| -1.7776477| 1.99807201| 0.17294472| 0.25657393|
| Nh1rc4  | -1.3212312| -0.4151963 | 1.99802059| 0.17294999| 0.25657393|
| Pitrm1  | 0.2149959 | 5.2643786 | 1.99774369| 0.17297839| 0.25657393|
| Bloc1s5 | -0.4197536| 3.3249666 | 1.99771082| 0.17298177| 0.25657393|
| Zgrf1   | 0.48521327| 2.5509492 | 1.99631356| 0.17312516| 0.25672058|
| Yy2     | 0.87746796| -0.0337332 | 1.99610531| 0.17314655| 0.25672058|
| Pask    | 0.78856466| 0.83317781 | 1.99598155| 0.17315926| 0.25672058|
| Arhgap4 | -1.3987078| -0.1392605 | 1.99485116| 0.1732754 | 0.25681422|
| Cd36    | 1.24330219| -0.390192 | 1.9946573 | 0.17329533| 0.25681422|
| Rnf112  | 0.34349164| 4.83507087| 1.99458407| 0.17330286| 0.25681422|
| Echs1   | -0.28421144| 4.38260883| 1.99434639| 0.17332729| 0.25681422|
| Bbs5    | 0.31900516| 3.73149981| 1.99394648| 0.17336842| 0.25683631|
| Mme     | 0.27071256| 4.26111758| 1.9935807 | 0.17340605| 0.25685321|
| Tpgs2   | -0.1698013 | 6.19132369| 1.99281082| 0.17348528| 0.25693171|
| Pou2f1  | 0.19487801| 5.80107812| 1.99049884| 0.17372348| 0.25724559|
| Pi4k2b  | 0.49213585| 2.02012472| 1.98966839| 0.17380914| 0.25729912|
| Narfl   | -0.4012795| 2.64718879| 1.98963906| 0.17381216| 0.25729912|
| Morc4   | -0.340853| 2.89235091| 1.98912962| 0.17386474| 0.25730269|
| Prkcb   | 0.22650571| 11.0318329 | 1.98910661 | 0.17386711| 0.25730269|
| Hebp1   | -0.2856309| 3.58687395| 1.98859635| 0.17391979| 0.25734177|
| 2810055G20| 0.4217255| 2.25090386| 1.9883256 | 0.17394775| 0.25734427|
| Gene          | Z-score | Log2 Fold Change | p-value  | Adjusted p-value |
|--------------|---------|-----------------|----------|-----------------|
| Efcab6       | 0.5914  | 1.7914          | 0.9867   | 0.17408         |
| Zmat3        | -0.2049 | 9.3706          | 0.9869   | 0.17409         |
| Gm15417      | -0.6194 | 1.1718          | 0.9865   | 0.17413         |
| Ddx39b       | -0.1926 | 5.4306          | 0.9864   | 0.17413         |
| 1500015A07   | 0.5163  | 2.1984          | 0.9850   | 0.17429         |
| Mocos        | 0.6330  | 1.4294          | 0.9800   | 0.17408         |
| Rtkn2        | 0.6906  | 1.1922          | 0.9835   | 0.17444         |
| Sbson        | -0.8299 | 0.7386          | 0.9809   | 0.17471         |
| Sprr1a       | -3.2503 | -0.2489         | 2.0070   | 0.17473         |
| Sypl         | 0.2520  | 6.3986          | 0.9805   | 0.17474         |
| Rdh10        | 0.2689  | 3.6843          | 0.9800   | 0.17480         |
| Zfpm2        | 0.3995  | 3.7386          | 0.9800   | 0.17404         |
| Sgtb         | -0.1977 | 8.0519          | 0.9800   | 0.17490         |
| Daam1        | 0.2186  | 6.9200          | 0.9790   | 0.17502         |
| B3gnt1       | -0.2324 | 4.8439          | 0.9790   | 0.17502         |
| Ptpn7        | 0.3993  | 3.2893          | 0.9774   | 0.17490         |
| Adamts8      | 0.9073  | -0.3301         | 0.9763   | 0.17518         |
| Amz1         | -0.4796 | 1.7849          | 0.9755   | 0.17527         |
| Lonrf2       | 0.2246  | 8.0729          | 0.9750   | 0.17502         |
| Golim4       | 0.2501  | 5.9351          | 0.9750   | 0.17502         |
| Stra6        | -0.4857 | 7.1047          | 0.9755   | 0.17527         |
| Csf2rb       | -0.6345 | 1.3256          | 0.9746   | 0.17490         |
| Relb         | -0.6312 | 0.4168          | 0.9742   | 0.17541         |
| Fyb          | -0.3735 | 4.4935          | 0.9739   | 0.17544         |
| Abcc3        | 1.1526  | -0.6679         | 0.9736   | 0.17547         |
| Tbp1         | -0.1514 | 6.4140          | 0.9736   | 0.17547         |
| Pgp          | -0.2904 | 4.8019          | 0.9733   | 0.17550         |
| Phlda3       | -0.4425 | 2.6121          | 0.9726   | 0.17557         |
| Entpd1       | -0.3528 | 3.0120          | 0.9723   | 0.17560         |
| Aplp2        | 0.1484  | 8.4624          | 0.9717   | 0.17567         |
| Wdr27        | 1.6880  | 8.0729          | 0.9716   | 0.17567         |
| 1700025F24I  | -2.1588 | -2.1778         | 0.9715   | 0.17568         |
| Amotl1       | -0.2229 | 6.8819          | 0.9706   | 0.17578         |
| Taok1        | 0.1498  | 9.6432          | 0.9703   | 0.17581         |
| Enah         | 0.2285  | 8.3586          | 0.9703   | 0.17581         |
| Nu12d2       | -0.5323 | 2.8442          | 0.9692   | 0.17593         |
| Nrradd       | -0.9718 | 0.2973          | 0.9692   | 0.17593         |
| Ier3         | -0.3825 | 4.1511          | 0.9683   | 0.17602         |
| Apc2         | 0.3529  | 4.6008          | 0.9673   | 0.17612         |
| Chst12       | -0.4637 | 1.7499          | 0.9673   | 0.17612         |
| Pcf11        | 0.1892  | 6.5861          | 0.9671   | 0.17614         |
| S1x4ip       | -0.3563 | 3.0386          | 0.9662   | 0.17624         |
| Calcr        | -0.2843 | 4.3425          | 0.9643   | 0.17645         |
| Gene     | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| Tmem160  | -0.7163572 | 1.07426555 | 1.96392731 | 0.17649014 | 0.25936512 |
| Coq5     | -0.1710563 | 6.38058398 | 1.96378369 | 0.17650524 | 0.25936512 |
| E030019B06 | 1.4516364 | -0.5614128 | 1.96299768 | 0.17658791 | 0.25944768 |
| Pdcd6ip  | 0.1569343 | 7.45387281 | 1.96241112 | 0.17664964 | 0.25949944 |
| Cep57    | 0.2342741 | 4.61047186 | 1.96200094 | 0.17669282 | 0.25951156 |
| Par2     | 0.21958377 | 4.67553841 | 1.96139267 | 0.17675687 | 0.25951156 |
| Zdhc17   | 0.22010491 | 6.78753137 | 1.96138139 | 0.17675806 | 0.25951156 |
| Tmem41a  | -0.3093038 | 3.74697865 | 1.96132637 | 0.17676386 | 0.25951156 |
| Lrr1     | -0.3491078 | 5.08688029 | 1.96052559 | 0.17684823 | 0.2595044 |
| Mei4     | 0.95509156 | 0.42421138 | 1.96026875 | 0.1768753 | 0.25955044 |
| Mapk13   | -2.0491951 | -1.634588 | 1.96011212 | 0.17689182 | 0.25955044 |
| Dusp23   | -0.504501 | 2.79903088 | 1.96006931 | 0.17689633 | 0.25955044 |
| Msrb2    | -0.2510171 | 4.28512107 | 1.9594826 | 0.1769582 | 0.25960234 |
| Gm15217  | -1.4153101 | -1.6360099 | 1.95901778 | 0.17700724 | 0.25963539 |
| Sp3os    | -0.4488138 | 3.10306267 | 1.95718907 | 0.17720033 | 0.25986172 |
| Tcta     | -0.3135334 | 4.4087972 | 1.95705399 | 0.1772146 | 0.25986172 |
| Chmp5    | -0.2695236 | 6.60861862 | 1.95560368 | 0.17736793 | 0.26004763 |
| Ints12   | 0.22346519 | 4.73342716 | 1.95455106 | 0.17747932 | 0.260172 |
| Agmat    | -1.3278137 | -0.0296026 | 1.95367551 | 0.17757204 | 0.26026897 |
| D630003M21 | -1.0124743 | 0.44311259 | 1.95228103 | 0.17771983 | 0.26044662 |
| Ifld1    | -0.3278503 | 5.40439857 | 1.95193989 | 0.17775601 | 0.26046067 |
| Pvl2     | 0.68672071 | 1.42364104 | 1.9514602 | 0.17780689 | 0.26047798 |
| Nfe2l2   | -0.2336654 | 7.84925387 | 1.95132722 | 0.17782101 | 0.26047798 |
| Sp2      | -0.3529541 | 5.31463402 | 1.95073851 | 0.1778349 | 0.26053054 |
| Gm14379  | 1.27732705 | -0.7781729 | 1.94995887 | 0.17796628 | 0.26059708 |
| Cdk15    | 0.7091651 | 0.70685136 | 1.94963516 | 0.17800067 | 0.26059708 |
| Fgd6     | 0.24254499 | 6.33846098 | 1.94939643 | 0.17802603 | 0.26059708 |
| Pabpc1   | -0.1707856 | 8.19210904 | 1.94930888 | 0.17803533 | 0.26059708 |
| Itga6    | 0.3398272 | 3.55203255 | 1.94850963 | 0.1781203 | 0.26068249 |
| Glrx5    | -0.3009653 | 3.73372452 | 1.94763999 | 0.1782128 | 0.2607789 |
| Cdpf1    | -0.4674208 | 3.2397897 | 1.94704735 | 0.17827587 | 0.26081066 |
| Plekgh6  | 1.5185369 | 0.05534545 | 1.94685084 | 0.17829679 | 0.26081066 |
| Arhgef10 | -0.2121785 | 5.27670448 | 1.94668563 | 0.17831438 | 0.26081066 |
| lgp1     | -0.3661764 | 4.08486279 | 1.94477214 | 0.17851826 | 0.26106988 |
| Rchy1    | -0.2096254 | 5.50211776 | 1.94442065 | 0.17855574 | 0.26108572 |
| Lsm4     | -0.3828375 | 3.33172419 | 1.94413106 | 0.17858663 | 0.26109191 |
| Olfr558  | -2.2024781 | -1.0715801 | 1.9415727 | 0.1788598 | 0.26145226 |
| Vat1i1   | 0.30832053 | 5.41946063 | 1.94020812 | 0.17900571 | 0.26155377 |
| Rnf166   | -0.2983472 | 4.71944735 | 1.94014185 | 0.1790128 | 0.26155377 |
| Ssh1     | -0.3700718 | 2.40579911 | 1.94008703 | 0.17901867 | 0.26155377 |
| Atpl11a  | 0.20609418 | 6.90085178 | 1.93992458 | 0.17903605 | 0.26155377 |
| Mob3a    | 0.35446479 | 2.63458704 | 1.9393806 | 0.17909883 | 0.26156726 |
| Elac2    | 0.4192105 | 2.88312398 | 1.93904215 | 0.17913051 | 0.26156726 |
Ahnak  -0.3073117  9.0753298  1.93880858  0.1791552  0.26156726
Aldh1l1  -0.2992514  3.6319835  1.93880049  0.17915638  0.26156726
F10       1.11049156 -0.8615185  1.93859118  0.1791788  0.26156726
Rmi2      0.42331525  2.19828046  1.93782764  0.17926061  0.26164372
Mrpl1     0.25485331  4.24105416  1.93744991  0.17930111  0.26164372
Gmnn      -0.4256778  2.06183801  1.93729425  0.17931778  0.26164372
4930444F02Rik  1.51287235  -0.6026053  1.93710547  0.17933803  0.26164372
Nxph3     0.91929163  -0.3782904  1.93628144  0.17942641  0.26172756
Xab2      0.26361965  3.85964232  1.93607161  0.17944893  0.26172756
Med22     -0.2851967  3.78866602  1.93476136  0.1795896  0.26189373
Dyx1c1    0.51518098  2.02333161  1.93264327  0.17981729  0.26215628
Syne2     0.20008282  5.49056442  1.93258867  0.17982316  0.26215628
Cmbl      -0.4149796  6.17617277  1.93113982  0.17997912  0.2623126
Elk1      0.23599901  4.81294127  1.93109501  0.17998395  0.2623126
Arid3c     1.6705816  -1.2824569  1.93004609  0.18009696  0.2624826
Cep192    0.35128814  4.46641486  1.92958622  0.18014654  0.2624923
Rapgef4   0.21679991  7.31173449  1.92921656  0.1801864  0.2624923
Gpr34     0.41506301  2.07134329  1.92841011  0.18027341  0.2624923
Fam114a1  -0.3741598  6.31411309  1.92838837  0.18027575  0.2624923
Crip2     -0.2100182  4.55658148  1.92828396  0.18028702  0.2624923
Ccdd135   -1.0440267  -0.2724766  1.928282  0.18028723  0.2624923
Grik4      0.52658166  1.91714354  1.92823748  0.18029204  0.2624923
Casz1     -0.5924808  2.11849461  1.9275955  0.18036135  0.26249761
Gm10754    0.5305969  1.74058134  1.92743322  0.18037887  0.26249761
Uqrnc      0.2267925  6.81664099  1.92621908  0.18051005  0.26260286
Jazf1      -0.2454903  5.2823902  1.92621235  0.18051078  0.26260286
Cyr61     -0.8013255  2.43826021  1.92601949  0.18053163  0.26260286
Ddx19b    0.24764453  5.11197622  1.92513552  0.18062722  0.26264151
Srsf6     0.16262462  5.68150112  1.925059  0.1806355  0.26264151
Trmt12    -0.3335655  3.27438155  1.92493481  0.18064894  0.26264151
Srebf1    0.31718231  2.89281282  1.92478222  0.18066545  0.26264151
Slc9a6    0.19564878  6.2789716  1.92423208  0.18072499  0.26268908
Ngrn      -0.2536895  4.21976295  1.92300272  0.18085813  0.26284304
Gm10433   -2.5319849  -1.6576177  1.92270713  0.18089016  0.26284304
9130023H24  -0.3206695  3.76212086  1.92226839  0.18093771  0.26284304
Abi2      0.17109469  8.54721792  1.92226349  0.18093825  0.26284304
8030423F21I  0.94553881  -0.8160297  1.92147619  0.18102362  0.26287674
Fbxw5     -0.2505435  5.41476069  1.92144482  0.18102702  0.26287674
Arxes1    0.41059666  2.41449458  1.92112051  0.18106221  0.26287674
Ormdl3   -0.3479528  4.20754267  1.92105984  0.18106879  0.26287674
Wnt11     1.57217543  -1.0895182  1.91958681  0.18122871  0.2630579
Arhgap18  -0.2267607  5.25575095  1.91930353  0.18125948  0.2630579
Pzp       1.37247628  -0.8954508  1.91916868  0.18127413  0.2630579
| Gene  | Value   | Gene  | Value   | Gene  | Value   | Gene  | Value   | Gene  | Value   |
|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| Itgae | -1.9916028 | Polk  | -0.2298523 | Ivtd | -0.2195915 | Stk16 | -0.3005998 | Ablim2 | 0.23062466 |
|       | -1.8146035 |       | 5.18978043 |       | 4.16781787 |       | 4.51350464 |       | 6.07377197 |
|       | 1.91861479 |       | 1.91824259 |       | 1.91772357 |       | 1.91734538 |       | 1.91729946 |
|       | 0.18133433 |       | 0.1813748 |       | 0.18143124 |       | 0.18147238 |       | 0.18147738 |
|       | 0.26310627 |       | 0.26312601 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
|       | 0.2935036 |       | 3.26749762 |       | 1.91700936 |       | 0.3256083 |       | 0.3256083 |
|       | 0.18150895 |       | 0.26316472 |       | 0.18157408 |       | 0.18157408 |       | 0.18147738 |
|       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
|       | 0.2935036 |       | 3.26749762 |       | 1.91700936 |       | 0.3256083 |       | 0.3256083 |
|       | 0.18150895 |       | 0.26316472 |       | 0.18157408 |       | 0.18157408 |       | 0.18147738 |
|       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
|       | 0.2935036 |       | 3.26749762 |       | 1.91700936 |       | 0.3256083 |       | 0.3256083 |
|       | 0.18150895 |       | 0.26316472 |       | 0.18157408 |       | 0.18157408 |       | 0.18147738 |
|       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
|       | 0.2935036 |       | 3.26749762 |       | 1.91700936 |       | 0.3256083 |       | 0.3256083 |
|       | 0.18150895 |       | 0.26316472 |       | 0.18157408 |       | 0.18157408 |       | 0.18147738 |
|       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
|       | 0.2935036 |       | 3.26749762 |       | 1.91700936 |       | 0.3256083 |       | 0.3256083 |
|       | 0.18150895 |       | 0.26316472 |       | 0.18157408 |       | 0.18157408 |       | 0.18147738 |
|       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
|       | 0.2935036 |       | 3.26749762 |       | 1.91700936 |       | 0.3256083 |       | 0.3256083 |
|       | 0.18150895 |       | 0.26316472 |       | 0.18157408 |       | 0.18157408 |       | 0.18147738 |
|       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |       | 0.26315791 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Nprl3 | 0.30933615 | 3.06488781 | 1.89856945 | 0.18352955 | 0.26458498 |
| Cdh15 | 1.85084524 | -1.396928 | 1.89845696 | 0.18354196 | 0.26458498 |
| Rab40b | 0.27031794 | 4.03718663 | 1.89820609 | 0.18356964 | 0.26458595 |
| G730013B05 | 0.82000129 | 0.35112344 | 1.89795027 | 0.18359788 | 0.26458771 |
| Nek9 | -0.1602515 | 6.73170943 | 1.8970915 | 0.1836927 | 0.26468541 |
| 1810043H04 | -0.5852583 | 1.96213509 | 1.89547586 | 0.18387125 | 0.26490373 |
| Snx14 | 0.23049867 | 5.44398163 | 1.89482859 | 0.18394285 | 0.2649679 |
| 3830406C13 | -0.2080743 | 6.13628386 | 1.89354875 | 0.18408451 | 0.26513298 |
| Mink1 | 0.24479735 | 5.58742022 | 1.89278523 | 0.18416909 | 0.26519846 |
| Gm4787 | 0.98123257 | 2.161135 | 1.89264951 | 0.18418413 | 0.26519846 |
| Unc5b | 0.41071436 | 2.36938693 | 1.89182976 | 0.184275 | 0.26529031 |
| Mettl2 | 0.3346857 | 4.13577789 | 1.89136911 | 0.18432608 | 0.26532486 |
| Cd14 | -0.10115714 | -0.0168069 | 1.89069098 | 0.18440132 | 0.26539416 |
| Mospd2 | 0.22421287 | 5.1513818 | 1.88947871 | 0.18453592 | 0.26550428 |
| Casp1 | -0.5774539 | 1.62809504 | 1.88917228 | 0.18456996 | 0.26550428 |
| Fam50a | -0.3201352 | 4.12554342 | 1.88912512 | 0.1845752 | 0.26550428 |
| 1700123O20 | -0.3156337 | 3.87720246 | 1.88902559 | 0.18458626 | 0.26550428 |
| 6230400D17 | 0.94066025 | 0.25397357 | 1.88732177 | 0.18477569 | 0.26573774 |
| Cdh2 | 0.2537119 | 6.47293761 | 1.8865159 | 0.18485027 | 0.26577539 |
| Hras | -0.3293489 | 5.0526213 | 1.88659889 | 0.18486514 | 0.26577539 |
| 5530401A14 | 0.8641187 | 0.01836977 | 1.88594287 | 0.18492198 | 0.26584139 |
| Ttc25 | 1.1196854 | -0.1515874 | 1.88516099 | 0.18501629 | 0.26592757 |
| Fuc1a | 0.30603849 | 5.15110516 | 1.88372421 | 0.18517648 | 0.26609524 |
| Flrt2 | 0.16973059 | 7.45037819 | 1.88345616 | 0.18520638 | 0.26609524 |
| Srgap3 | 0.25272633 | 9.0810211 | 1.88338403 | 0.18521443 | 0.26609524 |
| Apbb1 | -0.2111991 | 5.52168404 | 1.88263609 | 0.18529791 | 0.26617613 |
| Car12 | 0.35695672 | 3.31071986 | 1.88210875 | 0.1853568 | 0.26620235 |
| Sik3 | 0.20543239 | 7.39081185 | 1.88198591 | 0.18537052 | 0.26620235 |
| Mcm6 | -0.2580507 | 3.64528183 | 1.8811685 | 0.18546185 | 0.26629447 |
| E030003E18 | -0.377593 | 2.39681955 | 1.88074853 | 0.1855088 | 0.26632284 |
| Copa | 0.20308489 | 7.7765974 | 1.87984968 | 0.18560932 | 0.2664099 |
| Commd9 | -0.4826804 | 2.15963691 | 1.87949436 | 0.18564908 | 0.2664099 |
| Selk | -0.2417057 | 6.15916449 | 1.87947693 | 0.18565103 | 0.2664099 |
| B3galt2 | 0.27270955 | 5.41767912 | 1.8771858 | 0.18590765 | 0.26670861 |
| Lman2 | 0.21178436 | 5.61149008 | 1.87713225 | 0.18591365 | 0.26670861 |
| Xirp2 | 0.58505267 | 2.38411212 | 1.8768723 | 0.18594279 | 0.26671136 |
| Rev1 | -0.2207167 | 4.38275609 | 1.87508841 | 0.18614294 | 0.26692063 |
| Rrad | -1.4951333 | -1.112327 | 1.87508246 | 0.18614361 | 0.26692063 |
| Hrip3 | 0.1961159 | 5.06218827 | 1.87457461 | 0.18620064 | 0.26692063 |
| Pigk | 0.26943565 | 5.13219269 | 1.87456142 | 0.18620213 | 0.26692063 |
| Phf1 | 0.45602212 | 2.86487896 | 1.87435831 | 0.18622494 | 0.26692063 |
| Plcb3 | -0.3218498 | 4.33601191 | 1.87371701 | 0.186297 | 0.26698485 |
| Vapa | -0.1793127 | 7.18529711 | 1.87295964 | 0.18638214 | 0.26702376 |
| Gene   | Value1     | Value2     | Value3     | Value4     | Value5     | Value6     |
|--------|------------|------------|------------|------------|------------|------------|
| Cd8a   | -0.6504506 | 0.35350132 | 1.87264846 | 0.18641714 | 0.26702376 |
| Pard6a | -0.5417716 | 2.15301672 | 1.87246966 | 0.18643725 | 0.26702376 |
| Noa1   | -0.2137342 | 4.42358664 | 1.872378   | 0.18644756 | 0.26702376 |
| Pglyrp1| 0.6288132  | 0.74415633 | 1.87226343 | 0.18646045 | 0.26702376 |
| Plekho1| -0.2660126 | 4.03851156 | 1.87109464 | 0.18659201 | 0.2671731 |
| Ccdd14 | -1.0764671 | 0.152478   | 1.87065626 | 0.18664139 | 0.26720474 |
| Bloc1s4 | -0.379396  | 4.26340494 | 1.86900361 | 0.18682767 | 0.2673799 |
| Tymph  | -0.4917929 | 2.53864225 | 1.86891422 | 0.18683775 | 0.2673799 |
| Nisch  | 0.19098262 | 7.36849888 | 1.86884442 | 0.18684563 | 0.2673799 |
| Pomgnt2| -0.4406852 | 2.41069811 | 1.86821988 | 0.18691609 | 0.26743206 |
| Uqcr11  | -0.3995867 | 4.69448431 | 1.8680025  | 0.18694062 | 0.26743206 |
| Slfn5  | 0.3304323  | 4.46679279 | 1.86779556 | 0.18696938 | 0.26743206 |
| 4930447C04r | 0.66412753 | 2.03600287 | 1.86718311 | 0.18703314 | 0.26748604 |
| Tmem201 | 0.33317489 | 3.96789872 | 1.86680997 | 0.1870529  | 0.26748604 |
| Srm    | -0.2810176 | 4.05505289 | 1.86666899 | 0.18709121 | 0.26748604 |
| Smndc1 | -0.2453109 | 5.33377647 | 1.86649433 | 0.18711095 | 0.26748604 |
| Cactin | -0.3605784 | 3.17297834 | 1.86485407 | 0.18729641 | 0.26767751 |
| Pf4    | 0.488389   | 1.95490093 | 1.8648264  | 0.18729954 | 0.26767751 |
| 2610027K06|1.20118403 | -0.8805224 | 1.86445169 | 0.18734194 | 0.26768595 |
| Lrcc32 | -0.334391  | 4.80677595 | 1.8642912  | 0.1873601  | 0.26768595 |
| Zfp655 | 0.19280476 | 5.7401676  | 1.86273521 | 0.18753632 | 0.26789864 |
| Nr4a2  | 0.55739884 | 6.88908107 | 1.86206197 | 0.18761263 | 0.26796294 |
| Vwc2l  | 0.37140214 | 3.42519573 | 1.86185546 | 0.18763604 | 0.26796294 |
| Calcoco2 | 0.74275301 | -0.0155403 | 1.86147656 | 0.18767901 | 0.26796824 |
| Muc15  | 0.66004932 | 2.10105816 | 1.86134031 | 0.18769447 | 0.26796824 |
| Adn2p  | 0.25716962 | 4.66110951 | 1.85997265 | 0.18784969 | 0.26815076 |
| Wd95   | -1.8060194 | -1.3915746 | 1.85844887 | 0.18802281 | 0.26835879 |
| Gabrb3 | 0.22247267 | 8.62854624 | 1.85516264 | 0.18839686 | 0.26882071 |
| Popdc3 | 1.39201526 | -0.7530781 | 1.85512327 | 0.18840134 | 0.26882071 |
| Acta1  | -0.6250555 | 0.90019356 | 1.85463094 | 0.18845746 | 0.26883471 |
| Isg15  | -0.4612924 | 1.64213574 | 1.85455567 | 0.18846604 | 0.26883471 |
| Nfx1   | 0.16399402 | 6.44274509 | 1.8532711  | 0.18861257 | 0.26900455 |
| Cbr3   | -0.3865122 | 2.12842456 | 1.85267449 | 0.18868067 | 0.26901471 |
| Peg13  | -0.1859805 | 8.15164275 | 1.85261318 | 0.18868767 | 0.26901471 |
| Spi1   | -0.7923342 | 0.49073913 | 1.85248697 | 0.18870208 | 0.26901471 |
| Prgr1  | 0.40639988 | 2.50080234 | 1.85167713 | 0.18879459 | 0.26910742 |
| Psmb11 | 0.61766108 | 1.33147065 | 1.85089756 | 0.18888369 | 0.26919524 |
| Caap1  | -0.3136648 | 2.76923956 | 1.85018629 | 0.18896503 | 0.26922049 |
| Podxl2 | -0.4832334 | 2.17688717 | 1.84972448 | 0.18901786 | 0.26922049 |
| Ak2    | -0.2458757 | 5.97679673 | 1.84972196 | 0.18901815 | 0.26922049 |
| 281001G20| -0.4058694 | 4.81931109 | 1.84946912 | 0.18904708 | 0.26922049 |
| Serpinb8| 0.41454372 | 3.40522974 | 1.84912706 | 0.18908624 | 0.26922049 |
| Tmem248| -0.1995956 | 5.76332469 | 1.84909544 | 0.18908986 | 0.26922049 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 |
|--------|--------|--------|--------|--------|--------|
| Scl4a7 | 0.2912 | 3.9139 | 1.8490 | 0.1890 | 0.2692 |
| Xpo1   | 0.1823 | 6.5537 | 1.8474 | 0.1893 | 0.2694 |
| Atp2c2 | -0.8405 | 2.5408 | 0.1894 | 0.2695 |
| Cdc42bpb | 0.2193 | 6.5366 | 0.1893 | 0.2694 |
| Ccs    | -0.4387 | 2.1360 | 0.1894 | 0.2694 |
| Cse1l  | 0.1644 | 6.7264 | 0.1895 | 0.2695 |
| Itgam  | 0.3647 | 3.5594 | 0.1896 | 0.2695 |
| Mcat   | -0.4079 | 2.5408 | 0.1895 | 0.2695 |
| Slfn3  | 1.3809 | -0.2510 | 0.1895 | 0.2695 |
| Nuak1  | -0.2355 | 5.1928 | 0.1895 | 0.2695 |
| 9330188P03Rik | 0.9494 | 0.9898 | 0.1896 | 0.2696 |
| Samsn1 | 0.7483 | 0.6214 | 0.1896 | 0.2696 |
| Bst2   | -0.7977 | 1.6109 | 0.1896 | 0.2696 |
| Themis2 | -0.6597 | 1.6124 | 0.1896 | 0.2696 |
| Nucb2  | 0.2098 | 5.2627 | 0.1897 | 0.2697 |
| Sall2  | 0.2043 | 5.7374 | 0.1897 | 0.2697 |
| Capn2  | -0.2075 | 7.1531 | 0.1897 | 0.2697 |
| Dnaic12 | -0.3459 | 3.6172 | 0.1897 | 0.2697 |
| Marveld2 | -1.0468 | 0.6257 | 0.1897 | 0.2697 |
| Kcnb2  | 0.2477 | 5.2841 | 0.1897 | 0.2697 |
| Slc4a8 | 0.3059 | 6.8435 | 0.1898 | 0.2698 |
| Wisp1  | -0.3993 | 1.9488 | 0.1898 | 0.2698 |
| Abcg2  | -0.2749 | 5.2146 | 0.1898 | 0.2698 |
| 9430016H08 | -0.3100 | 3.4955 | 0.1898 | 0.2698 |
| Cgnl1  | -0.2370 | 6.0709 | 0.1898 | 0.2698 |
| Klhl38 | -1.0149 | 0.0473 | 0.1898 | 0.2698 |
| Zfx    | -0.2064 | 6.2246 | 0.1898 | 0.2698 |
| Ephb4  | 0.5100 | 3.2417 | 0.1899 | 0.2699 |
| Tigd5  | 0.8002 | 0.6606 | 0.1900 | 0.2700 |
| Pofut1 | 0.2091 | 3.3643 | 0.1900 | 0.2700 |
| Clasp2 | 0.1778 | 8.0401 | 0.1900 | 0.2700 |
| Ppp1r1a | -0.3014 | 7.0659 | 0.1900 | 0.2700 |
| St7l   | -0.3037 | 4.2271 | 0.1900 | 0.2700 |
| Neb    | 0.6312 | 2.5539 | 0.1900 | 0.2700 |
| Bcl2l12 | 0.8011 | 0.2354 | 0.1900 | 0.2701 |
| Thnsl2 | 0.4298 | 1.5974 | 0.1900 | 0.2701 |
| Spats2l | -0.1936 | 5.0904 | 0.1900 | 0.2701 |
| Slc9a5 | 0.4345 | 2.6018 | 0.1900 | 0.2701 |
| Tbx20  | 1.3154 | -1.4327 | 0.1900 | 0.2702 |
| Klrg1  | -2.7556 | -2.0796 | 0.1900 | 0.2702 |
| Nars2  | 0.3370 | 3.8388 | 0.1900 | 0.2702 |
| Atp11c | 0.2687 | 4.6841 | 0.1900 | 0.2702 |
| Fus    | 0.2795 | 5.9425 | 0.1900 | 0.2702 |
| Gene    | Log2FoldChange | Pearson Correlation | q-value   |
|---------|----------------|---------------------|-----------|
| Ppp1r42 | -1.1203533     | 0.83201232          | 0.19105817 | 0.2703277 |
| Tpd52l2 | -0.2783349     | 0.83156438          | 0.19111012 | 0.27032856|
| Bend5   | -0.3322881     | 0.83148586          | 0.19111923 | 0.27032856|
| Tyw1    | 0.54106327     | 0.83129332          | 0.1911457  | 0.27032856|
| Tmem45a | 0.51677547     | 0.82995304          | 0.19121186 | 0.27043146|
| Prol3   | 0.54767458     | 0.82947728          | 0.19135242 | 0.27046539|
| Eprs    | 0.15568058     | 0.82865579          | 0.19144789 | 0.27046539|
| Fbxl12  | -0.3322881     | 0.82833772          | 0.19148487 | 0.27046539|
| Pram1   | 0.6320152      | 0.82763663          | 0.19151776 | 0.27046539|
| Itgb3bp | 0.44714052     | 0.82760883          | 0.19156965 | 0.27046539|
| Fam13b  | -0.1536333     | 0.82676671          | 0.19166766 | 0.27046539|
| Tstd3   | -0.2206334     | 0.82670922          | 0.19176388 | 0.27046539|
| Ccr1l   | -0.6401085     | 0.82594056          | 0.19177531 | 0.27046539|
| Cccdc65 | -0.4539812     | 0.82584243          | 0.19179243 | 0.27046539|
| Cib2    | -0.5880665     | 0.82584243          | 0.19179243 | 0.27046539|
| Nr1h4   | 1.49410338     | 0.82584243          | 0.19179243 | 0.27046539|
| Snx19   | 0.2774264      | 0.82584243          | 0.19179243 | 0.27046539|
| Gm21119 | -0.708459      | 0.82584243          | 0.19179243 | 0.27046539|
| 1700040L02Rik | 0.71883335 | 0.82584243          | 0.19179243 | 0.27046539|
| Tmem189 | -0.3782574     | 0.82584243          | 0.19179243 | 0.27046539|
| Tmem208 | 0.41644688     | 0.82584243          | 0.19179243 | 0.27046539|
| Brca2   | 0.27984402     | 0.82584243          | 0.19179243 | 0.27046539|
| Entpd5  | 0.23689358     | 0.82584243          | 0.19179243 | 0.27046539|
| Tspyl2  | 0.21811739     | 0.82584243          | 0.19179243 | 0.27046539|
| Lyve1   | 0.47169343     | 0.82584243          | 0.19179243 | 0.27046539|
| Lekr1   | -0.3773738     | 0.82584243          | 0.19179243 | 0.27046539|
| Dzip1   | 0.17390833     | 0.82584243          | 0.19179243 | 0.27046539|
| Scl16a10| -0.359449      | 0.82584243          | 0.19179243 | 0.27046539|
| Aes     | 0.2341929      | 0.82584243          | 0.19179243 | 0.27046539|
| Zfp385c | 0.45614168     | 0.82584243          | 0.19179243 | 0.27046539|
| Atp8b5  | 1.32372539     | 0.82584243          | 0.19179243 | 0.27046539|
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|-------|--------|--------|--------|--------|--------|--------|
| Fam189b | 0.25491775 | 4.60001513 | 1.81211384 | 0.19338306 | 0.27192818 |
| Clec2d | -0.5169471 | 2.1306809 | 1.81111417 | 0.19350078 | 0.27204426 |
| Gpank1 | -0.5397106 | 2.00662254 | 1.81094129 | 0.19352115 | 0.27204426 |
| Ung | 0.49614964 | 2.10678737 | 1.81065406 | 0.19355499 | 0.27205279 |
| Wbp5 | -0.2595255 | 6.62007551 | 1.80989836 | 0.19364408 | 0.27211679 |
| Sv2a | 0.23088737 | 5.86958726 | 1.80979655 | 0.19365608 | 0.27211679 |
| Gucy1a2 | 0.28664422 | 7.95296243 | 1.80920878 | 0.19372541 | 0.27215035 |
| Lamc3 | 0.4034498 | 2.59835371 | 1.80912299 | 0.19373553 | 0.27215035 |
| Stk38 | 0.21054571 | 4.80460911 | 1.80859746 | 0.19379755 | 0.27219843 |
| Gga3 | 0.20437637 | 5.38664136 | 1.8074342 | 0.19393491 | 0.27233707 |
| Vangl1 | 0.37719761 | 3.81104559 | 1.80729075 | 0.19395186 | 0.27233707 |
| B3gat3 | -0.329214 | 3.19066001 | 1.80680832 | 0.19400887 | 0.27237586 |
| Hook3 | 0.15833334 | 8.61231605 | 1.80658641 | 0.1940351 | 0.27237586 |
| Pydc3 | 0.77098962 | 0.73469597 | 1.80570657 | 0.19413914 | 0.27244526 |
| Fbxw15 | 1.25869648 | -0.9967257 | 1.80569789 | 0.19414017 | 0.27244526 |
| Oxsm | -0.389628 | 3.16295024 | 1.80532292 | 0.19418453 | 0.27246511 |
| Khyn | 0.31515464 | 2.936284 | 1.80510818 | 0.19420994 | 0.27246511 |
| Snw1 | -0.1810907 | 6.48926014 | 1.80449848 | 0.19428212 | 0.27246905 |
| Hps6 | 0.55007123 | 1.04465059 | 1.80447591 | 0.19428479 | 0.27246905 |
| Rpl31-ps12 | -0.261999 | 4.06261921 | 1.80437954 | 0.1942962 | 0.27246905 |
| Adnp | 0.16949736 | 7.86024029 | 1.80404178 | 0.1943362 | 0.27248613 |
| H2-Ke2 | -0.3573248 | 3.77446252 | 1.80235552 | 0.19453605 | 0.27268302 |
| Spata24 | -0.7898977 | 0.34077621 | 1.80234652 | 0.19453712 | 0.27268302 |
| Kifc2 | 0.20166316 | 6.32616462 | 1.80215245 | 0.19456013 | 0.27268302 |
| Zfp334 | 0.19014718 | 4.89297415 | 1.8015989 | 0.1946258 | 0.27273603 |
| Hist1h2bk | -1.2768471 | -1.1580995 | 1.80066274 | 0.19473693 | 0.27285272 |
| Sod1 | -0.2904379 | 8.00215232 | 1.79971155 | 0.19484992 | 0.27294885 |
| Tbc1d15 | 0.20067912 | 5.20688553 | 1.79961603 | 0.19486127 | 0.27294885 |
| Crot | 0.19322593 | 5.34776257 | 1.79936746 | 0.19489081 | 0.2729512 |
| Ap2a1 | 0.27718701 | 4.06991428 | 1.79912472 | 0.19491967 | 0.27295259 |
| Zfp617 | -0.1992153 | 5.81358953 | 1.79865648 | 0.19497535 | 0.27299153 |
| Ccdc86 | -0.3933449 | 2.91362023 | 1.79788949 | 0.19506659 | 0.27307913 |
| Zbtb5 | 0.37255147 | 2.58687091 | 1.79736159 | 0.19512942 | 0.27307913 |
| Jsd1 | -0.1817081 | 5.03477143 | 1.79729105 | 0.19513781 | 0.27307913 |
| Fam166b | -1.1913141 | -0.4522952 | 1.7969807 | 0.19517477 | 0.27307913 |
| Tead2 | -0.4639617 | 2.48379968 | 1.79695941 | 0.1951773 | 0.27307913 |
| Map3k4 | 0.2401082 | 4.98220469 | 1.79655042 | 0.19522601 | 0.27309012 |
| Per2 | 0.26596044 | 5.05396561 | 1.79580058 | 0.19531536 | 0.27309012 |
| Dusp16 | -0.2827095 | 4.92493437 | 1.7955027 | 0.19535086 | 0.27309012 |
| Pou6f2 | -0.6008093 | 1.93296602 | 1.79536532 | 0.19536724 | 0.27309012 |
| Pdss2 | -0.2745729 | 3.1149329 | 1.79507858 | 0.19540143 | 0.27309012 |
| Npy5r | 0.7156028 | 0.98837721 | 1.7949163 | 0.19541776 | 0.27309012 |
| Rfx3 | 0.27744051 | 7.27365649 | 1.79462529 | 0.19545549 | 0.27309012 |
| Gene    | SPRD  | SPRD2 | SPRD3 | SPRD4 | SPRD5 | SPRD6 |
|---------|-------|-------|-------|-------|-------|-------|
| Sspo    | 1.82022332 | -1.2452705 | 1.79449136 | 0.19547147 | 0.27309012 |
| 6430584L05f | 0.36011862 | 3.02541422 | 1.79428055 | 0.19549662 | 0.27309012 |
| Alkbh2  | -0.569541  | 1.16747695 | 1.79419461 | 0.19550688 | 0.27309012 |
| Zfp248  | 0.27007783 | 4.558211  | 1.79413415 | 0.19551409 | 0.27309012 |
| Csnk1a1 | -0.1338162 | 7.62192174 | 1.79408706 | 0.19551971 | 0.27309012 |
| Wrnip1  | -0.2276183 | 5.40301787 | 1.79378518 | 0.19555574 | 0.2731015 |
| 6430531B16 | 1.40029218 | -0.6821775 | 1.79289246 | 0.19566234 | 0.273184 |
| Fau     | -0.3271927 | 5.68970486 | 1.79283237 | 0.19567059 | 0.273184 |
| Tbc1d8  | 0.33275097 | 4.20495322 | 1.79214157 | 0.19575206 | 0.27325879 |
| 1700071K01i | 1.54019165 | -0.3649096 | 1.79149374 | 0.19582951 | 0.27330023 |
| Zfp160  | 0.24361112 | 4.46987999 | 1.79142644 | 0.19583755 | 0.27330023 |
| Cep170  | 0.21404929 | 7.48685712 | 1.79063342 | 0.19593241 | 0.27339366 |
| Sulf2   | 0.17133707 | 6.53957386 | 1.78945278 | 0.19607374 | 0.27354149 |
| Fam102b | -0.1594917 | 5.84785971 | 1.78928195 | 0.1960942  | 0.27354149 |
| Ppan    | -0.521779 | 1.68015532 | 1.78801827 | 0.19624564 | 0.27370418 |
| Ankub1  | 0.92747676 | 0.64183141 | 1.78784246 | 0.19626672 | 0.27370418 |
| Wwox    | -0.2483252 | 4.0488127  | 1.78729108 | 0.19633285 | 0.27375742 |
| Zpr1    | -0.2220097 | 4.3602774  | 1.7860606  | 0.19648052 | 0.27392434 |
| E130006D01 | -1.6383266 | -2.0148907 | 1.78542813 | 0.19655648 | 0.27399125 |
| Strbp   | 0.22584105 | 9.34693261 | 1.78495672 | 0.19661312 | 0.2740312 |
| Id3     | -0.3982239 | 6.0191475  | 1.78470596 | 0.19664326 | 0.27403422 |
| Clnk    | 1.2179783 | -0.6436547  | 1.78384097 | 0.19674726 | 0.27414015 |
| Trappc10 | 0.18269643 | 5.8965905 | 1.78353643 | 0.19678389 | 0.27415176 |
| Chka    | 0.24788702 | 4.53753609 | 1.78330636 | 0.19681157 | 0.27415176 |
| Adora2a | 0.73613298 | 1.89798399 | 1.78303374 | 0.19684438 | 0.27415847 |
| Tclcd2  | 0.45336735 | 1.37738879 | 1.78157883 | 0.19701957 | 0.27432061 |
| Dnajb13 | -1.5708653 | -1.4063093 | 1.78139422 | 0.19704182 | 0.27432061 |
| Rest    | -0.2934968 | 4.90144498 | 1.78118582 | 0.19706693 | 0.27432061 |
| Cyc1    | -0.245787 | 6.32295405 | 1.78113701 | 0.19707281 | 0.27432061 |
| Mapk8ip2 | 0.43670166 | 4.63969142 | 1.78007218 | 0.1972012 | 0.27442447 |
| Enkur   | -0.4381406 | 2.14024953 | 1.77979557 | 0.19723457 | 0.27442447 |
| Cenpw   | -0.5476862 | 1.57348839 | 1.77966027 | 0.19725089 | 0.27442447 |
| 4933400F21f | 0.83658865 | 1.22189907 | 1.77958903 | 0.19725949 | 0.27442447 |
| Pik3c2a | 0.17651673 | 6.15002745 | 1.77877193 | 0.19735812 | 0.27451069 |
| Zscan25 | -1.4254664 | -0.360117 | 1.77848045 | 0.19739331 | 0.27451069 |
| C130026L21f | 0.63490044 | 1.06076622 | 1.77817617 | 0.19743006 | 0.27451069 |
| Nudt6   | -0.3169686 | 3.73599888 | 1.77814718 | 0.19743357 | 0.27451069 |
| Plekhd1 | -1.337403 | -1.030758 | 1.77741469 | 0.19752207 | 0.27457877 |
| Speer7-ps1 | 0.79667645 | 0.64711457 | 1.77727806 | 0.19753859 | 0.27457877 |
| Sesn3   | 0.17909912 | 6.09215675 | 1.77650757 | 0.19763175 | 0.27466929 |
| B230206H07 | 1.74421373 | -1.6970281 | 1.77518273 | 0.19779207 | 0.27482931 |
| Mir377  | 1.45378584 | -0.8233461 | 1.77509241 | 0.19780301 | 0.27482931 |
| Arl4d   | -0.4325176 | 2.09657324 | 1.77401901 | 0.19793303 | 0.27497096 |
| Gene   | 03-Sep   | 04-Sep   | 05-Sep   | 06-Sep   | 07-Sep   | 08-Sep   | 09-Sep   | 10-Sep   | 11-Sep   | 12-Sep   | 13-Sep   | 14-Sep   | 15-Sep   | 16-Sep   | 17-Sep   | 18-Sep   | 19-Sep   | 20-Sep   |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Oaz3   | 0.49670822 | 2.23339133 | 1.77364997 | 0.19797775 | 0.27499409 |
| Esrrg  | -0.2920502 | 6.04331139 | 1.77292735 | 0.19806537 | 0.27504388 |
| Hist2h4 | -0.8080242 | 0.30175153 | 1.77277589 | 0.19808374 | 0.27504388 |
| Dpf1   | 0.41801841 | 2.26390189 | 1.77265966 | 0.19809784 | 0.27504388 |
| Pla2g16 | -0.2926594 | 6.73766589 | 1.77226589 | 0.19814561 | 0.27507123 |
| Rbck1  | -0.2617 | 4.11843858 | 1.77016597 | 0.19840062 | 0.27524438 |
| Tsc2d3 | -0.3199482 | 6.56716066 | 1.76995909 | 0.19842577 | 0.27524438 |
| Agfg1  | -0.1616811 | 5.82001065 | 1.76948027 | 0.19848398 | 0.27524438 |
| Khi34  | 0.45347368 | 5.45597322 | 1.76916866 | 0.19851845 | 0.27524438 |
| H2-D1  | -0.2737433 | 5.17764564 | 1.76893043 | 0.19855086 | 0.27524438 |
| Kcn2   | 0.76160285 | 0.29275489 | 1.7688261 | 0.19856355 | 0.27524438 |
| Rassf6 | -0.8050514 | 0.63128141 | 1.76878579 | 0.19856846 | 0.27524438 |
| Tgfbr2 | -0.2864854 | 5.70117988 | 1.76870125 | 0.19857874 | 0.27524438 |
| Ralbp1 | -0.1606246 | 6.77749448 | 1.7685363 | 0.19859881 | 0.27524438 |
| Ttl9   | 2.08177815 | -1.3124561 | 1.76853127 | 0.19859942 | 0.27524438 |
| Flad1  | 0.44120992 | 2.04431352 | 1.76852979 | 0.19859961 | 0.27524438 |
| Ddx60  | 0.6557228 | 1.88541566 | 1.76834816 | 0.19862171 | 0.27524438 |
| Plac9b | -0.3547437 | 3.93696673 | 1.76823371 | 0.19863564 | 0.27524438 |
| Kdm2a  | 0.15929649 | 7.17003186 | 1.76731797 | 0.19874714 | 0.27535993 |
| Zfp599 | 0.37798631 | 2.83120872 | 1.76697402 | 0.19878904 | 0.27537903 |
| Hist1h4k | -0.4633424 | 1.94575363 | 1.76663253 | 0.19883065 | 0.27539773 |
| Lyrm9  | 0.18987766 | 5.68993301 | 1.76627489 | 0.19887424 | 0.27541916 |
| H2afv  | -0.3341922 | 5.31528394 | 1.76561492 | 0.19895471 | 0.27549165 |
| Wnk3   | 0.2477977 | 6.92545557 | 1.7646045 | 0.19907799 | 0.27562339 |
| Gtf2b  | -0.2329408 | 4.83713545 | 1.7641746 | 0.19913047 | 0.27565709 |
| Ankrd49 | -0.2977939 | 4.93883628 | 1.7631437 | 0.19925639 | 0.27579242 |
| Gm2027 | 0.81696645 | 0.23977782 | 1.76245589 | 0.19934045 | 0.2758698 |
| Parp16 | -0.7765357 | 1.90198188 | 1.76132028 | 0.19947935 | 0.27602302 |
| Pcdh20 | 0.37322261 | 3.064212 | 1.76066647 | 0.19955937 | 0.2760863 |
| Lsamp  | 0.30712836 | 5.43219533 | 1.76048609 | 0.19958145 | 0.2760863 |
| BC005561 | 0.33729308 | 5.15199396 | 1.75881774 | 0.19978586 | 0.27620674 |
| Mrps24 | -0.3351898 | 3.95201043 | 1.75877682 | 0.19979088 | 0.27620674 |
| Serp2  | -0.3127392 | 3.78297655 | 1.75871965 | 0.19979788 | 0.27620674 |
| Rbp1   | -0.4103106 | 7.75562961 | 1.75870327 | 0.19979989 | 0.27620674 |
| Gm15698 | 2.01967034 | -1.4406106 | 1.75862488 | 0.1998095 | 0.27620674 |
| Tnfsf9 | 1.70703149 | -2.0132422 | 1.75659198 | 0.20005896 | 0.27651256 |
| Ing1   | -0.2621882 | 4.90266404 | 1.7558297 | 0.2001526 | 0.27660295 |
| Khdbs1 | 0.15790091 | 6.94592177 | 1.755095 | 0.20024291 | 0.27667085 |
| Chrna7 | 0.60270373 | 1.221174 | 1.75471838 | 0.20028922 | 0.27667085 |
| Necab1 | -0.1771647 | 7.85856048 | 1.75422188 | 0.20035029 | 0.27667085 |
| Ovca2  | -0.2946778 | 3.35314287 | 1.75402049 | 0.20037507 | 0.27667085 |
| Gdnf   | 1.03035411 | -0.5461555 | 1.75345863 | 0.20044422 | 0.27667085 |
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Dip2b   | 0.22499303 | 7.80946321 | 1.75327083 | 0.20046734 | 0.27667085 |
| 5830417I10R | 0.2351137 | 6.11099523 | 1.75316801 | 0.20048383 | 0.27667085 |
| Akap7   | -0.1936364 | 6.50819349 | 1.75316961 | 0.20048383 | 0.27667085 |
| Xk      | 0.27582462 | 5.23281007 | 1.75313406 | 0.20048418 | 0.27667085 |
| Gpr52   | 0.47884695 | 1.71756204 | 1.75220185 | 0.20059901 | 0.27679031 |
| Cyp5r3  | -0.3676172 | 7.41204742 | 1.75167384 | 0.20066409 | 0.27684111 |
| 5730508B09 | -0.3608203 | 2.79684429 | 1.75131877 | 0.20070786 | 0.27685979 |
| Gm16677 | -1.5071838 | -1.2552854 | 1.75110556 | 0.20073416 | 0.27685979 |
| Hrk     | -0.3332908 | 4.09783662 | 1.7503822 | 0.20082339 | 0.27693428 |
| A630001G21 | -0.8665746 | 0.62575873 | 1.74976532 | 0.20089953 | 0.27693428 |
| Hnf1b   | 1.42239527 | -0.7988781 | 1.74974197 | 0.20090241 | 0.27693428 |
| 4931406P16l | 0.19491829 | 5.65674613 | 1.74961073 | 0.20091861 | 0.27693428 |
| Gab3    | 0.3521619 | 2.77288416 | 1.74942864 | 0.20094111 | 0.27693428 |
| Gpr98   | 0.43562302 | 2.82382447 | 1.7492934 | 0.2009578 | 0.27693428 |
| Stab1   | 0.70197692 | 1.19212054 | 1.74846832 | 0.20105972 | 0.27703577 |
| Elfn1   | 0.32317663 | 4.83375736 | 1.74797561 | 0.20112062 | 0.27704754 |
| 2310068J16F | -1.2990324 | -0.8089933 | 1.74753354 | 0.20117528 | 0.27704754 |
| Insrr   | 0.9701116 | 0.39472325 | 1.74726011 | 0.2012091 | 0.27704754 |
| Osb2    | -0.212012 | 5.65116238 | 1.74689756 | 0.20125395 | 0.27704754 |
| Gsdma   | -2.3274498 | -2.0985064 | 1.74687085 | 0.20125725 | 0.27704754 |
| Mitf    | 0.28453549 | 3.67275615 | 1.74677828 | 0.20126871 | 0.27704754 |
| Ccny    | -0.1714409 | 8.53740711 | 1.74645674 | 0.2013085 | 0.27704754 |
| Adam28  | 0.75977753 | 0.2058532 | 1.74635734 | 0.2013208 | 0.27704754 |
| Creb1   | -0.131072 | 7.03094245 | 1.74625772 | 0.20133313 | 0.27704754 |
| Phospho2 | -0.2234938 | 5.00546569 | 1.74549622 | 0.20142742 | 0.27704754 |
| Gucy2e  | 0.52072329 | 1.54458021 | 1.74547625 | 0.20142898 | 0.27704754 |
| Gm608   | 0.17985118 | 8.24058658 | 1.74545364 | 0.2014327 | 0.27704754 |
| Rps18   | -0.3805694 | 6.22385773 | 1.7454188 | 0.20143701 | 0.27704754 |
| S1c25a1 | 0.15365942 | 6.87552165 | 1.74502561 | 0.20148572 | 0.27704754 |
| Irf5    | 0.68636541 | 0.96066234 | 1.7449707 | 0.20149252 | 0.27704754 |
| Mcoln1  | 0.35080206 | 2.92515908 | 1.74451633 | 0.20154883 | 0.27708607 |
| Magohb  | -0.3822917 | 2.81648979 | 1.74403831 | 0.2016081 | 0.27712865 |
| Stip1   | -0.1523113 | 7.04168692 | 1.74296084 | 0.20174176 | 0.2772347 |
| Tmem216  | -0.3364357 | 2.85697965 | 1.74238606 | 0.2018131 | 0.27732621 |
| Arhgap31 | -0.2181395 | 6.53570096 | 1.74134688 | 0.20194217 | 0.27747105 |
| Myadm12  | 0.84849393 | 0.67170072 | 1.74034967 | 0.20206613 | 0.27758054 |
| 5830416I19R | -1.8343582 | -0.9376962 | 1.74024994 | 0.20207853 | 0.27758054 |
| Mettl7a3 | 1.15290146 | -1.7645304 | 1.73953447 | 0.20216753 | 0.27766385 |
| Ccdd88b  | -0.6871258 | 0.13683675 | 1.73897881 | 0.20223668 | 0.27768692 |
| AF529169  | 0.58883877 | 1.49854143 | 1.73894393 | 0.20224103 | 0.27768692 |
| Kcmf1   | -0.1726858 | 7.50021097 | 1.73754693 | 0.20241502 | 0.27779177 |
| Sbf2    | 0.18540222 | 7.08779668 | 1.73754397 | 0.20241539 | 0.27779177 |
| Bambi-ps1 | -1.2188598 | -0.9567035 | 1.73720176 | 0.20245805 | 0.27779177 |
| Gene   | Value 1 | Value 2 |
|--------|---------|---------|
| Fbxw11 | -0.168152 | 7.36807432 |
| Gm14325 | -0.2080808 | 4.34187906 |
| Fmn2   | 0.27512483 | 6.65774574 |
| Xrcc5  | -0.2681018 | 4.92129584 |
| Tecpr1 | 0.36539973 | 3.46884039 |
| Ggct   | -0.2805431 | 4.48865281 |
| Gl2    | 0.32462442 | 3.37357665 |
| Mbd1   | 0.2024498 | 5.66318019 |
| Cyp4x1 | 0.55821686 | 0.99608208 |
| Tssk2  | 2.06580933 | -1.7611136 |
| Map3k2 | 0.17396928 | 6.20693347 |
| Scp2   | -0.2974153 | 7.10915731 |
| Rpl18  | -0.3512883 | 5.80811809 |
| F1s    | -0.2599889 | 3.99027107 |
| 4931429I11R | 0.97853008 | -0.0218343 |
| Nudt9  | -0.2601922 | 5.37527833 |
| Fam178b | -1.4563495 | -1.1721613 |
| Folh1  | 0.51740351 | 1.91520935 |
| Rpsud1 | -0.2783128 | 2.98295012 |
| Arpp21 | 0.18874749 | 8.75965728 |
| Setd1a | 0.21665161 | 5.5857919 |
| Gltscr1 | -0.2531971 | 4.38183036 |
| Ash1l  | 0.18016273 | 9.15914459 |
| llr1   | 0.14460452 | 6.53281379 |
| Katna1 | -0.3605923 | 3.60927627 |
| Apba2  | -0.2391121 | 4.81600432 |
| Scrt2  | 0.29363774 | 3.3500913 |
| Olfr1372-ps1 | -0.9045879 | -0.054429 |
| Zccch12 | 0.25269079 | 4.29286974 |
| Tmem167 | -0.1848602 | 6.42597284 |
| Rab6a  | -0.1460394 | 10.1161715 |
| Ckfk   | -0.6101066 | 0.98049407 |
| Clk3   | -0.2198476 | 4.70824977 |
| 4931429L15f | 1.18876575 | -1.1998334 |
| Plkd6  | 1.63759525 | -1.921622 |
| Akip1  | -0.4041627 | 2.97505457 |
| Doc2b  | -0.3550773 | 4.21046912 |
| 1110020A21 | 0.62222356 | 1.0658075 |
| Ccdc109b | -0.5155964 | 1.96654742 |
| Plscr4  | 0.40925049 | 3.14324998 |
| Zfp809  | -0.2029965 | 4.84571026 |
| Slc11  | 0.24792435 | 4.66918407 |
| Sprtn  | 0.44954584 | 1.57573087 |
| Gene          | Value1     | Value2     | Value3     | Value4     | Value5     |
|--------------|-----------|-----------|-----------|-----------|-----------|
| Tmem64       | -0.2539771| 8.87291316| 1.72162128| 0.2044119 | 0.27876046|
| Ube2z        | -0.2208243| 6.14013848| 1.72138384| 0.20444186| 0.27876046|
| Snord91a     | 0.3118708  | 3.26393971| 1.72119144| 0.20446614| 0.27876046|
| Hist1h2bm    | -0.5921    | 1.35635533| 1.72085729| 0.20450832| 0.27876046|
| Pde8b        | 0.20214663| 6.1734771 | 1.72063899| 0.20453589| 0.27876046|
| Egr1         | -0.3259618 | 9.14900846| 1.72055874| 0.20454601| 0.27876046|
| H1fx         | -1.090264  | -1.4640314 | 1.72050952| 0.20455222| 0.27876046|
| Smc4         | 0.22069264 | 6.28417346| 1.72045072| 0.20455965| 0.27876046|
| 1110058L19f  | -0.2337906 | 4.25525354| 1.71929013| 0.20470627| 0.27892146|
| Sertad2      | -0.1985403 | 5.37338932| 1.71864233| 0.20478816| 0.27899424|
| Adams20      | 0.57574347| 2.22272227| 1.71785088| 0.20488827| 0.27905684|
| Phactr2      | -0.1973672 | 8.26110327| 1.71742765| 0.20494183| 0.27905684|
| Pawr         | -0.3841112 | 5.34760824| 1.71721071| 0.20496929| 0.27905684|
| Slfn10-ps    | 1.24777667 | -0.7631627 | 1.71718995| 0.20497192| 0.27905684|
| Orc5         | 0.29312736 | 3.3294651 | 1.71715331| 0.20497656| 0.27905684|
| 1700007G11   | -0.8060413 | 0.29803362| 1.71673313| 0.20502976| 0.27907354|
| Ltb          | 0.49233958 | 2.37578847| 1.71646216| 0.20506408| 0.27907354|
| Fam207a      | -0.3477079 | 3.37033488| 1.71638153| 0.2050743 | 0.27907354|
| Cdk6         | -0.5976592 | 2.18186163| 1.71598119| 0.20512502| 0.27908043|
| Txndc9       | -0.1727243 | 5.80377906 | 1.71589182 | 0.20513634 | 0.27908043 |
| Tpp1         | 0.22834481 | 6.58033688 | 1.71541404 | 0.2051969 | 0.2790964 |
| Selenbp1     | -0.4499633 | 3.05446523 | 1.7153496  | 0.20520507 | 0.2790964 |
| Fam171a2     | -0.3271908 | 2.68908278 | 1.714528   | 0.20530926 | 0.27917782 |
| AW551984     | 0.41259365 | 3.43531085 | 1.71442808 | 0.20532193 | 0.27917782 |
| Kdm5d        | 0.3200412  | 4.88224008 | 1.71395155 | 0.2053824 | 0.27922128 |
| G6b          | 1.6312578  | -1.0109044 | 1.71288842 | 0.20551738 | 0.27936601 |
| B230216G23   | 1.13644968 | -0.2643548 | 1.71211959 | 0.20561506 | 0.27946002 |
| Btf3l4       | -0.1448632 | 7.05131846 | 1.71147601 | 0.20569688 | 0.27953243 |
| Kcnq1        | -1.628914  | -1.3330321 | 1.71080705 | 0.20578196 | 0.27960926 |
| L3mbtl4      | 0.7833468  | 0.00633733 | 1.71018516 | 0.2058611 | 0.27966271 |
| Atp7b        | 1.26379491 | -0.6278342 | 1.71004923 | 0.2058784 | 0.27966271 |
| Mdh1         | -0.1457427 | 8.81871868 | 1.70916585 | 0.20599089 | 0.27977672 |
| Gm527        | -0.4592196 | 2.04063156 | 1.70822965 | 0.20611019 | 0.27989994 |
| Mrpl32       | -0.3008247 | 3.95919809 | 1.70785519 | 0.20615793 | 0.27992597 |
| Wdr55        | -0.2274655 | 4.11983613 | 1.70739693 | 0.20621638 | 0.27996652 |
| Arpc3        | -0.2461146 | 4.43972326 | 1.70634698 | 0.20635037 | 0.2801096 |
| Psme3        | -0.1453253 | 6.7298075  | 1.7059169  | 0.20640528 | 0.28011297 |
| Irf9         | 0.3067325  | 3.88034125 | 1.70587189 | 0.20641103 | 0.28011297 |
| Lsm6         | -0.1912027 | 5.28972953 | 1.70565569 | 0.20643864 | 0.28011297 |
| Prickle2     | 0.23465249 | 7.94042736 | 1.70420963 | 0.20662345 | 0.28031051 |
| Srp14        | -0.2261225 | 6.88944563 | 1.70405223 | 0.20664358 | 0.28031051 |
| Mllt4        | 0.13434649 | 7.44020408 | 1.70384509 | 0.20667008 | 0.28031051 |
| Cd8b1        | 0.8223588  | -0.329234  | 1.70350954 | 0.206713 | 0.28032992 |
| Gene       | 4732471J01F | 0.4844754  | 1.65435426 | 1.70222709 | 0.20687717 | 0.28045395 |
|------------|-------------|------------|------------|------------|------------|------------|
| Eng        | -0.2669085  | 3.29847141 | 1.7020985  | 0.20689364 | 0.28045395 |
| Fastkd5    | 0.26711342  | 3.34987176 | 1.70192254 | 0.20691618 | 0.28045395 |
| Fitm2      | -0.8188678  | 0.590713   | 1.70168813 | 0.20694621 | 0.28045395 |
| Rab4b      | 0.26608604  | 3.46362841 | 1.70139667 | 0.20698356 | 0.28045395 |
| Itga11     | -0.3645567  | 2.90705307 | 1.70136441 | 0.20698769 | 0.28045395 |
| R3hdm2     | -0.166907   | 9.00287395 | 1.70123027 | 0.20700488 | 0.28045395 |
| Nek4       | 0.24848553  | 4.4182294  | 1.70059643 | 0.20708614 | 0.28046588 |
| Ap3s2      | 0.173418    | 6.62475984 | 1.70050892 | 0.20709737 | 0.28046588 |
| Tha1       | -0.805575   | 0.05886685 | 1.70031109 | 0.20712274 | 0.28046588 |
| Wdhd1      | 0.3796628   | 2.70306363 | 1.70026836 | 0.20712822 | 0.28046588 |
| Olf99      | -1.7080945  | -1.5113581 | 1.69894611 | 0.20729791 | 0.28063862 |
| Vps54      | 0.16391304  | 6.89711108 | 1.69882792 | 0.20731308 | 0.28063862 |
| Bcas1os2   | 1.06546183  | -0.1968734 | 1.69762886 | 0.20746713 | 0.28067247 |
| Ss18l1     | 0.18600321  | 6.11108159 | 1.69743388 | 0.20749219 | 0.28067247 |
| Nmmat3     | 0.42312943  | 2.54700516 | 1.69734964 | 0.20750302 | 0.28067247 |
| 2900008C10l| 0.94810102  | 0.21761927 | 1.69732431 | 0.20750628 | 0.28067247 |
| Foxp4      | -0.3028422  | 4.89409226 | 1.69709988 | 0.20753513 | 0.28067247 |
| Dmap1      | -0.3121606  | 3.50122349 | 1.69692726 | 0.20755733 | 0.28067247 |
| Myc        | -0.3148134  | 3.6606208  | 1.69688123 | 0.20756325 | 0.28067247 |
| Eef2       | 0.1582003   | 8.35795737 | 1.6967736  | 0.20757709 | 0.28067247 |
| Fgf7       | -0.5080234  | 1.59761899 | 1.69662679 | 0.20759598 | 0.28067247 |
| Dtx2       | -0.5023031  | 1.76024627 | 1.69585791 | 0.20769491 | 0.28076478 |
| Admats5    | 0.29760667  | 3.69374067 | 1.69488109 | 0.20782068 | 0.28089787 |
| Acss1      | -0.2427688  | 3.75449704 | 1.69466341 | 0.20784872 | 0.28089787 |
| Arap2      | 0.22303927  | 7.05856224 | 1.69432415 | 0.20789244 | 0.28091819 |
| Rgmb       | 0.22958773  | 4.71335    | 1.69387603 | 0.20795019 | 0.28092809 |
| Trpv4      | 0.95940482  | -0.4879297 | 1.69379019 | 0.20796126 | 0.28092809 |
| Pdzd4      | -0.2101108  | 5.59251781 | 1.69359983 | 0.2079858  | 0.28092809 |
| Mtpap      | -0.2215695  | 4.90302838 | 1.69159773 | 0.20824414 | 0.28123826 |
| Mlf2       | -0.1489635  | 6.45549964 | 1.69121674 | 0.20829335 | 0.28126593 |
| Ppil4      | 0.18190214  | 5.95392326 | 1.69038227 | 0.20840118 | 0.28135742 |
| Macrod2    | -0.2347686  | 5.09283958 | 1.68988918 | 0.20846493 | 0.28135742 |
| Gdi2       | -0.1373151  | 8.14845822 | 1.68970001 | 0.20848939 | 0.28135742 |
| Tmem88b    | -0.2112746  | 5.67365952 | 1.68955023 | 0.20850876 | 0.28135742 |
| Sdhc       | -0.2456926  | 6.84374404 | 1.68934317 | 0.20853555 | 0.28135742 |
| S1c37a1    | 0.5449977   | 0.7991249  | 1.68907399 | 0.20857037 | 0.28135742 |
| Gm128      | -1.0787666  | -0.8928464 | 1.6889593 | 0.20858521 | 0.28135742 |
| Gm20752    | 0.61204642  | 0.53927889 | 1.68891542 | 0.20859089 | 0.28135742 |
| Ankrd54    | -0.3712136  | 2.01306305 | 1.68796868 | 0.20871345 | 0.28147997 |
| Coro1b     | -0.2324575  | 5.32204427 | 1.68776974 | 0.20873922 | 0.28147997 |
| Napb       | -0.1794902  | 9.75654075 | 1.6862369  | 0.20893787 | 0.28170907 |
| Gm10538    | 1.10865044  | -0.6379455 | 1.68536559 | 0.2090509 | 0.28182267 |
| Gene       | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 | Value17 | Value18 | Value19 | Value20 | Value21 | Value22 | Value23 | Value24 | Value25 | Value26 | Value27 | Value28 | Value29 | Value30 | Value31 | Value32 | Value33 | Value34 | Value35 | Value36 | Value37 | Value38 | Value39 | Value40 | Value41 | Value42 | Value43 | Value44 | Value45 | Value46 | Value47 | Value48 | Value49 | Value50 | Value51 | Value52 | Value53 | Value54 | Value55 | Value56 | Value57 | Value58 | Value59 | Value60 | Value61 | Value62 | Value63 | Value64 | Value65 | Value66 | Value67 | Value68 | Value69 | Value70 | Value71 | Value72 | Value73 | Value74 | Value75 | Value76 | Value77 | Value78 | Value79 | Value80 | Value81 | Value82 | Value83 | Value84 | Value85 | Value86 | Value87 | Value88 | Value89 | Value90 | Value91 | Value92 | Value93 | Value94 | Value95 | Value96 | Value97 | Value98 | Value99 | Value100 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|--------|---------|---------|---------|---------|---------|---------|
| Rbm5   | 0.27108308 | 6.2395318 | 1.66653932 | 0.21151199 | 0.28342418 |
| Anapc7 | -0.4809152 | 1.75210693 | 1.6660809 | 0.21157238 | 0.28343769 |
| Cyth2  | -0.21304599 | 5.53756592 | 1.66595799 | 0.21158857 | 0.28343769 |
| Pgc1   | -0.4213952 | 2.17195228 | 1.66580377 | 0.21160889 | 0.28343769 |
| Mfn1   | 0.22481252 | 5.318936 | 1.66556341 | 0.21164056 | 0.28347637 |
| 3110070M22 | 1.25703193 | -0.9877719 | 1.66506178 | 0.21170669 | 0.28346135 |
| Ddx58  | 0.2811577 | 2.10473816 | 1.66501114 | 0.21171337 | 0.28346135 |
| Zfand3 | -0.2050125 | 5.53411354 | 1.66470695 | 0.21175348 | 0.28347631 |
| Nlrp4f | 1.61202685 | -1.9884153 | 1.66448424 | 0.21178285 | 0.28347689 |
| Gm1604b | 0.46503576 | 1.39017072 | 1.66413209 | 0.21182931 | 0.28348779 |
| Blvra  | -0.3760299 | 2.55710238 | 1.66398381 | 0.21184887 | 0.28348779 |
| Milr1  | 1.27393237 | -0.3117248 | 1.66351096 | 0.21191128 | 0.28350899 |
| Lims1  | -0.2392241 | 7.53140052 | 1.6630253 | 0.2119754 | 0.28350899 |
| Ddx20  | 0.35196349 | 3.71303709 | 1.66282431 | 0.21200195 | 0.28350899 |
| Fbxo42 | 0.18073936 | 5.14758796 | 1.66280258 | 0.21200482 | 0.28350899 |
| Dzip1l | 0.26502642 | 3.47305147 | 1.66248741 | 0.21204645 | 0.28350899 |
| Cngb1  | -0.7961418 | 0.65399982 | 1.66227075 | 0.21207508 | 0.28350899 |
| Fbxo41 | 0.26357404 | 5.17508586 | 1.6621965 | 0.21208183 | 0.28350899 |
| Adams17 | 0.59977246 | 2.62311081 | 1.66190555 | 0.21212334 | 0.28350899 |
| Tmem106c | -0.4602345 | 3.83407144 | 1.66188004 | 0.21212671 | 0.28350899 |
| Cab39  | -0.1440261 | 7.71350092 | 1.66167245 | 0.21215415 | 0.28350899 |
| Ctsq  | -0.3064152 | 3.03282715 | 1.66091589 | 0.2122542 | 0.28360196 |
| Tmed8  | 0.15185174 | 6.24397623 | 1.660548 | 0.21230287 | 0.28360196 |
| Tmem30a | 0.16815774 | 7.94358369 | 1.66048969 | 0.21231058 | 0.28360196 |
| Oat    | -0.2211853 | 8.127886 | 1.65999562 | 0.21237597 | 0.28365062 |
| Wfs1   | 0.22807942 | 7.64987679 | 1.65947417 | 0.21244501 | 0.28368688 |
| Stmn1-rs1 | 1.65050098 | -1.1613984 | 1.65935314 | 0.21246104 | 0.28368688 |
| Slc9a7 | 0.31177308 | 4.25515932 | 1.65809993 | 0.21263902 | 0.28388583 |
| Zfp719 | 0.21908478 | 5.19662256 | 1.65741645 | 0.21271772 | 0.28390057 |
| Pcnx4L | 0.25649971 | 4.64560216 | 1.65738978 | 0.21272126 | 0.28390057 |
| Tex15  | 0.40801315 | 2.37812707 | 1.65671422 | 0.21281089 | 0.28390057 |
| Prkg1  | -0.198004 | 4.21440019 | 1.65670397 | 0.21281225 | 0.28390057 |
| 1700008J07F | -0.3741727 | 3.20091997 | 1.65622843 | 0.21287537 | 0.28390057 |
| Aoc2   | 0.58551371 | 2.1423825 | 1.65616115 | 0.21288431 | 0.28390057 |
| Dnah2  | 0.50003779 | 1.78466754 | 1.65607617 | 0.21289559 | 0.28390057 |
| Nab1   | 0.14724027 | 6.61814642 | 1.65598212 | 0.21290808 | 0.28390057 |
| Arg2   | 0.412362 | 2.92564472 | 1.65596079 | 0.21291091 | 0.28390057 |
| 2810468N07 | -0.3445712 | 2.59220216 | 1.65526602 | 0.2130032 | 0.28398497 |
| Cyth2  | -0.2618627 | 4.26547245 | 1.65411122 | 0.2131567 | 0.28415095 |
| Phc3   | 0.17178784 | 8.00497733 | 1.65343784 | 0.21324627 | 0.28423168 |
| Anapc7 | -0.2867717 | 3.5193806 | 1.65238856 | 0.21338594 | 0.28437914 |
| Atp6v0e2 | -0.206061 | 5.29601481 | 1.65214898 | 0.21341785 | 0.28438297 |
| Rbm5   | 0.196249 | 6.94168735 | 1.65183437 | 0.21345976 | 0.28440013 |
| Gene    | Smc1b   | Leprel4  | Aim1   | Stpg1   | Ppif   | Tuba4a  | Rere   | B930025P03 | Tmem74b | Rab21   | Jtb    | Grin3a  | Lrrc3b  | Fam198b | Nccrp1  | Fam45a  | Etv1    | Sox5    | Rad23a  | Sema4b  | 1110006O24 | Aarsd1  | Slc25a37 | Trove2  | Ihah1   | Slc41a2  | 1810055G02 | Wdr36  | Tbk1    | Hnrnpa3 | Phpt1   | Tspan15 | Radil   | Fgf12   | Atg4a   | Stard4  | Clic5   | Gm13582 | Zfp760  | Cul4a   | Plbd1   | Mtrf1l  | Ankrd24 |
|---------|---------|----------|--------|---------|--------|---------|--------|------------|----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|         | 1.3218311 | -0.7178383 | 3.9601279 | 0.68737858 | 0.2136005 | 0.2136305 | 0.2136375 | 0.2136386 | 0.21401237 | -0.2162489 | 0.21419143 | 0.21420796 | 0.2142529 | 0.21415147 | 0.21413076 | 0.21463668 | 0.21469261 | 0.21447106 | 0.21443729 | 0.21451479 | 0.21419143 | 0.21420796 | 0.21427799 | 0.21451479 | 0.21413076 | 0.21451479 | 0.21419143 | 0.21420796 | 0.21427799 |
| Gene        | Log2 FC | P-value | Log10 FDR | Log10 P incidental | Log10 P false discovery | Log10 P post FDR | Log10 P adjusted | Log10 P adjusted (FDR) |
|-------------|---------|---------|-----------|------------------|------------------------|------------------|-----------------|---------------------|
| Tbc1d10b    | -0.1845281 | 4.60840359 | 1.63041249 | 0.21633792 | 0.28652005 |
| Cd2         | -1.2644716 | -0.4858184 | 1.63015692 | 0.21637255 | 0.28652718 |
| Med9        | -0.2726568 | 4.76136036 | 1.62941673 | 0.21647289 | 0.2866213 |
| Guf1        | 0.40507316 | 3.90420422 | 1.62917009 | 0.21650634 | 0.28662371 |
| Rgs18       | -0.9409291 | -0.0944999 | 1.62897183 | 0.21653323 | 0.28662371 |
| S1c35b2     | 0.48734472 | 2.09245304 | 1.62835011 | 0.21661759 | 0.28666753 |
| Cacng8      | 0.75323767 | 0.70465337 | 1.6282965 | 0.21662487 | 0.28666753 |
| Ptpn11      | -0.1451678 | 7.67249814 | 1.62552729 | 0.21700113 | 0.28712666 |
| D930020B18  | 1.70018773 | -2.0613081 | 1.62501094 | 0.21707138 | 0.28715528 |
| Map2k2      | -0.2650336 | 4.35852667 | 1.62493738 | 0.21708139 | 0.28715528 |
| Ybx1        | -0.2019128 | 7.17213892 | 1.62380077 | 0.21723614 | 0.28732118 |
| Ndrg2       | -0.2109383 | 8.89316175 | 1.62340155 | 0.21729052 | 0.28735431 |
| 2810002D19  | 0.3420801 | 3.26031947 | 1.62304514 | 0.21733909 | 0.28739794 |
| Rac1        | -0.1493947 | 10.032103 | 1.62194947 | 0.21748849 | 0.28753304 |
| Brd8        | 0.16680807 | 5.86129526 | 1.62156379 | 0.2175411 | 0.28753304 |
| Mertk       | 0.31536209 | 3.7656962 | 1.62154922 | 0.21754309 | 0.28753304 |
| Fkbp2       | -0.2480801 | 4.37876841 | 1.62083839 | 0.21764011 | 0.28762247 |
| Tcf7l2      | -0.2604624 | 6.41243746 | 1.62041004 | 0.21769861 | 0.28766096 |
| Tgm5        | 1.19428343 | 0.06643321 | 1.62001625 | 0.2177524 | 0.28769323 |
| F2          | -1.3489051 | -1.044684 | 1.61943571 | 0.21783173 | 0.28775923 |
| A730090N16  | 0.76114882 | 0.77945632 | 1.61803084 | 0.21802386 | 0.28797419 |
| Zp3r        | 1.68083481 | -1.4150992 | 1.6177332 | 0.21806459 | 0.28798916 |
| Zfp689      | -0.4885999 | 1.65049291 | 1.61726707 | 0.2181284 | 0.2880346 |
| Nol4        | -0.2018647 | 6.37124719 | 1.61669988 | 0.21820607 | 0.28809833 |
| Nxph2       | 0.8214642 | 0.00279407 | 1.61629548 | 0.21826148 | 0.28813164 |
| Bid         | -0.3208946 | 2.81864589 | 1.61542532 | 0.21838075 | 0.28813164 |
| Kdm4c       | 0.25831642 | 5.52623136 | 1.61532026 | 0.21839516 | 0.28813164 |
| Thada       | 0.2462212 | 5.05442858 | 1.61529404 | 0.21839875 | 0.28813164 |
| Ero1lb      | 0.28737264 | 3.76443278 | 1.61494492 | 0.21844663 | 0.28813164 |
| Bcl9l       | 0.22801302 | 5.44706175 | 1.61491722 | 0.21845043 | 0.28813164 |
| Neu2        | -0.6206639 | 0.65232574 | 1.61488629 | 0.21845468 | 0.28813164 |
| Cbx6        | 0.17538753 | 6.62613416 | 1.61460383 | 0.21849343 | 0.28813164 |
| Acrv1c      | 0.27317209 | 4.78138108 | 1.61458479 | 0.21849604 | 0.28813164 |
| Aph1a       | 0.37321251 | 2.94250574 | 1.6130629 | 0.21870499 | 0.28835864 |
| Prune       | 0.19509792 | 4.58506646 | 1.61290223 | 0.21872706 | 0.28835864 |
| Crtap       | -0.4590009 | 4.08574639 | 1.61214307 | 0.21883139 | 0.28845737 |
| Dapk2       | -0.6321057 | 0.52057744 | 1.61177284 | 0.2188823 | 0.2884614 |
| 1700086O06  | -0.9439046 | -0.332981 | 1.61169251 | 0.21889335 | 0.2884614 |
| Gm13102     | 1.2121323 | -1.4191695 | 1.61129484 | 0.21894805 | 0.28849388 |
| Rpl8        | -0.2515427 | 5.66174501 | 1.61108509 | 0.2189769 | 0.28849388 |
| Ptar1       | 0.25242853 | 3.79022026 | 1.61005397 | 0.21911884 | 0.28854122 |
| Strip1      | 0.20653262 | 4.37981101 | 1.60990091 | 0.21913991 | 0.28854122 |
| Tek         | 0.35478839 | 2.9134999 | 1.60989278 | 0.21914103 | 0.28854122 |
| Gene       | Log2FoldChange | p-value  | Adjusted p-value | FDR q-value | Log2FoldChange | p-value  | Adjusted p-value | FDR q-value |
|------------|----------------|----------|------------------|-------------|----------------|----------|------------------|-------------|
| Jmjd1c     | 0.19538628     | 0.21914873 | 0.28854122       |             | Spsb3         | -0.3473322   | 0.21920436 | 0.28854122       |
| Ubl7       | -0.1573104     | 0.21920555 | 0.28854122       |             | Nudt14        | -0.6229507   | 0.21921903 | 0.28854122       |
| Exosc2     | -0.2774179     | 0.2192806  | 0.28856103       |             | Snord47       | 0.34644729   | 0.219293    | 0.28856103       |
| Sls4a3     | 1.31771222     | 0.21932656 | 0.28856103       |             | Lin28b        | 0.38820744   | 0.21946722 | 0.28856103       |
| Ppp2r5c    | -0.166248      | 0.21948382 | 0.28856103       |             | E130308A19    | -0.2204696   | 0.21953749 | 0.28872761       |
| Uhrf1      | -0.851514      | 0.21960506 | 0.2887524        |             | B3gnt7        | 1.67403635   | 0.21963476 | 0.2887524        |
| Bsk3       | 0.78270267     | 0.21967063 | 0.2887524        |             | A230050P20    | 0.37752264   | 0.21969403 | 0.2887524        |
| A230050P20 | -0.96872       | 0.21970374 | 0.2887524        |             | A630066F11    | -0.5240082   | 0.21970374 | 0.2887524        |
| Sirt1      | 0.26177874     | 0.21995825 | 0.2887524        |             | Scara5        | -0.4668438   | 0.22004923 | 0.28894665       |
| Coq7       | -0.3209224     | 0.2200581  | 0.28894665       |             | Sod2          | -0.1563962   | 0.22006953 | 0.28894665       |
| Gtpbp10    | -0.24055       | 0.22006953 | 0.28894665       |             | Gtpbp10       | 0.4749059    | 0.22004376 | 0.28936636       |
| Bmp2       | -0.2985341     | 0.22008318 | 0.2893688        |             | Hdac11        | -0.1886311   | 0.22005117 | 0.2893688        |
| Hspa8      | -0.1433831     | 0.22015117 | 0.2893688        |             | Bcl2l2        | -0.1451326   | 0.2201397   | 0.28945775       |
| Ddx36      | 0.21118409     | 0.22064923 | 0.28949009       |             | Hist3H2ab     | -1.1541032   | 0.2207034   | 0.28951141       |
| Fam71b     | -1.4717723     | 0.22072459 | 0.28951141       |             | Ccnc28b       | -0.2804653   | 0.22087932 | 0.28965462       |
| Cpeb4      | 0.20305067     | 0.22095903 | 0.28965462       |             | Emtl18        | -0.2105758   | 0.22108778 | 0.28983255       |
| Ehmt2      | 0.19944097     | 0.22094601 | 0.28983255       |             | Cox17         | -0.2105758   | 0.22108778 | 0.28983255       |
| Gm10653    | 0.62954552     | 0.22128157 | 0.29004778       |             | Hspa8         | -0.1433831   | 0.2213348   | 0.29007872       |
| Zfp568     | -0.2867417     | 0.22137978 | 0.29009255       |             | Ccnc142       | 0.84704796   | 0.22140548 | 0.29009255       |
| Mettl18    | 0.52577263     | 0.22147257 | 0.29014283       |             | Cbr4          | -0.250651    | 0.22155497 | 0.29019263       |
| Pcyt2      | -0.481377      | 0.22159875 | 0.29019263       |             | Rpp21         | -0.3591308   | 0.22159946 | 0.29019263       |
| Arf6       | -0.1948004     | 0.22171464 | 0.29024689       |             |               |           |                  |             |
| Gene      | Log2 Fold Change | p-value   | -log10(p-value) |
|-----------|-----------------|-----------|-----------------|
| Csgp4     | 0.34042881      | 2.74830297| 1.59125311      |
| Irapk3    | -0.4494677      | 2.79377996| 1.59123555      |
| Bckdhb    | 0.40502978      | 2.62445648| 1.59100947      |
| Spaca6    | 0.63235945      | 2.96142993| 1.59066866      |
| Trpc5     | 0.29615291      | 4.12058133| 1.59038149      |
| Acot8     | -0.5268609      | 1.57010583| 1.58969674      |
| Zfp423    | -0.1848332      | 6.14028828| 1.58964744      |
| Oxld1     | -0.5902694      | 1.12722432| 1.58938731      |
| Bcat1     | 0.21046462      | 5.79615957| 1.58915752      |
| Slc43a2   | 0.22443365      | 5.45789386| 1.58872988      |
| Aff2      | 0.25173905      | 5.87645456| 1.5882174       |
| Elfn2     | 0.23288927      | 5.01552476| 1.58803431      |
| Zmym6     | 0.29842877      | 4.80463903| 1.58763545      |
| Slc30a3   | -0.265158       | 4.31400303| 1.58656943      |
| Omg       | 0.23432854      | 7.44931293| 1.58656679      |
| Coq2      | -0.2064111      | 4.82113311| 1.5865016       |
| Mapk8ip1  | 0.18701055      | 5.53140948| 1.5864795       |
| Car14     | 0.66905388      | 2.80967489| 1.58600921      |
| Taf8      | -0.2958359      | 2.78515592| 1.58502055      |
| Morc1     | 1.76752369      | -1.4927498| 1.58391164      |
| Tecpr2    | 0.32699633      | 5.55760619| 1.5839043       |
| Zfp609    | 0.15237957      | 7.47356055| 1.58270017      |
| Wdr20     | 0.24527671      | 3.5679198 | 1.58207845      |
| Ufm1      | -0.1782444      | 6.00772638| 1.58202553      |
| Cc2d1a    | 0.36556305      | 2.91803253| 1.5814249       |
| Crtc1     | 0.19423056      | 6.31936751| 1.58114215      |
| Dnaja4    | -0.2047003      | 4.57273453| 1.58062094      |
| Gabbr1    | 0.20640046      | 7.35813942| 1.58038775      |
| Gm19897   | 0.98802677      | -0.0053827| 1.58002824      |
| Pfas      | 0.28999201      | 3.81241102| 1.58002251      |
| Szrd1     | -0.2800896      | 4.64014995| 1.57944196      |
| Fam19a2   | 0.19234985      | 5.53212453| 1.57895323      |
| Parp3     | -0.2963765      | 4.28637517| 1.57862635      |
| Pmpca     | -0.1442836      | 6.05823535| 1.57545506      |
| Pdnj      | 0.30596813      | 3.32308681| 1.5753255       |
| Dnajb1    | -0.1561461      | 6.61552097| 1.57528824      |
| Nubp2     | 0.30867068      | 3.47215544| 1.57479202      |
| Msra      | 0.32618826      | 3.48859937| 1.57433314      |
| Hist1h2bn | -0.4350303      | 3.01491365| 1.57387379      |
| Env3      | 2.32958668      | -1.2482462| 1.57383123      |
| Drd2      | 0.40568829      | 3.84286227| 1.5738139       |
| Lrrc4b    | 0.24128205      | 4.57026457| 1.57319253      |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Snord64| 0.26648934 | 3.72930431 | 1.55275454 | 0.22721902 | 0.29408408 |
| Lpcat2 | 0.43247522 | 2.55061214 | 1.55240739 | 0.22724312 | 0.29408408 |
| 2510002D24| -0.3285365 | 3.33183668 | 1.55062875 | 0.22749984 | 0.2943455 |
| Rpl37 | -0.24329999 | 6.35124797 | 1.55059145 | 0.22750523 | 0.2943455 |
| Irs3  | 0.49455376 | 2.20963821 | 1.54977609 | 0.22762303 | 0.29445903 |
| Ube2g1| -0.175658 | 6.83465287 | 1.54875238 | 0.22777106 | 0.2945696 |
| A430078G23| 0.2981163 | 3.71615754 | 1.5485042 | 0.22780696 | 0.2945696 |
| Taf6  | 0.20420263 | 4.52925267 | 1.54840076 | 0.22782193 | 0.2945696 |
| Stk36 | 0.53141837 | 1.23416764 | 1.54835331 | 0.22782879 | 0.2945696 |
| C1qc  | 0.28348218 | 3.74008951 | 1.5478955 | 0.22789505 | 0.29461638 |
| Zmi2  | 0.16639627 | 6.47259555 | 1.54766266 | 0.22792876 | 0.29462107 |
| Rps27 | -0.701044 | -0.165867 | 1.54736278 | 0.22797219 | 0.29463832 |
| Setd4 | 0.71434469 | 1.04697933 | 1.54706393 | 0.22801547 | 0.29465538 |
| Ccdd15| -0.2706536 | 4.26370537 | 1.54609558 | 0.22815579 | 0.29478504 |
| Rtp3  | 0.92852902 | 0.44595136 | 1.54595626 | 0.22817599 | 0.29478504 |
| A230056P14| 0.25374448 | 4.00572703 | 1.54547281 | 0.2282461 | 0.29483672 |
| 9130019P16l| -0.7877677 | 0.2995342 | 1.54394692 | 0.22846755 | 0.29508387 |
| Rbm24 | -0.2798353 | 3.97278208 | 1.54232766 | 0.22870285 | 0.29534884 |
| Tacstd2| -0.9137358 | 0.91133709 | 1.5409562 | 0.22890239 | 0.29556755 |
| Kcnj6 | 0.27349396 | 5.88929856 | 1.54069933 | 0.22893978 | 0.29557688 |
| Gcnt2 | 0.19156029 | 5.3346145 | 1.53994837 | 0.22904916 | 0.29567912 |
| Lrrn3 | 0.16642332 | 5.76530635 | 1.53930251 | 0.22914328 | 0.29576164 |
| Isoc2b | -0.60966 | 0.67709782 | 1.53884269 | 0.22921032 | 0.29580919 |
| Rexo1 | -0.2173037 | 4.84694613 | 1.53781893 | 0.22935967 | 0.29595733 |
| Atp6v1a | 0.18282486 | 9.34063743 | 1.53747866 | 0.22940934 | 0.29595733 |
| Cenpo | -0.5016173 | 2.19298701 | 1.53743475 | 0.22941575 | 0.29595733 |
| Gm16432| -0.7136389 | 1.11354933 | 1.53685283 | 0.22950072 | 0.29602796 |
| Fez2  | -0.2049793 | 5.48917661 | 1.53623873 | 0.22959044 | 0.29610469 |
| Homez | 0.19258644 | 4.36385714 | 1.53538306 | 0.22971552 | 0.29621637 |
| Pin1  | -0.29115 | 3.03710293 | 1.53523271 | 0.22973751 | 0.29621637 |
| Pisd-ps2| 0.60235832 | 1.82561188 | 1.53445512 | 0.22985127 | 0.2962782 |
| Adprhl2 | 1.22855087 | -0.4313696 | 1.53430582 | 0.22987312 | 0.2962782 |
| Ddx6  | 0.12785861 | 8.14176141 | 1.53428475 | 0.2298762 | 0.2962782 |
| C1qc  | -0.6015076 | 2.26937786 | 1.53312427 | 0.23004613 | 0.29645821 |
| Uba6  | 0.22146051 | 5.70518127 | 1.5326207 | 0.23011992 | 0.29651429 |
| Rassf10| -0.3624644 | 2.070177 | 1.53176267 | 0.23024572 | 0.29663736 |
| Parp1 | -0.1435697 | 6.13886078 | 1.53140618 | 0.23029801 | 0.29664188 |
| Sirt7  | 0.30900777 | 3.02721932 | 1.53112245 | 0.23033964 | 0.29664188 |
| Gm13710| -0.6965021 | 0.50755034 | 1.5311195 | 0.23034008 | 0.29664188 |
| Zmrf2 | -0.2576223 | 4.47525774 | 1.53073172 | 0.23039699 | 0.29666069 |
| Cubn  | -0.3179728 | 5.30480592 | 1.53043997 | 0.23043982 | 0.29666069 |
| Zmynd12| 1.3575894 | -1.5953784 | 1.53040099 | 0.23044554 | 0.29666069 |
| Snord64| 0.66581201 | 0.11126049 | 1.52997536 | 0.23050805 | 0.29670216 |
| Gene       | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 | Value17 | Value18 | Value19 | Value20 | Value21 | Value22 | Value23 | Value24 | Value25 | Value26 | Value27 | Value28 | Value29 | Value30 | Value31 | Value32 | Value33 | Value34 | Value35 | Value36 | Value37 | Value38 | Value39 | Value40 | Value41 | Value42 | Value43 | Value44 | Value45 | Value46 | Value47 | Value48 | Value49 | Value50 | Value51 | Value52 | Value53 | Value54 | Value55 | Value56 | Value57 | Value58 | Value59 | Value60 | Value61 | Value62 | Value63 | Value64 | Value65 | Value66 | Value67 | Value68 | Value69 | Value70 | Value71 | Value72 | Value73 | Value74 | Value75 | Value76 | Value77 | Value78 | Value79 | Value80 | Value81 | Value82 | Value83 | Value84 | Value85 | Value86 | Value87 | Value88 | Value89 | Value90 | Value91 | Value92 | Value93 | Value94 | Value95 | Value96 | Value97 | Value98 | Value99 | Value100 |
| Gene  | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Plp1  | 0.26830818| 8.66461957| 1.50674045| 0.23395331| 0.29935409|
| Cep135| 0.29553744| 4.32391521| 1.5067133| 0.23395738| 0.29935409|
| Fam96b| -0.32262  | 2.67795125| 1.50660141| 0.23397413| 0.29935409|
| Bag4  | 0.17723464| 5.95107043| 1.50604055| 0.23405812| 0.29940803|
| Agtr1a |1.79625834 | -1.2617721 | 1.50554795| 0.23413191| 0.29940803|
| Atp6ap2| 0.17028217| 7.25392313| 1.50537755| 0.23415745| 0.29940803|
| Dazap1| 0.26729343| 3.48253625| 1.50532139| 0.23416586| 0.29940803|
| Elf3   | 0.83566012| -0.0623376| 1.50529964| 0.23416912| 0.29940803|
| Ntf3  | -1.8134226| -1.2165419| 1.50454848| 0.23428373| 0.29951292|
| Map3k1| 0.19719315| 5.10802838| 1.5030018| 0.23451383| 0.29971643|
| Mast1 | 0.55879514| 1.51160158| 1.50289925| 0.23452922| 0.29971643|
| Slc35f1| 0.22367104| 7.28824329| 1.50287599| 0.23453272| 0.29971643|
| Ptcd3  | 0.25105904| 5.21562764| 1.50260926| 0.23457278| 0.29972852|
| Lin7a  | -0.1691097| 7.6292927 | 1.50233494| 0.23461399| 0.29973228|
| Clpx   | 0.16471167| 5.39070899| 1.50218231| 0.23463692| 0.29973228|
| Tctex1d2| -0.2631535| 4.3958505 | 1.50161018| 0.23472427| 0.29974313|
| Dgcr6  | -0.3110895| 3.95728815| 1.50155999| 0.23473045| 0.29974313|
| BC016579| 2.01863823| -1.2504356| 1.501515  | 0.23473721| 0.29974313|
| Gemin5 | 0.31556229| 3.93796006| 1.50128922| 0.23477116| 0.29974414|
| Sv2b   | 0.2156394| 9.37558707| 1.50096698| 0.23481962| 0.29974414|
| Mns1   | -0.3639618| 2.41699082| 1.50038014| 0.2349079 | 0.29974414|
| Fam107b | -0.3217198| 5.28728601| 1.50033672| 0.23491444| 0.29974414|
| Rpe65  | 0.8936519| 0.67821647| 1.50014772| 0.23494288| 0.29974414|
| Pcdha12| 0.61774307| 1.20786734| 1.5000449| 0.23495836| 0.29974414|
| Cnnm1  | 0.18560599| 6.37053827| 1.5000182| 0.23496237| 0.29974414|
| Tradd  | -0.6141893| 0.67360552| 1.49988244| 0.23498281| 0.29974414|
| Slc41a3| 0.46887958| 2.46873405| 1.49954211| 0.23503405| 0.2997682|
| Zbtb2  | -0.1838225| 4.67072501| 1.49935068| 0.23506288| 0.2997682|
| Tm4sf1 | -0.2627509| 4.66416052| 1.49907254| 0.23510477| 0.29977724|
| Epha2  | 1.44429434| -1.6460887| 1.49889728| 0.23513117| 0.29977724|
| Alyref2| -0.3771787| 1.75103512| 1.49861743| 0.23517334| 0.29979198|
| Slc22a2| -0.3818085| 4.58244843| 1.49767354| 0.23531564| 0.29993434|
| Fbl    | -0.263107 | 4.29211646| 1.49712526| 0.23539834| 0.3000072|
| Zfp651 | -0.2445036| 4.59660151| 1.49595009| 0.23557574| 0.30010445|
| Edn3   | -0.2418424| 6.20018642| 1.49588512| 0.23558555| 0.30010445|
| Vps25  | -0.2456398| 5.12728745| 1.49584624| 0.23559142| 0.30010445|
| Gpr84  | 1.58127396| -1.0057645| 1.49552998| 0.2356392| 0.30010445|
| A330040F15 | -0.985774 | -0.8518091| 1.49521306| 0.23568708| 0.30010445|
| Zfp345 | 1.01384824| -0.7265107| 1.49515994| 0.23569511| 0.30010445|
| Mcc1os | 0.63333774| 0.88030954| 1.49483037| 0.23574492| 0.30010445|
| Fcer1g | -0.3644007| 3.20022187| 1.49480381| 0.23574894| 0.30010445|
| Pnpla7 | 0.43983927| 2.12670054| 1.49446992| 0.23579942| 0.30010445|
| Oxnad1 | -0.3271484| 3.78928905| 1.49428218| 0.23582781| 0.30010445|
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Mdfi   | -1.4756095 | -1.4504208 | 1.49147911 | 0.2358434 | 0.30010445 |
| Haus3  | 0.22707671 | 4.11729922 | 1.49145275 | 0.23584738 | 0.30010445 |
| Fam160a1 | -0.2455628 | 4.32997888 | 1.49281838 | 0.23604932 | 0.30029807 |
| 1110015O18 | 0.9502822 | -0.9283855 | 1.49274212 | 0.23606087 | 0.30029807 |
| Ptn    | -0.3541146 | 10.3823205 | 1.49186838 | 0.23619322 | 0.30039853 |
| Mthfd1 | 0.28938911 | 3.54331546 | 1.49181593 | 0.23620117 | 0.30039853 |
| Mcm2   | -0.35165  | 2.2388127 | 1.49129349 | 0.23628036 | 0.30042046 |
| Khhl15 | -0.3416891 | 3.77533684 | 1.49112819 | 0.23630542 | 0.30042046 |
| 4930505A04 | -1.0223668 | -0.1434764 | 1.49109518 | 0.23631042 | 0.30042046 |
| Lpar5  | -1.1726383 | -0.77694488 | 1.49062196 | 0.23638219 | 0.30046891 |
| Trip4  | -0.1623485 | 5.85807798 | 1.49043945 | 0.23640988 | 0.30046891 |
| Tmem39b | 0.48056482 | 1.82656269 | 1.48882005 | 0.23665573 | 0.30074235 |
| Snccb  | -0.2401915 | 4.46624454 | 1.48814388 | 0.23675848 | 0.30083282 |
| Ankrd9 | 0.45753292 | 1.73365555 | 1.48794743 | 0.23678834 | 0.30083282 |
| Zfp11  | -0.2049778 | 4.27418731 | 1.48738568 | 0.23687376 | 0.30090231 |
| Gata2a | -0.2068441 | 5.71910595 | 1.48679308 | 0.23696391 | 0.3009778 |
| Acta2  | -0.3313033 | 3.71239408 | 1.48558074 | 0.23714849 | 0.30107873 |
| Glrx3  | -0.1756751 | 5.19640005 | 1.48550697 | 0.23715972 | 0.30107873 |
| Traf3  | 0.21021684 | 5.05773297 | 1.48531041 | 0.23718967 | 0.30107873 |
| Kif19a | -1.0937642 | -1.1562717 | 1.48525443 | 0.2371982 | 0.30107873 |
| 181002005 | -0.8481274 | -0.8442492 | 1.48514278 | 0.23721521 | 0.30107873 |
| Lias   | -0.1950322 | 4.59285949 | 1.48506017 | 0.2372278 | 0.30107873 |
| Pth2r  | -1.5599636 | -1.3312473 | 1.48483287 | 0.23726244 | 0.30108369 |
| Lrcc57 | -0.1851145 | 5.83911175 | 1.48445578 | 0.23731992 | 0.30111762 |
| Exosc7 | 0.28606226 | 3.35910013 | 1.48373269 | 0.2374302 | 0.30119722 |
| Reep4  | 0.88151702 | 0.28493167 | 1.48333479 | 0.23749091 | 0.30119722 |
| Uimc1  | 0.21953942 | 4.62464259 | 1.48316393 | 0.23751699 | 0.30119722 |
| Ctsw   | 1.70855376 | -2.2378359 | 1.48314624 | 0.23751969 | 0.30119722 |
| Prkaca | -0.1829711 | 7.24830415 | 1.48283649 | 0.23756697 | 0.30119722 |
| Zfp703 | -0.2051244 | 4.68493457 | 1.48283532 | 0.23756715 | 0.30119722 |
| Cccdc92| -0.1617378 | 6.70486455 | 1.48201846 | 0.2376919 | 0.30126758 |
| Pa2g4  | -0.1341402 | 6.38809118 | 1.48171589 | 0.23773813 | 0.30126758 |
| Agr2   | -0.7746615 | -0.1481052 | 1.48168665 | 0.2377426 | 0.30126758 |
| Tshz2  | 0.14897996 | 6.13773992 | 1.48166651 | 0.23774567 | 0.30126758 |
| Zbtb4  | -0.1295969 | 7.52108843 | 1.47988649 | 0.23801789 | 0.30157352 |
| Zfp13  | 0.50759846 | 1.79674284 | 1.47853952 | 0.23822414 | 0.30170744 |
| 1700123L14f | 0.98266542 | 0.3657633 | 1.47845751 | 0.23823671 | 0.30170744 |
| Tspan32| 1.42115537 | -1.3717372 | 1.47835882 | 0.23825183 | 0.30170744 |
| Mc5r   | -0.7798457 | 0.66592367 | 1.47819176 | 0.23827743 | 0.30170744 |
| Zfp566 | -0.444326 | 1.84360935 | 1.4780208 | 0.23830363 | 0.30170744 |
| Cldn25 | 0.21577207 | 5.89007369 | 1.47798973 | 0.2383084 | 0.30170744 |
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| Gene       | Fold Change | Gene ID      | Fold Change |
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| Mfng       | -0.8258253  | 0            | 0.23848862  |
| Aaed1      | -0.3187787  | 0.432597343  | 0.73851534  |
| Gpr6       | 1.46288279  | -1.4290837   | 0.2385748   |
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| Rps15a-ps6 | -0.3156016  | 2.45714199   | 0.30185992  |
| Fbxo7      | 0.26279451  | 3.37786508   | 0.30189562  |
| Macrod1    | -0.8203987  | 0.16466757   | 0.30192718  |
| Dccdc2a    | -0.2112171  | 7.4805659    | 0.30195322  |
| Pold1      | 0.6071931   | 0.57114693   | 0.30199233  |
| Gnaq       | -0.1261446  | 8.68177688   | 0.30204467  |
| Vipr2      | 1.02442457  | 0.13129878   | 0.30204467  |
| Cebpa      | -0.5283921  | 2.51636749   | 0.30204467  |
| Ddxc1      | 0.12526521  | 6.91295512   | 0.30204467  |
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| Fam181b    | -0.3693871  | 2.12299327   | 0.30204467  |
| Slc1a6     | 0.66151892  | 0.37276094   | 0.30204467  |
| Adam32     | 0.95596942  | -0.4974968   | 0.30204467  |
| Fance      | -0.3107391  | 2.70443339   | 0.30204467  |
| Kremen1    | 0.26178011  | 3.34457656   | 0.30204467  |
| Crnde      | -2.4175003  | -1.7775101   | 0.30204467  |
| Tyro3      | 0.20739827  | 4.93736118   | 0.30204467  |
| Ngb        | 0.56661689  | 0.84514126   | 0.30204467  |
| Sdccag8    | -0.1668345  | 6.24734401   | 0.30204467  |
| Lsr        | -0.3450998  | 3.45580772   | 0.30204467  |
| Fbxo11     | 0.13228407  | 8.26058227   | 0.30204467  |
| Arhgef10l  | 0.28534371  | 3.02220245   | 0.30204467  |
| Cdca7l     | 0.74447821  | 0.60647303   | 0.30204467  |
| Al662270   | 0.55830981  | 0.58541783   | 0.30204467  |
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| Kcnh1      | 0.22410872  | 6.07146337   | 0.30204467  |
| Plk3       | -0.5454405  | 1.70869438   | 0.30204467  |
| Usp15      | 0.1755937   | 5.78479516   | 0.30204467  |
| Trp3       | 0.1695401   | 6.28614017   | 0.30204467  |
| Pdk2       | -0.1491705  | 7.0969543    | 0.30204467  |
| Ddx39      | -0.3928626  | 2.37267461   | 0.30204467  |
| 2810454H06 | -1.0405758  | -0.9132212   | 0.30204467  |
| Slc5a3     | 0.1835958   | 5.78479516   | 0.30204467  |
| Rhbdl3     | 0.35490495  | 2.78035487   | 0.30204467  |
| Gpr141     | -1.8144089  | -0.5865768   | 0.30204467  |
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| Dlst       | -0.1453865  | 6.53853897   | 0.30204467  |
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| Gene      | Value1    | Value2    | Value3    | Value4    | Value5    | Value6    | Value7    |
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| Snap47    | -0.1391417| 7.28616584| 1.46047683| 0.24101235| 0.30332733|
| Ankrd17   | 0.1701932 | 8.9309109 | 1.4598611 | 0.24110814| 0.30338924|
| Mtag2     | -1.1379782| -0.504034 | 1.45956009| 0.24115498| 0.30338924|
| Pogz      | 0.16091671| 7.70921291| 1.45939499| 0.24118068| 0.30338924|
| Gm9833    | 0.40166099| 1.15406897| 1.45926457| 0.24120098| 0.30338924|
| Trp53inp1 | -0.2029322| 5.78981049| 1.45916547| 0.24121641| 0.30338924|
| Igce      | 0.29433867| 3.35711486| 1.45888965| 0.24125936| 0.3034043|
| Xrn1      | 0.19588754| 6.04494522| 1.45826581| 0.24135653| 0.30348754|
| Fahd1     | -0.1810935| 5.2997062 | 1.45763672| 0.24145457| 0.30357186|
| Larp4b    | -0.1198911| 7.45689149| 1.45725025| 0.24151483| 0.30357186|
| Ift43     | -0.3989545| 3.32495798| 1.45715458| 0.24152975| 0.30357186|
| Gmpz2     | 0.30176637| 3.44926098| 1.45704046| 0.24154755| 0.30357186|
| Pcdhgb4   | 0.36975413| 2.29278833| 1.45525783| 0.24182579| 0.30386252|
| Scl22A1b  | 0.78197448| 1.18189298| 1.45510426| 0.24184978| 0.30386252|
| Nr5a2     | 1.75031112| 2.0178375 | 1.45482817| 0.24189291| 0.30386252|
| Med17     | 0.19858226| 3.95622445| 1.4546014 | 0.24192835| 0.30386252|
| Gpr19     | 0.30566026| 3.45953435| 1.45456569| 0.24193393| 0.30386252|
| Pglyrp2   | 2.24511239| -1.8629835| 1.45420869| 0.24198974| 0.30389364|
| Spata13   | 0.19111365| 4.58809525| 1.45366706| 0.24207443| 0.30394497|
| Tmem14c   | -0.3231166| 3.11534299| 1.45355049| 0.24209266| 0.30394497|
| Arl10     | 0.58547162| 0.91584458| 1.45300428| 0.24217812| 0.3039977|
| Manf      | -0.3180128| 3.8192679 | 1.45288537| 0.24219673| 0.3039977|
| Zfp397    | 0.13028405| 5.88909395| 1.45257581| 0.24224519| 0.30401956|
| Qsox2     | 0.30594005| 2.93619289| 1.45140755| 0.24242817| 0.30413821|
| Cln6      | -0.5724748| 1.96632768| 1.4509674| 0.24249715| 0.30413821|
| Mcdas     | 1.14934834| -1.6433173 | 1.45094922| 0.2425 | 0.30413821|
| Tmem185b  | 0.39708768| 3.21262042| 1.45079624| 0.24252399| 0.30413821|
| Mrpl42    | -0.1902219| 5.90486063| 1.45067073| 0.24254366| 0.30413821|
| Cdk16     | -0.148284| 7.18779947| 1.45063869| 0.24254869| 0.30413821|
| Pogk      | -0.1351657| 6.21945239| 1.45053403| 0.2425651| 0.30413821|
| Asb7      | -0.1285935| 6.12224714| 1.45038723| 0.24258812| 0.30413821|
| Ccng1     | -0.1585238| 8.15001711| 1.45013525| 0.24262765| 0.30414883|
| Lhfpl4    | 0.15506513| 6.02255288| 1.44992946| 0.24265993| 0.30415038|
| Sntm2     | 0.45919185| 1.14257697| 1.44900776| 0.2428046| 0.30429276|
| Al839979  | 0.75546113| 0.19634029| 1.44859773| 0.24286899| 0.30430683|
| Olfr539   | 1.18128927| -0.4667982 | 1.44854064| 0.24287796| 0.30430683|
| Txlnb     | 0.44280396| 2.24854528| 1.44772548| 0.24300604| 0.30440392|
| Ebf3      | 0.40813163| 1.46044412| 1.44751822| 0.24303862| 0.30440392|
| Cd247     | -1.774829| -1.5631675 | 1.4474543 | 0.24304867| 0.30440392|
| Eqtn      | 0.91516536| 0.10408834| 1.44633796| 0.24322426| 0.30458489|
| Gpm6a     | 0.19618783| 9.42964172 | 1.44541368| 0.24336977| 0.30471269|
| 2410002F23 | 0.28781522| 3.20414754| 1.44529455| 0.24338853| 0.30471269|
| Rpl13a    | -0.1864093| 7.00463303| 1.44504513| 0.24342782| 0.30472293|
| Gene   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   |
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| Mroh7  | 1.6715934 | -0.4460366 | 1.44477225 | 0.24347081 | 0.30473781 |
| Kdm6a  | 0.2114668 | 6.12837456 | 1.4425466 | 0.24355239 | 0.30480097 |
| Bag2   | 0.3876461 | 3.17330684 | 1.44388943 | 0.24360997 | 0.30480556 |
| Gopc   | 0.14731996 | 6.07453978 | 1.4437797 | 0.24363387 | 0.30480556 |
| Lrcr61 | -0.1828095 | 5.11850472 | 1.44341328 | 0.24368507 | 0.30480556 |
| Sat1   | -0.1993962 | 5.94072351 | 1.44328879 | 0.24370471 | 0.30480556 |
| Xpo7   | 0.12556948 | 7.18190454 | 1.44324482 | 0.24371165 | 0.30480556 |
| Rraga  | 0.19993645 | 6.03591811 | 1.44265456 | 0.2438048 | 0.30485859 |
| Gspt1  | -0.2076812 | 4.93816257 | 1.44258175 | 0.24381629 | 0.30485859 |
| Plcz1  | 1.26210819 | -0.6400122 | 1.44225457 | 0.24386795 | 0.30488426 |
| Kazn   | -0.18308 | 6.12045193 | 1.44184224 | 0.24393307 | 0.30489932 |
| Csrnp3 | 0.23896965 | 7.29463756 | 1.44164218 | 0.24396467 | 0.30489932 |
| Lbh    | -0.3049321 | 6.3473381 | 1.44154811 | 0.24397954 | 0.30489932 |
| Ptpru  | 0.28622398 | 3.24593205 | 1.44139006 | 0.24400451 | 0.30489932 |
| 1700020I14R | -0.1859815 | 6.32617778 | 1.44118658 | 0.24403666 | 0.30490061 |
| Smdt1  | -0.2982105 | 5.06212921 | 1.44039392 | 0.24416198 | 0.30497114 |
| Grippp1 | 0.20025487 | 4.91768759 | 1.44026536 | 0.24418232 | 0.30497114 |
| Tspyl4 | -0.1518538 | 8.38403276 | 1.44023877 | 0.24418652 | 0.30497114 |
| Rbm19  | -0.3761055 | 2.26735387 | 1.4394991 | 0.24430355 | 0.30507841 |
| Gtf2f1 | -0.2066325 | 5.9128178 | 1.43888665 | 0.24440051 | 0.30516058 |
| Syn2   | 0.17466885 | 7.70541142 | 1.43865806 | 0.24443671 | 0.30516688 |
| Pfkp   | 0.22510493 | 7.31963642 | 1.43818294 | 0.24451197 | 0.30522194 |
| Qttrtd | 0.40228629 | 2.08839529 | 1.43600239 | 0.24485778 | 0.30552645 |
| Thbs1  | 0.36797033 | 2.76445923 | 1.43537656 | 0.24495715 | 0.30552645 |
| Fam24a | -1.8634176 | -2.0965885 | 1.43531449 | 0.24496701 | 0.30552645 |
| Col28a1 | 1.12273777 | -0.372539 | 1.43498803 | 0.24501886 | 0.30552645 |
| Rnf126 | -0.1872388 | 3.99171202 | 1.43469944 | 0.24506472 | 0.30552645 |
| Fam71d | -1.1975009 | -1.4505967 | 1.43467214 | 0.24509606 | 0.30552645 |
| Agbl2  | 0.47335292 | 1.56639521 | 1.43422229 | 0.24514055 | 0.30552645 |
| Cdc4a  | -0.3219762 | 2.88013428 | 1.4341902 | 0.24514566 | 0.30552645 |
| Olfin3 | -0.3019021 | 4.96450008 | 1.43397991 | 0.24517909 | 0.30552645 |
| Penk   | 0.22570628 | 7.08273198 | 1.43378358 | 0.24521031 | 0.30552645 |
| Mapk14 | 0.14011057 | 6.53290444 | 1.43361455 | 0.24523719 | 0.30552645 |
| Efcab2 | -0.2053945 | 3.97879449 | 1.43358701 | 0.24524157 | 0.30552645 |
| Elf4   | -0.395235 | 3.91616552 | 1.43337849 | 0.24527474 | 0.30552645 |
| Nntn   | -1.1016003 | -0.2419865 | 1.43337358 | 0.24527552 | 0.30552645 |
| Mgat4a | 0.24286244 | 5.48766177 | 1.43334712 | 0.24527973 | 0.30552645 |
| 241004P03I | -0.3859022 | 2.3157078 | 1.43318653 | 0.24530528 | 0.30552645 |
| Mtg1   | 0.35895149 | 2.77387314 | 1.43302589 | 0.24533084 | 0.30552645 |
| Mustn1 | -0.4163763 | 3.85996265 | 1.43280979 | 0.24536523 | 0.30552645 |
| Zfp799 | 0.17997924 | 5.66244101 | 1.43275053 | 0.24537466 | 0.30552645 |
| Sf3a2  | -0.2460945 | 3.0888591 | 1.43271866 | 0.24537974 | 0.30552645 |
| Ppp1r12c | -0.1590768 | 5.32770825 | 1.43233385 | 0.245441 | 0.30556389 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  |
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| Capza1 | -0.1720887 | 6.23692652 | 1.43171729 | 0.24553059 | 0.30563658 |
| Hykk   | -0.248129 | 5.34662653 | 1.43117013 | 0.24562638 | 0.30568267 |
| Tnfrsf1a | -0.3951698 | 4.11588072 | 1.43114724 | 0.24563002 | 0.30568267 |
| Spdy   | -0.5749962 | 0.69594156 | 1.4301917 | 0.24578238 | 0.30583342 |
| AW112010 | 0.43780299 | 1.65671888 | 1.42948875 | 0.24589454 | 0.30593412 |
| Helb   | 0.27376222 | 3.42155083 | 1.42795564 | 0.24613939 | 0.3061579 |
| Ntng2  | 0.44141858 | 1.99714029 | 1.4276733 | 0.24618451 | 0.3061579 |
| Xrra1  | 1.31117888 | -1.5196995 | 1.42759945 | 0.24619632 | 0.3061579 |
| Glis1  | -0.7192625 | 0.52950865 | 1.4275701 | 0.24620101 | 0.3061579 |
| Vcip1  | 0.16975489 | 7.35241349 | 1.42738446 | 0.24623069 | 0.3061579 |
| Fbxl22 | 0.86698657 | -0.6497519 | 1.42612593 | 0.24643201 | 0.30636934 |
| Dnajc8 | -0.1900832 | 6.22569928 | 1.425771 | 0.24648883 | 0.30640109 |
| Zfp810 | 0.19460139 | 4.65836076 | 1.42520604 | 0.2465793 | 0.30647033 |
| Rp2h   | -0.2337999 | 4.92032944 | 1.42503247 | 0.24660711 | 0.30647033 |
| Alkbh1 | -0.2778402 | 4.29498988 | 1.42427629 | 0.24672829 | 0.30655349 |
| Psmd2  | 0.17358145 | 5.80504036 | 1.42422434 | 0.24673661 | 0.30655349 |
| Pskh1  | -0.3280486 | 3.80027565 | 1.42384072 | 0.24679812 | 0.30657606 |
| Zfp825 | -0.2139569 | 4.52217882 | 1.42372063 | 0.24681738 | 0.30657606 |
| Dhx58  | -0.6941556 | 0.55327898 | 1.42344013 | 0.24686237 | 0.30659307 |
| Gm10516| 0.43985412 | 2.08014304 | 1.42289648 | 0.2469496 | 0.30663243 |
| Polm   | -0.3033282 | 3.19492597 | 1.42275065 | 0.24697301 | 0.30663243 |
| Tmem167b| -0.2717501 | 6.20567732 | 1.42265739 | 0.24698798 | 0.30663243 |
| Tmem170b| 0.17279761 | 7.50671763 | 1.42235828 | 0.247036 | 0.30665318 |
| Zfp87  | 0.18982648 | 5.56435072 | 1.42187178 | 0.24711413 | 0.30666702 |
| Ccc51  | -0.5709033 | 0.54766976 | 1.42181487 | 0.24712327 | 0.30666702 |
| 9810049E08 | 0.82357904 | 0.86852892 | 1.42170407 | 0.24714107 | 0.30666702 |
| Tmem37 | -0.9040047 | 0.73722853 | 1.42137023 | 0.24719471 | 0.30669473 |
| Plcd2  | -0.202494 | 7.79209282 | 1.42080347 | 0.24728581 | 0.3067689 |
| Rbm43  | -0.2175344 | 4.53418318 | 1.42000133 | 0.24741481 | 0.30685534 |
| Wdr78  | 0.38881481 | 3.27238946 | 1.41978808 | 0.24744912 | 0.30685534 |
| Slc4a1 | 0.14742601 | 5.88927923 | 1.41978595 | 0.24744946 | 0.30685534 |
| Dusp11 | 0.1614695 | 6.38920136 | 1.41877527 | 0.24761216 | 0.30699428 |
| Nelfa  | 0.1903089 | 4.89453732 | 1.41870056 | 0.24762419 | 0.30699428 |
| Igfals | -1.904133 | -2.2123969 | 1.41835573 | 0.24767974 | 0.30702429 |
| Trpc4ap| 0.16497165 | 5.32545809 | 1.41690913 | 0.24791294 | 0.3072554 |
| St3gal5| 0.18746427 | 6.4731257 | 1.41681006 | 0.24792892 | 0.3072554 |
| Cep41  | 0.41209643 | 2.89860501 | 1.41622001 | 0.24802412 | 0.30727801 |
| Fbxo47 | 0.55538885 | 1.25856779 | 1.41615649 | 0.24803437 | 0.30727801 |
| Zfp839 | 0.17980803 | 5.26943064 | 1.41611375 | 0.24804127 | 0.30727801 |
| Syne4  | 1.45377824 | -1.3494945 | 1.41566628 | 0.24811351 | 0.30732864 |
| Fbxo38 | 0.1498658 | 5.22070644 | 1.41499838 | 0.24822139 | 0.30742339 |
| Zbtb49 | 0.43314534 | 1.51435636 | 1.41358748 | 0.24844947 | 0.30766697 |
| Zfp820 | -0.5037165 | 1.39759634 | 1.41255861 | 0.24861597 | 0.30782002 |
| Gene      | Value1 | Value2  | Value3  | Value4  |
|-----------|--------|---------|---------|---------|
| Ptprb     | 0.39462684 | 5.31799751 | 1.4124354 | 0.24863592 | 0.30782002 |
| Hist2h2be | -0.2416045 | 6.00580263 | 1.4120388 | 0.24870014 | 0.30785891 |
| Wnt1      | -1.0908136 | -1.3555042 | 1.41185328 | 0.24873019 | 0.30785891 |
| Gfap      | -0.2645451 | 4.21164272 | 1.4104419 | 0.24895896 | 0.30810313 |
| Smyd1     | 0.76401895 | 1.45294208 | 1.41023039 | 0.24899326 | 0.30810666 |
| Btbd2     | 0.24170292 | 4.50350605 | 1.4098348 | 0.24905744 | 0.30814715 |
| Arhgap35  | 0.15516675 | 8.93178848 | 1.40919204 | 0.24916177 | 0.30821129 |
| AnkhD1    | 0.16939527 | 7.51690378 | 1.40912771 | 0.24917221 | 0.30821129 |
| Cyth3     | -0.2148972 | 6.99938131 | 1.40885157 | 0.24921706 | 0.30822783 |
| S100pdp   | -0.2000788 | 5.02257202 | 1.40832985 | 0.2493018 | 0.30827791 |
| Mdga1     | 0.41489486 | 2.48382082 | 1.40821482 | 0.24932049 | 0.30827791 |
| C2cd4c    | -0.4176004 | 3.3817538 | 1.40770583 | 0.24940322 | 0.30834128 |
| Arid5a    | -0.4567136 | 1.19531805 | 1.40705888 | 0.24950841 | 0.30841721 |
| Tyw3      | -0.3433291 | 3.04954393 | 1.40694087 | 0.24952761 | 0.30841721 |
| 1500017E21l | -1.5316496 | -1.8060662 | 1.40669175 | 0.24956813 | 0.30842838 |
| Riok2     | 0.164183 | 5.09861726 | 1.40646786 | 0.24960457 | 0.30843449 |
| Dap3      | 0.17462364 | 4.8301408 | 1.40614816 | 0.2496566 | 0.30845988 |
| Ufsp2     | -0.1904408 | 5.28542917 | 1.40518393 | 0.24981361 | 0.30861494 |
| Gm10474   | 1.61564683 | -1.5017368 | 1.40455404 | 0.24991625 | 0.30867472 |
| Araf      | 0.14558245 | 7.24708396 | 1.40450022 | 0.24992502 | 0.30867472 |
| Pick1     | 0.23523948 | 3.57902935 | 1.4035874 | 0.25007387 | 0.30876217 |
| Orc2      | 0.170711 | 5.78244805 | 1.4035601 | 0.25007833 | 0.30876217 |
| Hdac7     | 0.24409466 | 3.70229096 | 1.40348614 | 0.25009039 | 0.30876217 |
| Prpf3     | -0.2101839 | 4.35903595 | 1.40307405 | 0.25015763 | 0.30880626 |
| Steap2    | 0.16988537 | 4.92439914 | 1.40208105 | 0.25031975 | 0.30896746 |
| Rbm4b     | -0.2176055 | 4.34630072 | 1.40147777 | 0.25041832 | 0.30905017 |
| Lrrc17    | -0.7410274 | 0.06156484 | 1.40021212 | 0.25062526 | 0.30925383 |
| Ncam2     | 0.20259634 | 7.16289986 | 1.39962746 | 0.25072093 | 0.30925383 |
| Elf2      | -0.2177686 | 6.74349939 | 1.39958745 | 0.25072748 | 0.30925383 |
| E330033B04 | 0.49818397 | 2.95242948 | 1.39952156 | 0.25073826 | 0.30925383 |
| Smyd4     | 0.31793186 | 2.62051006 | 1.39950364 | 0.2507412 | 0.30925383 |
| C130046K22l | -0.3539458 | 2.95526203 | 1.39880761 | 0.25085516 | 0.30935544 |
| Mtcl1     | 0.27647201 | 5.72007567 | 1.39756441 | 0.25105889 | 0.30956771 |
| Wscd1     | 0.24441336 | 3.74854037 | 1.39720893 | 0.25111719 | 0.30960061 |
| Ext2      | 0.3901031 | 5.05571587 | 1.39688073 | 0.25117102 | 0.30962802 |
| Tns3      | 0.14594488 | 6.05708022 | 1.39653791 | 0.25122727 | 0.30965839 |
| BC029214  | -0.2602619 | 3.49030025 | 1.39576846 | 0.25135358 | 0.3097751 |
| Eif6      | -0.2923668 | 3.48628276 | 1.39550463 | 0.25139691 | 0.30977762 |
| Fastkd1   | 0.31755706 | 2.74592134 | 1.39523423 | 0.25144133 | 0.30977762 |
| Pcbld2    | -0.3190668 | 4.06968922 | 1.39515207 | 0.25145483 | 0.30977762 |
| Speer4e   | -1.2183541 | -1.3641308 | 1.39489211 | 0.25149755 | 0.30977762 |
| Ap5m1     | 0.28643878 | 3.37570823 | 1.39479347 | 0.25151376 | 0.30977762 |
| Rab2b     | -0.157661 | 5.9805312 | 1.39459409 | 0.25154653 | 0.30977903 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Canx   | 0.16508858 | 7.9635512 | 1.39426946 | 0.25159989 | 0.3098058 |
| Diap2  | 0.17943611 | 7.4642199 | 1.3940661 | 0.25163334 | 0.30980803 |
| Exoc1  | 0.23853557 | 5.66903012 | 1.3937451 | 0.25168613 | 0.30983409 |
| Dctn6  | -0.2258922 | 6.37633636 | 1.3931667 | 0.2517813 | 0.30984106 |
| Has3   | 0.51202115 | 1.97224757 | 1.39315928 | 0.25178252 | 0.30984106 |
| Rfxp1  | 0.55039107 | 2.35363465 | 1.39313996 | 0.25178668 | 0.30984106 |
| Mat2b  | -0.1393343 | 7.44759251 | 1.39248302 | 0.25189385 | 0.30993399 |
| Rxrg   | 0.46489778 | 0.91500745 | 1.39127037 | 0.25209364 | 0.31014086 |
| Zap70  | -1.3963877 | -1.6527262 | 1.39080565 | 0.25217026 | 0.31019616 |
| Mrps23 | -0.2187448 | 4.23293926 | 1.38966582 | 0.25235831 | 0.31037599 |
| Tbck   | 0.22856228 | 4.68675334 | 1.38953556 | 0.25237982 | 0.31037599 |
| Lgr6   | 1.17406612 | -0.8661721 | 1.38926976 | 0.2524237 | 0.31039098 |
| Cdr2l  | -0.2457861 | 3.23007911 | 1.38896158 | 0.25247459 | 0.3104146 |
| Yeats2 | 0.16496406 | 5.59772497 | 1.38853686 | 0.25254475 | 0.31046189 |
| Ston1  | -0.3889433 | 4.79793078 | 1.38814134 | 0.25261011 | 0.31050327 |
| Wwp1   | -0.1599397 | 7.5347871 | 1.38788991 | 0.25265167 | 0.31050327 |
| Ebag9  | -0.1370219 | 5.98741643 | 1.38775784 | 0.25267351 | 0.31050327 |
| Fbxo21 | 0.19152064 | 5.66249624 | 1.3874727 | 0.25272066 | 0.31052225 |
| Tmem60 | -0.1924518 | 5.36769151 | 1.38680874 | 0.25283049 | 0.31053082 |
| Rabe1p | -0.1396915 | 7.91370563 | 1.38679294 | 0.2528331 | 0.31053082 |
| Slc38a1 | 0.14884641 | 7.61637541 | 1.38655556 | 0.25287239 | 0.31053082 |
| Kcnab1 | 0.17748743 | 5.30295476 | 1.38651085 | 0.25287979 | 0.31053082 |
| Lrrc8e | 0.68686387 | -0.1319681 | 1.38618161 | 0.25293429 | 0.31053082 |
| Slc29a3 | 0.21439445 | 5.26561223 | 1.38600151 | 0.25296411 | 0.31053082 |
| Npat   | 0.17667571 | 5.99288499 | 1.38581396 | 0.25299516 | 0.31053082 |
| Gins1  | -0.8888462 | 0.15266599 | 1.38573975 | 0.25300745 | 0.31053082 |
| Polr1c | 0.2514292 | 4.05554449 | 1.38564167 | 0.25302295 | 0.31053082 |
| Caprin1 | 0.11621348 | 8.54069451 | 1.38551518 | 0.25304465 | 0.31053082 |
| Zfp30  | -0.2381621 | 3.69679721 | 1.38507594 | 0.25311743 | 0.31057533 |
| Ddc    | 0.47574379 | 1.34508419 | 1.38492243 | 0.25314286 | 0.31057533 |
| Zc3hav1l | -0.216979 | 6.00486285 | 1.38470645 | 0.25317866 | 0.31057855 |
| Ptchd2 | 0.35461629 | 2.78492461 | 1.38421368 | 0.25326036 | 0.31062015 |
| Nmi   | -0.400475 | 3.19911829 | 1.38385482 | 0.25331988 | 0.31062015 |
| Sorbs1 | 0.12030497 | 7.52415737 | 1.38376554 | 0.2533347 | 0.31062015 |
| Tacr3  | 0.49284171 | 1.90532315 | 1.38371797 | 0.25334259 | 0.31062015 |
| Robo4 | -0.7065672 | 0.64692429 | 1.3835459 | 0.25337113 | 0.31062015 |
| Zfp780b | 0.1777162 | 5.39516929 | 1.38333183 | 0.25340666 | 0.31062483 |
| Ermn  | 0.17558996 | 6.68337228 | 1.38270779 | 0.25351025 | 0.31071293 |
| Mex3c  | -0.1646235 | 5.21447884 | 1.38236478 | 0.25356722 | 0.31074386 |
| Myl12a | -0.3379488 | 6.85744348 | 1.38165434 | 0.25368525 | 0.31084963 |
| Gyg   | -0.1500241 | 5.57171995 | 1.38122148 | 0.2537572 | 0.3108989 |
| Zdhhc16 | -0.3244254 | 2.26251779 | 1.38014577 | 0.25393613 | 0.31107921 |
| Emx1  | -0.6595977 | 0.52695818 | 1.37909238 | 0.2541115 | 0.31125512 |
| Gene   | x   | y   | z   | w   | u   | v   |
|--------|-----|-----|-----|-----|-----|-----|
| Actr8  | 0.19585681 | 4.68296503 | 1.37884832 | 0.25415261 | 0.31126599 |
| Slc25a36 | 0.16701762 | 4.98566063 | 1.37836493 | 0.25423271 | 0.31132572 |
| Prkcz  | -0.3830036 | 2.94313215 | 1.37795572 | 0.25430092 | 0.31137032 |
| Pcdha7 | 0.85418441 | -0.6336059 | 1.37749864 | 0.25437714 | 0.31142472 |
| Hnrnph2 | -0.1313455 | 7.21234144 | 1.37723373 | 0.25442133 | 0.31143989 |
| Cbx2   | -0.6053605 | 1.04972225 | 1.37689041 | 0.25447861 | 0.31147109 |
| Gcm1   | 1.20550409 | -1.3960054 | 1.37642354 | 0.25455653 | 0.31152753 |
| Snord104 | -1.2226499 | -1.7075835 | 1.37610087 | 0.25461041 | 0.31155454 |
| Rrm1   | 0.19904433 | 4.32761159 | 1.37565531 | 0.25468842 | 0.31160667 |
| Gna1   | -0.1447393 | 9.05039895 | 1.37511527 | 0.25477506 | 0.31167227 |
| Thyn1  | -0.2970377 | 3.45391414 | 1.37483305 | 0.25482223 | 0.31167227 |
| Ccnd1  | -0.2272418 | 6.16639767 | 1.37476327 | 0.25483389 | 0.31167227 |
| Cdc34  | -0.3592023 | 3.16329513 | 1.37406367 | 0.25495088 | 0.31170606 |
| Tdrd7  | 0.18170082 | 4.68204311 | 1.37401243 | 0.25495946 | 0.31170606 |
| Arhgap44 | 0.15194062 | 6.68127894 | 1.37378682 | 0.2549972 | 0.31170606 |
| Gm12522 | 0.55359659 | 1.18137555 | 1.37352004 | 0.25504184 | 0.31170606 |
| Ifitm1  | -0.3068377 | 5.15849788 | 1.37339939 | 0.25506204 | 0.31170606 |
| Fam168b | -0.1571285 | 8.42329081 | 1.37334522 | 0.2550711 | 0.31170606 |
| Panx2  | 0.24824168 | 4.05650636 | 1.37326656 | 0.25508427 | 0.31170606 |
| A730020E08 | 0.3808093 | 2.69495924 | 1.37274864 | 0.25517098 | 0.31176163 |
| 4930430F08I | -0.2428547 | 3.77965773 | 1.37261477 | 0.2551934 | 0.31176163 |
| Nog    | 0.73915012 | -0.0920429 | 1.37234367 | 0.25523881 | 0.31177822 |
| Amer2  | 0.2327102 | 4.18477025 | 1.37198203 | 0.25529941 | 0.31181335 |
| Syt11  | 0.18558435 | 8.29352381 | 1.37139787 | 0.25539732 | 0.31181777 |
| Rps27a | -0.1910197 | 6.62252119 | 1.37120456 | 0.25542973 | 0.31181777 |
| Krt18  | 1.5376129 | -1.65661113 | 1.37085008 | 0.25548918 | 0.31181777 |
| Rgs22  | 0.75382587 | 0.3420577 | 1.37084363 | 0.25549027 | 0.31181777 |
| Ercc3  | 0.21012606 | 4.21185262 | 1.37069498 | 0.2555152 | 0.31181777 |
| Zfp235 | 0.30449104 | 3.30221274 | 1.37055749 | 0.25553827 | 0.31181777 |
| 02-Mar | -0.1970761 | 4.75045565 | 1.36884243 | 0.25582623 | 0.31214685 |
| Mettl20 | -0.347892 | 2.58159646 | 1.36878109 | 0.25583654 | 0.31214685 |
| Zfp930 | 0.23994414 | 4.10431084 | 1.36848911 | 0.25588561 | 0.31214685 |
| Acot5  | -0.9826156 | 0.37298916 | 1.36845628 | 0.25589112 | 0.31214685 |
| Megf11 | 0.19592281 | 5.52647012 | 1.36717896 | 0.25610593 | 0.31236998 |
| Atp8a2 | 0.37452066 | 3.82763017 | 1.36666587 | 0.25619229 | 0.3124057 |
| Dmrt3  | 2.19681153 | -1.5248204 | 1.36639133 | 0.25623851 | 0.3124057 |
| Pla2g4e | 0.21934652 | 4.55148466 | 1.36629883 | 0.25625409 | 0.3124057 |
| Ssr3   | -0.1910683 | 8.00002703 | 1.36624711 | 0.2562628 | 0.3124057 |
| Tmem176a | 0.37139273 | 4.32210892 | 1.36599444 | 0.25630535 | 0.3124187 |
| Emp1   | -0.4002113 | 3.82778592 | 1.36563944 | 0.25636515 | 0.31245271 |
| Hnrnpl | 0.1866312 | 5.22655387 | 1.36514401 | 0.25644865 | 0.31251559 |
| Smad7  | 0.28534426 | 3.43137267 | 1.36430393 | 0.2565903 | 0.31264931 |
| Wnt7a  | 0.48365016 | 1.63757621 | 1.36408042 | 0.25662801 | 0.31265472 |
| Gene    | Value1 | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  | Value11  | Value12  | Value13  |
|---------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ubac2   | 0.28864| 2.53218994 | 1.3638926 | 0.25665857 | 0.31265472 |
| Mir181b-2 | 1.52794799 | -1.1861624 | 1.36351043 | 0.25672419 | 0.31269577 |
| Fgf9    | 0.2258262 | 4.84515337 | 1.36298777 | 0.25681244 | 0.31275852 |
| Ube2g2  | -0.2304121 | 4.67683069 | 1.36282709 | 0.25683957 | 0.31275852 |
| Commd5  | -0.4238213 | 2.05512367 | 1.36261363 | 0.25687563 | 0.31276355 |
| Gjb2    | -0.2702231 | 9.09863828 | 1.36229257 | 0.25692987 | 0.31279071 |
| Abhd13  | 0.15768167 | 5.20449293 | 1.36159186 | 0.25704831 | 0.31285024 |
| 9430083A17 | 0.68951137 | 1.31944819 | 1.36154526 | 0.25705619 | 0.31285024 |
| Zfp280d | 0.22235958 | 6.75746108 | 1.36138272 | 0.25708367 | 0.31285024 |
| Rnf152  | -0.1541204 | 6.19103377 | 1.36124756 | 0.25710653 | 0.31285024 |
| Ubal1   | -0.2115901 | 4.48217382 | 1.36062544 | 0.25721177 | 0.31289605 |
| Naif1   | -0.6920042 | 0.03808639 | 1.36045344 | 0.25724089 | 0.31289605 |
| Foxf1   | -1.6885969 | -1.9447467 | 1.36028257 | 0.25726982 | 0.31289605 |
| Stx12   | -0.1404814 | 7.93683339 | 1.36026989 | 0.25727194 | 0.31289605 |
| Scarf2  | 0.65782733 | 1.58556916 | 1.35963933 | 0.25737871 | 0.31292896 |
| Pfkfb3  | 0.19216661 | 4.54080087 | 1.35961822 | 0.25738228 | 0.31292896 |
| Pparg   | 0.46740086 | 1.72385308 | 1.35953966 | 0.25739559 | 0.31292896 |
| Hemk1   | -0.4274298 | 1.69722115 | 1.35930928 | 0.25743461 | 0.31293164 |
| Map7d1  | -0.1852114 | 6.98034278 | 1.35899819 | 0.25748732 | 0.31293164 |
| Aftph   | -0.147402 | 6.94774223 | 1.35896529 | 0.25749289 | 0.31293164 |
| Dner    | 0.25441115 | 5.47834739 | 1.35764058 | 0.2577175  | 0.31316575 |
| Cdy1    | -0.1890573 | 4.10914746 | 1.35674163 | 0.25787007 | 0.31328003 |
| Zfp619  | 0.27371743 | 2.83341509 | 1.35670956 | 0.25787551 | 0.31328003 |
| Kars    | -0.1885488 | 5.13841216 | 1.35639095 | 0.25792961 | 0.3133052 |
| Nqo1    | -0.4255163 | 4.40171669 | 1.35615872 | 0.25796906 | 0.3133052 |
| Tmem194b | 0.57434915 | 2.10193843 | 1.35596655 | 0.2580017  | 0.3133052 |
| Irf2bp1 | -0.2127658 | 3.91958908 | 1.35583431 | 0.25802417 | 0.3133052 |
| Prmt7   | -0.3044407 | 3.30379527 | 1.35391088 | 0.25835126 | 0.31366349 |
| If3     | 0.15018912 | 5.74793852 | 1.35234684 | 0.25861763 | 0.31394797 |
| 2310009A05 | -0.3880083 | 2.69505631 | 1.35161784 | 0.25874191 | 0.31405992 |
| Lrp2bp  | 0.80891517 | 0.78292561 | 1.3514248  | 0.25877483 | 0.31406096 |
| Rab37   | 0.67223252 | 0.41174114 | 1.35112694 | 0.25882564 | 0.31408371 |
| Tubb3   | -0.212847 | 4.68233189 | 1.35086866 | 0.2588697 | 0.31409827 |
| Trim44  | -0.1142538 | 9.18709954 | 1.35034263 | 0.25895949 | 0.31415209 |
| Dag1    | 0.21007404 | 6.67986052 | 1.34966777 | 0.25907473 | 0.31415209 |
| Opa1    | 0.16886894 | 7.78864065 | 1.34964503 | 0.25907862 | 0.31415209 |
| Scnm1   | -0.2580067 | 4.02330932 | 1.34961103 | 0.25908442 | 0.31415209 |
| Fam210a | 0.15248308 | 6.44242624 | 1.34957548 | 0.2590905 | 0.31415209 |
| Ppp3cc  | -0.1865722 | 5.04839543 | 1.34932475 | 0.25913333 | 0.31415209 |
| Dbil5   | 1.29130415 | -1.4337472 | 1.34929417 | 0.25913856 | 0.31415209 |
| Samd4   | 0.16712401 | 7.26723062 | 1.34890524 | 0.25920503 | 0.31416207 |
| Lpcat1  | 0.35730379 | 2.86572616 | 1.34881812 | 0.25921992 | 0.31416207 |
| Fech    | -0.1634257 | 7.02489319 | 1.34868307 | 0.25924301 | 0.31416207 |
| Gene       | N    | A01   | A02   | A03   | A04   |
|------------|------|-------|-------|-------|-------|
| Nkx2-2     | 0.59 | 0.88  | 1.34  | 0.26  | 0.31  |
| AW011738   | -0.43 | 2.60 | 1.35  | 0.26  | 0.31  |
| Ppp3r1     | 0.13 | 10.09 | 1.36  | 0.26  | 0.31  |
| Fut10      | -0.26 | 3.62 | 1.35  | 0.26  | 0.31  |
| Ndusfs2    | -0.19 | 6.64 | 1.35  | 0.26  | 0.31  |
| Slc8a3     | 0.32 | 3.92 | 1.34  | 0.26  | 0.31  |
| Angptl3    | 0.87 | 3.11 | 1.34  | 0.26  | 0.31  |
| Ptger1     | -0.25 | 3.11 | 1.34  | 0.26  | 0.31  |
| Usp39      | -0.22 | 4.17 | 1.34  | 0.26  | 0.31  |
| 2210408F21 | 0.37 | 2.44 | 1.34  | 0.26  | 0.31  |
| Krt25      | 1.60 | -1.54 | 1.34  | 0.26  | 0.31  |
| Opcml      | 0.19 | 8.17 | 1.34  | 0.26  | 0.31  |
| S100a6     | -0.34 | 5.94 | 1.34  | 0.26  | 0.31  |
| Grik3      | 0.25 | 5.75 | 1.34  | 0.26  | 0.31  |
| Ccddc6     | 0.15 | 5.96 | 1.34  | 0.26  | 0.31  |
| Slc18a3    | -0.86 | 0.02 | 1.34  | 0.26  | 0.31  |
| 9030617O03 | -0.29 | 2.99 | 1.34  | 0.26  | 0.31  |
| Ankrd40    | -0.12 | 7.06 | 1.34  | 0.26  | 0.31  |
| Ap3d1      | 0.21 | 6.40 | 1.34  | 0.26  | 0.31  |
| Angptl4    | -0.43 | 2.19 | 1.34  | 0.26  | 0.31  |
| Lepre1     | 0.32 | 2.22 | 1.34  | 0.26  | 0.31  |
| Ckmt2      | 1.44 | -1.04 | 1.34  | 0.26  | 0.31  |
| Gm4925     | 0.95 | -0.07 | 1.34  | 0.26  | 0.31  |
| Clvs1      | -0.20 | 4.16 | 1.34  | 0.26  | 0.31  |
| Plekhh2    | 0.13 | 6.30 | 1.34  | 0.26  | 0.31  |
| Ece1       | 0.19 | 5.98 | 1.34  | 0.26  | 0.31  |
| Mcm3ap     | 0.28 | 4.45 | 1.34  | 0.26  | 0.31  |
| Foxr1      | 0.88 | -1.08 | 1.34  | 0.26  | 0.31  |
| Snx8       | 0.42 | 1.59 | 1.34  | 0.26  | 0.31  |
| B130034C11 | -0.74 | 0.87 | 1.34  | 0.26  | 0.31  |
| Zfp420     | -0.19 | 4.40 | 1.34  | 0.26  | 0.31  |
| Mttp       | 0.37 | 2.01 | 1.33  | 0.26  | 0.31  |
| S100a11    | -0.28 | 9.50 | 1.33  | 0.26  | 0.31  |
| Grb2       | -0.16 | 5.16 | 1.33  | 0.26  | 0.31  |
| Map3k12    | 0.21 | 5.62 | 1.33  | 0.26  | 0.31  |
| Spag4      | 1.30 | -1.61 | 1.33  | 0.26  | 0.31  |
| B02004J07  | 0.71 | 0.19 | 1.33  | 0.26  | 0.31  |
| Pde4a      | 0.21 | 6.32 | 1.33  | 0.26  | 0.31  |
| Rfesd      | -0.22 | 4.17 | 1.33  | 0.26  | 0.31  |
| Dxo        | 0.30 | 2.09 | 1.33  | 0.26  | 0.31  |
| Rps3       | -0.27 | 6.97 | 1.33  | 0.26  | 0.31  |
| Ebp        | -0.32 | 2.65 | 1.33  | 0.26  | 0.31  |
| Dcbld2     | 0.16 | 5.26 | 1.33  | 0.26  | 0.31  |
| Gene   | Traf7  | Mir690 | Ccdc64 | Dgka | A130010J15f | Slc25a15 | Tulp2 | Arrdc1 | 1700105P06f | Dpy19l1 | Amn1 | Dnd1 | Ank1b | Rnaseh2b | Acot10 | Csk | Ppl | Pamr1 | Luzp2 | 2310067B10 | Sh3bp5l | Kcnc3 | Poc1a | Lss | D11Ws47e | Zbp1 | Ap2s1 | Gm14322 | Ncoa2 | Psph | Actr3 | Fbxw2 | Hmbox1 | Rfc1  | Ppp1r3g | Cdkn2aip | 4930556M15 | Snora31 | Cul5 | Temp4 | Kctd1 | Soc5 | Rnf103 |
|--------|--------|--------|--------|------|------------|----------|--------|--------|-----------|----------|-------|------|-------|-------|---------|--------|------|-----|-------|-------|----------|--------|------|-----|-------|------|-------|-------|-------|--------|-------|      |       |       |      |       |       |       |        |       |      |       |      |       |       |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   |
|--------|----------|----------|----------|----------|----------|
| Sgta   | -0.2136427 | 4.96266654 | 1.31673665 | 0.26478088 | 0.31745622 |
| Phb2   | -0.1895026 | 5.0191574 | 1.31632838 | 0.26485266 | 0.31750341 |
| 201032OM1 | -0.4928147 | 1.75692754 | 1.31605391 | 0.26490092 | 0.31752241 |
| Hnrnpll | 0.14398777 | 6.34844981 | 1.31583763 | 0.26493896 | 0.31752915 |
| 1700030K09I | 0.50928586 | 1.60509031 | 1.31537207 | 0.26502087 | 0.31758847 |
| Tcp10b | 1.49146889 | -1.9858622 | 1.31457298 | 0.26516154 | 0.31770145 |
| Limd1  | -0.2703576 | 5.16136736 | 1.31446801 | 0.26518003 | 0.31770145 |
| Il2ra  | 0.47392932 | 1.922807 | 1.31411054 | 0.26524299 | 0.31773803 |
| Cldn12 | 0.1696236 | 5.41596748 | 1.31373358 | 0.26530941 | 0.31777873 |
| Frzb   | 0.28894637 | 3.21545134 | 1.31337811 | 0.26537207 | 0.31781491 |
| Fermt3 | 0.69215307 | 0.28907828 | 1.31318936 | 0.26540534 | 0.31781591 |
| Trim28 | 0.14800991 | 5.90610985 | 1.31296044 | 0.26544571 | 0.31782539 |
| Tm2d3 | -0.2589126 | 3.24777264 | 1.31224218 | 0.26557241 | 0.31793823 |
| Hsp90aa1 | 0.16747685 | 10.9285529 | 1.31194044 | 0.26562566 | 0.31795168 |
| Fbxo31 | -0.3109967 | 3.94589921 | 1.31179174 | 0.26565191 | 0.31795168 |
| Crip1  | -0.4630499 | 2.42763612 | 1.31162684 | 0.26568102 | 0.31795168 |
| Pcbd1  | -0.3468158 | 1.94610971 | 1.31104228 | 0.26578425 | 0.31802488 |
| Akna   | -0.2446849 | 3.34321702 | 1.31072488 | 0.26584033 | 0.31802488 |
| Tmem184b | 0.17501033 | 4.72598387 | 1.31071951 | 0.26584128 | 0.31802488 |
| Prr4t  | 0.92579275 | -0.6122405 | 1.31054531 | 0.26587206 | 0.31802488 |
| Atp1a3 | 0.20980613 | 9.48253758 | 1.310096 | 0.26595147 | 0.31808103 |
| Pdk1   | -0.1495333 | 6.19472714 | 1.30971395 | 0.26601903 | 0.31808695 |
| Otx2   | -0.7972459 | 1.57621485 | 1.30970071 | 0.26602137 | 0.31808695 |
| 4930444P10I | -1.4910964 | -1.494696 | 1.30936003 | 0.26608163 | 0.31810383 |
| Il17ra | 0.17036995 | 4.71235539 | 1.30895138 | 0.26615393 | 0.31810383 |
| Cd2ap  | -0.171516 | 7.43091632 | 1.30847398 | 0.26623843 | 0.31810383 |
| Espl1  | 1.18160305 | -1.4992261 | 1.30837082 | 0.2662567 | 0.31810383 |
| BC021785 | 1.24159542 | -1.6363028 | 1.30822621 | 0.2662823 | 0.31810383 |
| Tshz1  | -0.134794 | 6.00307208 | 1.3082039 | 0.26628625 | 0.31810383 |
| Nap1l4 | -0.1743689 | 5.59025974 | 1.30808835 | 0.26630672 | 0.31810383 |
| Rrp8   | -0.2422541 | 4.19096313 | 1.3079021 | 0.2663397 | 0.31810383 |
| Abhd10 | 0.21572417 | 4.33952825 | 1.3077485 | 0.26636691 | 0.31810383 |
| Dap    | -0.275162 | 5.24106919 | 1.30767847 | 0.26637932 | 0.31810383 |
| Klf5   | -0.1852633 | 6.62739111 | 1.30753235 | 0.26640521 | 0.31810383 |
| Apol6  | 0.69168895 | -0.189787 | 1.30730772 | 0.26644501 | 0.31810383 |
| Ache   | -0.362115 | 2.62982925 | 1.30723634 | 0.26645766 | 0.31810383 |
| Rtn1   | -0.1302731 | 10.4495925 | 1.30656237 | 0.26657715 | 0.31820769 |
| Dsp    | -0.525892 | 1.66527481 | 1.30631292 | 0.26662139 | 0.31822172 |
| Map6d1 | -0.1985447 | 5.02829765 | 1.3059557 | 0.26668476 | 0.31824924 |
| 4930563F08I | 1.10521148 | -0.1062883 | 1.30571032 | 0.2667283 | 0.31824924 |
| Wdr6   | 0.19124542 | 4.85577563 | 1.30556376 | 0.26675431 | 0.31824924 |
| Aass   | 0.75738087 | 0.83297659 | 1.3054506 | 0.2667744 | 0.31824924 |
| Ptpn22 | -0.376085 | 2.35806896 | 1.30526023 | 0.26680819 | 0.31825079 |
| Gene     | Z-score | Log2 FC | p-value  | Adjusted p-value |
|----------|---------|---------|----------|------------------|
| Zmpste24 | -0.2207 | 5.5039  | 0.1304   | 0.0269           |
| Ywlag    | -0.1321 | 10.2179 | 0.1304   | 0.0269           |
| Rsad2    | 0.5715  | 1.2588  | 0.3043   | 0.0269           |
| Ispd     | -0.2836 | 3.4098  | 0.3042   | 0.0269           |
| Cd48     | -0.8133 | 0.3426  | 0.2671   | 0.0269           |
| R3hc1    | -0.2471 | 4.2678  | 0.2671   | 0.0269           |
| Lingo2   | 0.2124  | 5.2399  | 0.2671   | 0.0269           |
| Kctd14   | 0.6544  | 0.3006  | 0.2672   | 0.0269           |
| Zfp326   | 0.1551  | 5.5868  | 0.2673   | 0.0269           |
| Agpat2   | -0.5560 | 1.4129  | 0.2673   | 0.0269           |
| Pramel5  | 1.2805  | -1.7145 | 0.2674   | 0.0269           |
| 1700128F08Rik | 0.9419 | -0.8445 | 0.2675   | 0.0269           |
| Ggps1    | -0.2044 | 6.3411  | 0.2676   | 0.0269           |
| Klf15    | 0.2703  | 4.2535  | 0.2677   | 0.0269           |
| Ccdc17   | -0.4827 | 1.0772  | 0.2678   | 0.0269           |
| Palm     | -0.1683 | 4.8944  | 0.2679   | 0.0269           |
| Ilkap    | -0.2056 | 4.4468  | 0.2680   | 0.0269           |
| Erf      | -0.2991 | 3.3327  | 0.2681   | 0.0269           |
| Ncr1     | -0.8670 | 1.2319  | 0.2681   | 0.0269           |
| Rhbdf2   | 1.1354  | -1.7050 | 0.2682   | 0.0269           |
| Serinc1  | 0.1450  | 8.8030  | 0.2682   | 0.0269           |
| Lgals8   | -0.1677 | 6.1208  | 0.2683   | 0.0269           |
| Ypel1    | 0.3109  | 3.1286  | 0.2683   | 0.0269           |
| Pbk      | -1.0184 | 0.0374  | 0.2683   | 0.0269           |
| 2810032G03 | 0.3950 | 2.6196  | 0.2683   | 0.0269           |
| Cdk5rap3 | -0.2814 | 3.1590  | 0.2683   | 0.0269           |
| Ramp1    | 0.2773  | 4.1465  | 0.2683   | 0.0269           |
| Cd86     | 0.8256  | -0.1300 | 0.2683   | 0.0269           |
| 1700066M21 | 0.1626 | 4.7975  | 0.2683   | 0.0269           |
| Gpr108   | -0.3183 | 3.1088  | 0.2683   | 0.0269           |
| Gm10778  | 0.2590  | 3.9140  | 0.2683   | 0.0269           |
| Tmem120a | -0.8670 | 0.1265  | 0.2683   | 0.0269           |
| Amacr    | -0.2415 | 3.6520  | 0.2683   | 0.0269           |
| Pls3     | 0.1181  | 7.5080  | 0.2683   | 0.0269           |
| Gm15880  | 1.6253  | -0.8696 | 0.2683   | 0.0269           |
| Tapt1    | 0.1559  | 5.1378  | 0.2683   | 0.0269           |
| Grid1    | 0.3030  | 2.9240  | 0.2683   | 0.0269           |
| Zbtb42   | -0.6647 | 0.5970  | 0.2683   | 0.0269           |
| Dhrs1    | -0.1810 | 5.7016  | 0.2683   | 0.0269           |
| Cope     | -0.2094 | 4.7135  | 0.2683   | 0.0269           |
| Khdrbs2  | 0.3598  | 1.6818  | 0.2683   | 0.0269           |
| Dnajc9   | -0.1791 | 5.9183  | 0.2683   | 0.0269           |
| Lipe     | 0.3826  | 2.0049  | 0.2683   | 0.0269           |
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Tacr1   | 0.26820774 | 3.12697226 | 1.28500827 | 0.27043585 | 0.32071226 |
| Pcdha5  | 0.58123473 | 0.83410999 | 1.28499598 | 0.27043807 | 0.32071226 |
| Gde1    | -0.1824708 | 5.24696666 | 1.284948 | 0.27044674 | 0.32071226 |
| Eif3g   | -0.2035276 | 5.42210614 | 1.28483992 | 0.27046628 | 0.32071226 |
| Impa2   | 0.86160503 | -0.1342386 | 1.28480381 | 0.2704728 | 0.32071226 |
| Rps9    | -0.2708125 | 6.45473868 | 1.28457213 | 0.27051469 | 0.32071226 |
| Stk32b  | -0.3351159 | 2.80468229 | 1.28449974 | 0.27052777 | 0.32071226 |
| Colgalt2| 0.39642748 | 1.4849493 | 1.28443323 | 0.27054159 | 0.32071226 |
| Erih5   | 0.99875093 | -0.7867221 | 1.28412384 | 0.27059575 | 0.32073153 |
| Oas3    | -0.8148564 | 0.6839544 | 1.28382279 | 0.27065021 | 0.32073153 |
| Gm13826 | -0.2726436 | 2.96112639 | 1.28379035 | 0.27065608 | 0.32073153 |
| Ppie    | -0.4086291 | 1.3935998 | 1.28349338 | 0.27079318 | 0.32075618 |
| Zfp119b | 0.57478128 | 0.715587 | 1.28320212 | 0.27076269 | 0.32075618 |
| Zc3h11a | 0.12649333 | 6.83947605 | 1.28298758 | 0.27080137 | 0.32075618 |
| Snrnp35 | -0.3173532 | 3.60208092 | 1.28295172 | 0.27080786 | 0.32075618 |
| Golga5  | -0.21435 | 4.18905184 | 1.28197049 | 0.27098559 | 0.32092789 |
| Bri3    | -0.230839 | 4.3199298 | 1.2811024 | 0.27114296 | 0.32103841 |
| Anapc5  | 0.13308658 | 6.32639075 | 1.28104278 | 0.27115378 | 0.32103841 |
| Iars2   | 0.17594514 | 5.53871229 | 1.28091342 | 0.27117724 | 0.32103841 |
| Stbd1   | -0.2272714 | 4.08856523 | 1.2792095 | 0.27148653 | 0.32136167 |
| A330035P11 | -0.4651864 | 1.93256336 | 1.27889631 | 0.27154343 | 0.32136167 |
| Ccnj    | 0.28245788 | 2.89291347 | 1.27886724 | 0.27154872 | 0.32136167 |
| Gtdc1   | 0.19199725 | 6.26817212 | 1.27744722 | 0.27180691 | 0.32161034 |
| Lhx9    | 1.15712837 | -1.07217 | 1.27717886 | 0.27185574 | 0.32161034 |
| Lancl3  | 0.33901393 | 3.95821715 | 1.27686516 | 0.27191284 | 0.32161034 |
| Glipl2  | -0.437695 | 4.05857951 | 1.27683537 | 0.27191826 | 0.32161034 |
| Nova2   | 0.1993418 | 7.26096089 | 1.27680927 | 0.27192301 | 0.32161034 |
| Adamts6 | 0.45157876 | 1.791435 | 1.27659193 | 0.27196258 | 0.32161831 |
| Mboat2  | 0.30716807 | 4.15070648 | 1.27629259 | 0.27201709 | 0.32164394 |
| Tollip  | -0.1478802 | 6.59682381 | 1.27579655 | 0.27210745 | 0.32171195 |
| Naf1    | -0.2076083 | 4.34017599 | 1.27520352 | 0.27221553 | 0.32178797 |
| Golga4  | 0.12667777 | 7.9148528 | 1.2750833 | 0.27223745 | 0.32178797 |
| Bai2    | 0.26296126 | 4.57330281 | 1.27454484 | 0.27233564 | 0.32180199 |
| Sepw1   | -0.3466405 | 5.57534825 | 1.27448888 | 0.27234585 | 0.32180199 |
| Kif5b   | 0.14377283 | 8.37481273 | 1.27447784 | 0.27234787 | 0.32180199 |
| Mthfsd  | 0.42110685 | 1.83132044 | 1.27418084 | 0.27240205 | 0.32181733 |
| Aar2    | -0.298254 | 3.78509195 | 1.27404653 | 0.27242656 | 0.32181733 |
| Hist1h4i | -0.761713 | -0.2487635 | 1.2733597 | 0.27255194 | 0.32188993 |
| Zfp27   | 0.24119062 | 4.00866786 | 1.27334983 | 0.27255374 | 0.32188993 |
| Katnal2 | 1.03313615 | -0.4732178 | 1.27246465 | 0.27271543 | 0.32204206 |
| Prss35  | 0.59147868 | 0.77546363 | 1.27153277 | 0.2728858 | 0.3222044 |
| Renbp   | 0.55474749 | 2.99842113 | 1.27098783 | 0.27298549 | 0.32225796 |
| Gm5595  | 0.325773 | 2.83552425 | 1.27078753 | 0.27302215 | 0.32225796 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 | Value 13 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|----------|
| Emc3   | -0.2148518 | 5.9107534 | 1.27074539 | 0.27302986 | 0.3225796 |
| Grik5  | 0.25259651 | 5.30620687 | 1.27055565 | 0.27360649 | 0.3226012 |
| D1Erd622e | -0.144618 | 5.78632366 | 1.26969852 | 0.27322155 | 0.32240651 |
| Arih1  | 0.12240162 | 7.93081181 | 1.26948535 | 0.2732606 | 0.32240852 |
| Serpinb6b | -0.3604704 | 5.19949551 | 1.26932997 | 0.27328907 | 0.32240852 |
| Tpx2   | -0.4330073 | 1.79765562 | 1.26860013 | 0.27342286 | 0.32252751 |
| Urgcp  | 0.20992633 | 4.39058297 | 1.26737336 | 0.27364794 | 0.32272706 |
| Flywch2 | 0.40770687 | 1.0455833 | 1.26731897 | 0.27365792 | 0.32272706 |
| Fam219a| -0.2282497 | 3.871757  | 1.26710643 | 0.27369695 | 0.32273422 |
| Ostf1  | -0.1985055 | 5.90732594 | 1.26562776 | 0.27396863 | 0.32301569 |
| Fam65a | 0.21883767 | 7.33207848 | 1.26536104 | 0.27401767 | 0.32303464 |
| Grb14  | -0.2948516 | 3.48487065 | 1.26498155 | 0.27408747 | 0.32307804 |
| Cacul1 | -0.141898  | 6.85414444 | 1.2647641 | 0.27412748 | 0.32308632 |
| Pou3f1 | 0.32614122 | 2.01277333 | 1.26449319 | 0.27417733 | 0.3231062 |
| Itfg3  | -0.3647237 | 1.93936477 | 1.26309914 | 0.27443405 | 0.32327058 |
| Ssr2   | -0.3986033 | 3.49506716 | 1.26309606 | 0.27443462 | 0.32327058 |
| Trmt1l | 0.15890323 | 4.88441546 | 1.2629722 | 0.27445745 | 0.32327058 |
| Ube2q2 | -0.1515754 | 6.36693787 | 1.26293321 | 0.27446463 | 0.32327058 |
| 9330102E08 | 0.2515884 | 4.04629306 | 1.26257695 | 0.2745303 | 0.32327058 |
| Tkt    | 0.22997211 | 4.83904856 | 1.26245972 | 0.27455191 | 0.32327058 |
| Fbxo32 | 0.20617637 | 5.02528935 | 1.26236696 | 0.27456902 | 0.32327058 |
| Cdc26  | -0.3057014 | 4.58922415 | 1.26212877 | 0.27461294 | 0.32327058 |
| Srrm3  | -0.310901  | 2.95902668 | 1.26170955 | 0.27469027 | 0.32327058 |
| Pth1r  | 0.58494368 | 1.07751311 | 1.26156608 | 0.27471674 | 0.32327058 |
| Zfp119a| -0.4607418 | 1.13560126 | 1.26146067 | 0.27473619 | 0.32327058 |
| Zfp871 | 0.15482384 | 9.06013318 | 1.26130081 | 0.2747657 | 0.32327058 |
| Chn2   | -0.1401686 | 5.29458178 | 1.2612316 | 0.27477847 | 0.32327058 |
| Adamts2| 0.29689446 | 3.97568395 | 1.26118333 | 0.27478738 | 0.32327058 |
| Snx1   | -0.1486299 | 5.72601252 | 1.26105072 | 0.27481186 | 0.32327058 |
| Six1   | -0.4069732 | 5.37716334 | 1.26061735 | 0.27489188 | 0.32332588 |
| Cd99l2 | 0.20529914 | 5.75979085 | 1.2604208 | 0.27492818 | 0.32332975 |
| 5730507C01 | -0.285426 | 3.12580485 | 1.25981038 | 0.27504096 | 0.32339477 |
| Prkca  | 0.20017661 | 8.12929589 | 1.25976419 | 0.2750495 | 0.32339477 |
| Fam195a| -1.0733367 | -1.2383846 | 1.25823941 | 0.2753315 | 0.3236836 |
| Thsd7a | 0.1655953 | 6.78848442 | 1.25807873 | 0.27536123 | 0.3236836 |
| Oxr1   | -0.1330986 | 8.62710565 | 1.2574385 | 0.27547977 | 0.32378408 |
| Cep131 | 0.28758748 | 2.86455836 | 1.25686696 | 0.27558565 | 0.32384048 |
| Soat2  | 0.38963745 | 1.76274704 | 1.25666437 | 0.27562319 | 0.32384048 |
| Myt1   | 0.31095365 | 2.81373741 | 1.25655757 | 0.27564298 | 0.32384048 |
| Pm20d1 | -0.3751635 | 2.06002401 | 1.25646579 | 0.27566 | 0.32384048 |
| Kcnj13 | 0.25101509 | 6.22314713 | 1.25593821 | 0.27575781 | 0.32391654 |
| Gpr85  | 0.22273503 | 3.9713865 | 1.25537158 | 0.27586292 | 0.32400115 |
| Gchfr  | -0.8338006 | 0.21337602 | 1.25492326 | 0.27594612 | 0.32404409 |
| Gene  | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Mmp14 | -0.3930162 | 3.91261797 | 1.2548181 | 0.27596564 | 0.32404409 |
| Sp4   | 0.13830291 | 5.9452757 | 1.25428545 | 0.27606454 | 0.32412137 |
| 2900092D14 | 0.23313924 | 5.46346693 | 1.25323731 | 0.2762593 | 0.32431115 |
| Stap2 | -0.5170785 | 1.64210429 | 1.25268412 | 0.27636216 | 0.32436811 |
| Cd82  | -0.7390912 | 1.51331837 | 1.25265244 | 0.27638479 | 0.32436811 |
| Myh2  | 0.9513166 | 0.20706863 | 1.25244219 | 0.27640716 | 0.32436811 |
| Abhd2 | 0.15551563 | 6.17205916 | 1.2518139 | 0.27652407 | 0.32446643 |
| Mfsd7c| 0.56242699 | 1.40256348 | 1.25097745 | 0.27667982 | 0.3246103 |
| Khdc8b| -0.453423 | 2.2070895 | 1.25055802 | 0.2767596 | 0.32464145 |
| Lkbkg | -0.1346757 | 5.88354635 | 1.25047918 | 0.27677266 | 0.32464145 |
| Atrc3b| 0.1689583 | 4.85592865 | 1.25005966 | 0.27685085 | 0.32465673 |
| Pde4c | 0.7609651 | -0.1185333 | 1.24975683 | 0.27690731 | 0.32465673 |
| Zfp750| -0.5298893 | 2.36164251 | 1.24965193 | 0.27692687 | 0.32465673 |
| Serpinb1a| 0.46811836 | 2.21914967 | 1.24952172 | 0.27695116 | 0.32465673 |
| Acad8 | -0.1764443 | 4.24425617 | 1.24952042 | 0.2769514 | 0.32465673 |
| Abca6 | 0.42936346 | 1.65908555 | 1.24928752 | 0.27699485 | 0.3246688 |
| Ralgds| 0.13451286 | 5.87226687 | 1.24887981 | 0.27707092 | 0.32471911 |
| 5730480H06| 0.99724288 | 0.11818548 | 1.24831599 | 0.27717617 | 0.3248036 |
| Myrf | -0.2648614 | 3.72404626 | 1.24774826 | 0.2772822 | 0.32485351 |
| D130017NO8| 0.23863815 | 3.83627959 | 1.24773279 | 0.27728509 | 0.32485351 |
| Lrcsc6 | -0.7220479 | 0.36716053 | 1.24680156 | 0.27745913 | 0.32501853 |
| Syvn1 | 0.22873627 | 4.83708926 | 1.24621878 | 0.27756812 | 0.32509366 |
| Mrpl55 | -0.2802622 | 3.61984209 | 1.24610376 | 0.27758964 | 0.32509366 |
| Ctxn3 | -0.2817184 | 7.22561565 | 1.24526278 | 0.27774703 | 0.32517207 |
| Ap1g2 | 1.04617534 | 0.00113336 | 1.24518765 | 0.2777611 | 0.32517207 |
| Sde9a2 | -0.3974223 | 5.21957124 | 1.24517681 | 0.27776313 | 0.32517207 |
| Hrps12 | -0.2269514 | 4.29304503 | 1.24503661 | 0.27778938 | 0.32517207 |
| Tfas2b | -0.2247569 | 6.88693882 | 1.24438803 | 0.27791087 | 0.32524602 |
| Cul2 | 0.20398001 | 5.27435675 | 1.24434489 | 0.27791896 | 0.32524602 |
| Cltn1 | 0.16545097 | 8.08403304 | 1.24380217 | 0.27802068 | 0.32532619 |
| Pls1 | 0.23225392 | 4.03669189 | 1.24327317 | 0.27811987 | 0.32537666 |
| Traf4 | -0.270288 | 2.52163121 | 1.24309078 | 0.27815408 | 0.32537666 |
| 2310069G16 | 0.52730143 | 1.60202341 | 1.2430408 | 0.27816346 | 0.32537666 |
| Sp1 | -0.134906 | 7.09172639 | 1.24205642 | 0.27834821 | 0.32553389 |
| Cd163l1 | -1.3930673 | -1.1743733 | 1.24145191 | 0.27846175 | 0.32563342 |
| Fam27b | 0.56005471 | 0.68226812 | 1.24134044 | 0.27848269 | 0.32563342 |
| C330024D21 | 0.71163471 | 0.122273 | 1.24089164 | 0.27856703 | 0.32565519 |
| BC037704 | -0.5717427 | 1.27085945 | 1.24088753 | 0.2785678 | 0.32565519 |
| Trappc3l | 1.94652885 | -2.1751454 | 1.23990618 | 0.27875234 | 0.32583204 |
| Epb4.112 | -0.1515323 | 7.5391637 | 1.23910014 | 0.27890404 | 0.32593512 |
| Myo1h | 0.86817385 | -1.0196732 | 1.23908399 | 0.27890708 | 0.32593512 |
| Slc2a2 | 0.92406861 | -0.36637 | 1.23832817 | 0.27904942 | 0.32602614 |
| Lrrc75a | -0.25167 | 3.25761938 | 1.23830544 | 0.27905371 | 0.32602614 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   |
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| Zfp536 | 0.14776389 | 4.61730141 | 1.2378763 | 0.27913457 | 0.32602614 |
| Dnajc28 | -0.1931316 | 3.87108935 | 1.23768152 | 0.27917128 | 0.32602614 |
| Ecm1   | 0.27352835 | 3.89611697 | 1.23762962 | 0.27918107 | 0.32602614 |
| Phactr4 | -0.2451909 | 6.13209661 | 1.23761048 | 0.27918468 | 0.32602614 |
| Rab26os | 0.56978141 | 0.98218832 | 1.23681318 | 0.27933503 | 0.32616285 |
| Mad2l1 | -0.276022  | 4.07790964 | 1.23617697 | 0.27945509 | 0.32626414 |
| Me2    | -0.1783556 | 6.29207004 | 1.23566544 | 0.27955167 | 0.32629639 |
| Ctsf   | 0.36337385 | 3.07466741 | 1.23539231 | 0.27960326 | 0.32629639 |
| Dapk3  | -0.4247302 | 1.76013072 | 1.23536283 | 0.27960882 | 0.32629639 |
| Sesn2  | -0.4150459 | 2.55196552 | 1.23532503 | 0.27961596 | 0.32629639 |
| Tnip2  | 0.24535583 | 3.05890154 | 1.23512298 | 0.27965413 | 0.32630206 |
| Cav1   | -0.2749719 | 6.14573405 | 1.23410783 | 0.27984602 | 0.32641519 |
| Parp11 | 0.28609933 | 3.76435497 | 1.23410525 | 0.27984651 | 0.32641519 |
| Aff1   | -0.16706  | 7.01573603 | 1.23396345 | 0.27987333 | 0.32641519 |
| LOC381967 | 0.89189506 | -0.4098663 | 1.23390501 | 0.27988438 | 0.32641519 |
| Phf13  | -0.2629197 | 3.5556069 | 1.23333503 | 0.27999222 | 0.32650208 |
| Gm711  | 1.61765018 | -1.6191454 | 1.23275479 | 0.28010205 | 0.32653025 |
| Med29  | -0.2025789 | 3.3883453 | 1.23274773 | 0.28010339 | 0.32653025 |
| Ctnna3 | 1.03418127 | -0.1813405 | 1.23267911 | 0.28011639 | 0.32653025 |
| Sfswap | 0.26804159 | 4.61788931 | 1.23232338 | 0.28018376 | 0.32655936 |
| Casc1  | 0.85685147 | 0.6692017 | 1.23219522 | 0.28020803 | 0.32655936 |
| Zbtb3  | 1.1149576 | -0.3909106 | 1.23189718 | 0.2802645 | 0.32658631 |
| Stmn4  | -0.2443954 | 6.7672225 | 1.23170929 | 0.28030011 | 0.32658895 |
| Sdr9c7 | 1.6244519 | -1.6837212 | 1.23108744 | 0.28041799 | 0.32662651 |
| A230072C01 | 0.32061308 | 3.64761711 | 1.2310126 | 0.28043218 | 0.32662651 |
| H60b   | 0.74341525 | 0.46473753 | 1.2310116 | 0.28043237 | 0.32662651 |
| Phb    | -0.2271624 | 3.81060631 | 1.23045542 | 0.28053787 | 0.32671054 |
| Tmem192 | -0.3335353 | 2.30239886 | 1.22978292 | 0.28066551 | 0.3267805 |
| Plekhs1 | 0.85034828 | -0.1763468 | 1.22961338 | 0.2806977 | 0.3267805 |
| Scarna3b | 1.25793132 | -1.0973364 | 1.22961163 | 0.28069803 | 0.3267805 |
| 463243411R | -0.5216074 | 0.48499813 | 1.2292572 | 0.28076534 | 0.3267849 |
| Alg3   | -0.2615634 | 3.44367456 | 1.2291311 | 0.28078929 | 0.3267849 |
| Ippk   | 0.20807316 | 3.8158183 | 1.22890061 | 0.28083308 | 0.3267849 |
| Dnaja2 | -0.1104464 | 7.78861547 | 1.22888917 | 0.28083525 | 0.3267849 |
| Ddx3x  | -0.1063126 | 8.72107366 | 1.2282173 | 0.28096295 | 0.32689465 |
| Nyap1  | 0.28138991 | 2.96489102 | 1.22766726 | 0.28106755 | 0.32692608 |
| Zswim4 | 0.30665123 | 2.37334394 | 1.22757121 | 0.28108582 | 0.32692608 |
| Gm13889 | -0.3759662 | 1.54006208 | 1.22752993 | 0.28109367 | 0.32692608 |
| Ptpvr  | 1.02995035 | -0.9318184 | 1.22726946 | 0.28114323 | 0.32692608 |
| Cct8l1 | 1.72243164 | -1.1835794 | 1.22702485 | 0.28118978 | 0.32692608 |
| BC004004 | -0.2635646 | 5.27753471 | 1.22701727 | 0.28119122 | 0.32692608 |
| S1pr2  | -0.4957719 | 1.73585486 | 1.22684718 | 0.28122359 | 0.32692608 |
| Pdf    | -0.1888032 | 5.08672564 | 1.22594227 | 0.28139592 | 0.32708759 |
| Gene  | Value | Gene  | Value | Gene  | Value | Gene  | Value | Gene  | Value |
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| Eri3  | -0.2067043 | 4.21132991 | 1.22538839 | 0.28150146 | 0.32717145 |
| Arpc4  | -0.2831496 | 5.34592983 | 1.22477932 | 0.28161758 | 0.32720046 |
| Sema4a | 0.28638148 | 3.73889398 | 1.22473812 | 0.28162544 | 0.32720046 |
| Rnps1  | -0.1245008 | 6.25131145 | 1.22459617 | 0.28165252 | 0.32720046 |
| Dcdd2b | -0.2565256 | 3.77536492 | 1.22455672 | 0.28166004 | 0.32720046 |
| Srgap1 | 0.28583213 | 5.14765201 | 1.22430063 | 0.28170889 | 0.32721841 |
| Zfp560 | -0.2407875 | 4.12025676 | 1.22381289 | 0.28180197 | 0.32728771 |
| Foxk2  | -0.110776  | 6.46145582 | 1.22359482 | 0.28184366 | 0.32729488 |
| Efcalc9| 0.94561596 | -0.54916444 | 1.22340535 | 0.28187497 | 0.32729488 |
| Tchp   | -0.3750199 | 2.32131566 | 1.22283372 | 0.28198895 | 0.32738842 |
| Gna1   | 0.19497724 | 8.43372102 | 1.22224115 | 0.28210219 | 0.32740645 |
| Gale   | -0.8428854 | -0.2678959 | 1.22223774 | 0.28210284 | 0.32740645 |
| Kcn1   | 0.39167222 | 1.94683146 | 1.22222773 | 0.28210475 | 0.32740645 |
| Tmem186| 0.30390941 | 2.68750825 | 1.22140392 | 0.28226228 | 0.32755047 |
| Als2cr12| -0.8903373 | -1.0692108 | 1.22047219 | 0.28244059 | 0.32771856 |
| Rassf3 | -0.1675729 | 5.51837471 | 1.21964997 | 0.28259806 | 0.32786244 |
| 4930563E18I | 1.89427685 | -1.5944678 | 1.21940947 | 0.28264415 | 0.32787707 |
| Cnn1  | -1.4147987 | -0.3466643 | 1.21887088 | 0.28274738 | 0.32795799 |
| Zfp516 | 0.17505338 | 5.28253629 | 1.21845107 | 0.28282789 | 0.32797377 |
| Nat14 | 0.40083072 | 1.17082962 | 1.21845071 | 0.28282796 | 0.32797377 |
| Pdk3  | -0.1532707 | 5.03255319 | 1.21784136 | 0.28294487 | 0.32804764 |
| Otud5 | -0.1552769 | 5.85476213 | 1.2177696 | 0.28295864 | 0.32804764 |
| Fcho1 | 0.32180656 | 2.7911638 | 1.21751862 | 0.28300681 | 0.32806466 |
| Slc7a2 | 0.24357249 | 6.92220245 | 1.21702897 | 0.28310083 | 0.32813481 |
| Cccdc160 | -0.4194189 | 1.8488038 | 1.2159002 | 0.28331772 | 0.32834735 |
| Osbpl1 | 0.19467287 | 4.16970836 | 1.21561104 | 0.28337331 | 0.32837293 |
| D030056L22I | 0.21759599 | 4.86622 | 1.21513326 | 0.28346521 | 0.32844057 |
| Gm5535 | 1.71184372 | -1.7777729 | 1.2147567 | 0.28353766 | 0.32848566 |
| Pkdrej | 0.73321348 | 0.50668192 | 1.21365465 | 0.28374985 | 0.32868885 |
| Txnl4b | -0.2827728 | 3.25776878 | 1.21334106 | 0.28381027 | 0.32868885 |
| Tsn   | -0.1718411 | 6.2732336 | 1.2133232 | 0.28381371 | 0.32868885 |
| Gm11992 | -0.8824609 | -0.7542537 | 1.2112765 | 0.28420847 | 0.32909487 |
| Zfp184 | 0.30345242 | 2.16563795 | 1.21115721 | 0.2842315 | 0.32909487 |
| Ly75  | 1.03535559 | -0.5198203 | 1.21090605 | 0.28428 | 0.32911213 |
| Ppp1r9b | 0.14715841 | 6.66886217 | 1.21069158 | 0.28432142 | 0.32911218 |
| Mesdc2 | 0.21358968 | 6.39054405 | 1.21012809 | 0.28443029 | 0.32919914 |
| Mtg2  | 0.54791054 | 0.41438466 | 1.20999513 | 0.28445599 | 0.32919914 |
| Xpa   | -0.2116711 | 5.24649638 | 1.20960341 | 0.28453171 | 0.32924788 |
| Cnot11| -0.1710151 | 4.38164142 | 1.20932312 | 0.28458591 | 0.3292717 |
| Lamc1 | 0.16076165 | 6.02517539 | 1.20874827 | 0.28469711 | 0.32934914 |
| Fermt1| -1.0913602 | 0.35393899 | 1.20858609 | 0.2847285 | 0.32934914 |
| Arvcf | 0.22022094 | 4.0585454 | 1.2084558 | 0.28475372 | 0.32934914 |
| Pja2  | 0.1606254 | 8.93374676 | 1.20773561 | 0.28489315 | 0.3294434 |
| Gene    | Value1     | Value2     | Value3     | Value4     | Value5     | Value6     |
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| Nudt3   | -0.1850985 | 6.12764947 | 1.20768747 | 0.28490248 | 0.3294434  |
| Mtmr1   | 0.16294599 | 5.14613504 | 1.20710226 | 0.28501585 | 0.32949276 |
| Timm44  | 0.24438371 | 3.40871495 | 1.20699411 | 0.28503681 | 0.32949276 |
| Morf412 | -0.1622674 | 7.36995146 | 1.20694631 | 0.28504608 | 0.32949276 |
| 8430427H17 | 0.13491393 | 6.53254101 | 1.20665682 | 0.28510219 | 0.32951874 |
| Ppm1d   | 0.18270356 | 5.13616871 | 1.20554072 | 0.28531867 | 0.32973005 |
| Gapt    | -1.0074973 | -0.1591237 | 1.20489247 | 0.28544451 | 0.32983656 |
| Slc35e4 | 0.49755823 | 1.114314   | 1.20459838 | 0.28550163 | 0.3298414 |
| Bcor    | 0.15296088 | 5.37892961 | 1.2043828  | 0.2855435  | 0.3298414  |
| Gm8801  | -0.6063001 | -0.2353467 | 1.20435076 | 0.28554973 | 0.3298414  |
| Tifa    | -0.3018223 | 3.62939513 | 1.2039539  | 0.28562684 | 0.32989033 |
| Spoipl  | 0.22517426 | 3.63922646 | 1.20353321 | 0.28570861 | 0.32989033 |
| 3010001F23 | 0.47095499 | 1.13950441 | 1.20348984 | 0.28571704 | 0.32989033 |
| Sh3d21  | -0.5585835 | 1.01929013 | 1.2034397  | 0.28572679 | 0.32989033 |
| Cyp4a12b | -0.4397304 | 3.11657346 | 1.20305402 | 0.2858018  | 0.32991858 |
| 4921536K21 | 0.84722131 | 0.51703229 | 1.2029675  | 0.28581862 | 0.32991858 |
| U2surp  | 0.13050135 | 7.73191875 | 1.20270991 | 0.28586074 | 0.32993754 |
| Igip    | 0.17237119 | 5.87735053 | 1.20175206 | 0.28605518 | 0.33007761 |
| Vkr3    | -0.3724051 | 2.8399183  | 1.20141008 | 0.28612179 | 0.33007761 |
| Ctdsp2  | -0.2034061 | 8.00564391 | 1.20123618 | 0.28615566 | 0.33007761 |
| Galnt4  | 0.38484212 | 2.3252378  | 1.20115995 | 0.28617052 | 0.33007761 |
| Tyw5    | -0.2071995 | 4.84978132 | 1.20105266 | 0.28619142 | 0.33007761 |
| Mxd4    | -0.4134028 | 2.4850677  | 1.20104826 | 0.28619228 | 0.33007761 |
| 4930509J09f | 0.91116397 | -0.3195613 | 1.20085084 | 0.28623075 | 0.33008116 |
| Dnm2    | -0.1515798 | 5.25761461 | 1.20056483 | 0.2862865  | 0.33008116 |
| Traf1d  | 0.25454081 | 5.08967615 | 1.20051375 | 0.28629646 | 0.33008116 |
| Gpokow  | -0.1476567 | 6.8147221  | 1.19939729 | 0.28651423 | 0.33025829 |
| Pex19   | 0.15257786 | 6.27237414 | 1.19938043 | 0.28651752 | 0.33025829 |
| Col4a3bp| -0.12016338| 7.25980068 | 1.19802167 | 0.28678285 | 0.33052523 |
| Cdc42ep5 | -0.4170814 | 2.49276455 | 1.19755453 | 0.28687415 | 0.33056342 |
| D3Ertd254e | 0.21476531 | 6.52483606 | 1.19742327 | 0.28689981 | 0.33056342 |
| Cep104  | 0.17000856 | 4.65266436 | 1.19716912 | 0.2869495  | 0.33056342 |
| Thap7   | -0.328396 | 2.81002998 | 1.19716161 | 0.28695097 | 0.33056342 |
| Cpox    | -0.2124865 | 5.72688531 | 1.19690313 | 0.28700152 | 0.33058277 |
| Gprc5a  | 0.85038607 | 0.9928613  | 1.19633637 | 0.2871124  | 0.33064014 |
| H2-DMa  | -0.5033836 | 2.02322094 | 1.19630351 | 0.28711884 | 0.33064014 |
| Cdc42ep4 | -0.2905811 | 6.00259451 | 1.19584702 | 0.28720819 | 0.33069465 |
| Cenpv   | -0.2432231 | 2.83724603 | 1.19571681 | 0.28723369 | 0.33069465 |
| Twist1  | -0.3320653 | 4.73255054 | 1.19491443 | 0.28739085 | 0.3308301 |
| Ncf2    | 0.38234943 | 2.47627398 | 1.19466681 | 0.28743938 | 0.3308301 |
| Snrpa1  | -0.1764857 | 4.24823877 | 1.194506   | 0.2874709  | 0.3308301 |
| Smpd5   | -1.5504094 | -2.011353  | 1.19442675 | 0.28748644 | 0.3308301 |
| Rnf128  | 0.41482079 | 1.67447049 | 1.19423249 | 0.28752452 | 0.33083507 |
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| Gene       | Value   |
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| Lhx2       | -0.1720007 |
| Slc9a1     | 0.19636519 |
| Xlr4c      | -1.3391011 |
| Tacc1      | 0.11399766 |
| Kctd9      | -0.1762413 |
| Spink10     | -0.9698321 |
| Uba2       | 0.13670886 |
| Npas4      | 0.75710022 |
| Zfp407     | 0.19028089 |
| Whamm      | 0.35136088 |
| Mzf1       | 0.57122351 |
| Al197445   | 0.65537702 |
| Zc3h14     | -0.1363812 |
| Ltgb1bp1   | -0.1658636 |
| Erbb3      | -0.9106592 |
| Ppil3      | -0.2799489 |
| Carns1     | 0.48456153 |
| Frmd8      | -0.2047146 |
| Mprp       | 0.14434138 |
| Sema7a     | -0.1709769 |
| Shpk       | -0.6979208 |
| Arntl2     | 0.40005029 |
| Gm4432     | 0.62263889 |
| Xcl1       | 1.13314407 |
| Zfp317     | -0.216908 |
| Pcf1       | 0.18046017 |
| Trim47     | -0.51606 |
| Dpagt1     | -0.30551 |
| Smarc1d    | -0.1455813 |
| F13a1      | 0.5148425 |
| Snhg12     | 0.24097382 |
| Gm6537     | 1.24880514 |
| Actr6      | -0.2738642 |
| Slc25a14   | 0.21434898 |
| Pou5f1     | 1.449388 |
| Polr2f     | -0.3184895 |
| Pdpk1      | 0.11270708 |
| Galnt10    | -0.4313919 |
| Lrrn4      | -1.1328574 |
| Gemin7     | -0.2843146 |
| Ap2a2      | 0.12682381 |
| Gene       | Tmem256 | Ddx18      | Prickle1  | Lrrc4     | Tbcd     | Sec23ip    | H2-Q1     | Krt20     | Elovl7    | Mapkbp1   | 9630001P10l | Cyp26b1   | Clu       | Wdfy1     | Pxmp4     | Hmgl     | Sft2d2    | Irak1bp1  | I27       | Ercc1     | Ras1      | Tpgs1    | Tsnax     | Eya1      | Ddx1      | Rpa3      | Scn1b    | Rph3a     | Myo18a    | Mrpl20    | C8g       | Gal3st4   | Rlim      | Pmf1      | Lum       | Daf2      | BC030867  | Zfp647    | Ccdec126  | Pcdhgb8   | Arid3a    | Strn4     | Pvrl4     |
|------------|---------|------------|-----------|-----------|----------|------------|-----------|-----------|-----------|-----------|--------------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|            | -0.3200505 | 2.86839731 | 1.14958921 | 0.29646012 | 0.3359859 | 0.19418491 | 5.67967014 | 1.14783007 | 0.29681985 | 0.33625457 | 0.17247346 | 5.96828391 | 1.14776135 | 0.29683391 | 0.33625457 | 0.21789701 | 3.95613517 | 1.14775846 | 0.2968345 | 0.33625457 | 0.15881297 | 5.45952368 | 1.14739965 | 0.29690795 | 0.33629888 | 0.31018945 | 3.87469395 | 1.14601155 | 0.29719233 | 0.33653689 | 0.21052148 | 4.0967768 | 1.14587094 | 0.29722116 | 0.33653689 | 0.19313579 | 5.2659979 | 1.14545279 | 0.29730691 | 0.33659508 |
|            | -0.1516161 | 5.05537199 | 1.1486029 | 0.29666174 | 0.361755  | 0.1871944  | 5.9075469  | 1.14326023 | 0.29778174 | 0.3609790  | 0.5701515 | 4.37259182 | 1.14310156 | 0.29779047 | 0.3609790  | 0.2204093   | 3.31185349 | 1.14310166 | 0.29782398 | 0.3609790  | 0.60446322 | 0.21611996 | 1.14443834 | 0.29751508 | 0.3679183   | 0.2930783  | 5.38567079 | 1.14369869 | 0.29766698 | 0.368866   | 0.1871944  | 4.67529189 | 1.14331739 | 0.29794909 | 0.33701051 | 0.1941729  | 7.18135044 | 1.14171885 | 0.2980741  | 0.33705359 |
| Gene | Log2 Fold Change | p-Value |
|------|-----------------|---------|
| Ndst4 | 0.33527748      | 3.24257886 |
| Dcaf7 | 0.12621171      | 7.9744213  |
| Acat1 | -0.1460459      | 7.12008456 |
| Gramd4 | -0.2018996    | 4.03964658 |
| Nmrk1 | 0.19329069      | 4.76005865 |
| Tox4  | -0.1369854      | 5.999696   |
| 4833411C07Rik | 1.13651414 | -1.3355056 |
| Mt3   | 0.84231531      | -1.0707301 |
| Fdft1 | -0.1440873      | 6.27779223 |
| Tmem183a | -0.157058   | 5.63463001 |
| Slc22a4 | -0.2411016    | 3.02269968 |
| Rps6kb2 | 0.307141839  | 2.55862419 |
| Gm1128 | 0.86657616     | -0.8059278 |
| Mapk7 | 0.2733657      | 2.64550853 |
| Zfp593 | 0.50532396     | 0.84499048 |
| Slc45a3 | 0.84350444    | 0.25526345 |
| Nop14 | 0.15417137     | 4.94818265 |
| Dmtf1 | -0.1411776     | 6.44770029 |
| Fam78b | -0.1820967    | 6.81848028 |
| Cdc6  | -0.6220885     | 0.74257693 |
| Plac8 | 1.45637412     | -1.2201908 |
| Nubp1 | 0.34094344     | 2.29977372 |
| Ccdc63 | 1.52407187    | -2.0957611 |
| C4b   | -0.3014677     | 2.77120039 |
| Gpr50 | 1.62274182     | -1.5457712 |
| Pdcl  | -0.1794217     | 5.15656467 |
| Oser1 | -0.2364013     | 4.12300263 |
| Zfp182 | 0.16559349    | 4.90802302 |
| Pdsc1 | -0.2778065     | 4.17838695 |
| Sertd4 | -0.2830175    | 5.75548275 |
| Lrc58 | -0.177757      | 10.1415831 |
| Ubxn7 | 0.11001855     | 7.31127239 |
| Triap1 | -0.3958153     | 3.20084066 |
| Pcp4l1 | -0.2067041    | 6.03176788 |
| Ganc  | -0.2151522     | 4.43255697 |
| Ptgis | -0.3508798     | 2.96369474 |
| Med20 | -0.1712384     | 5.04033689 |
| Asphd2 | 0.26397835    | 2.68261618 |
| Rnf115 | 0.15044789    | 5.90660914 |
| Lyn   | 0.30548814     | 3.40651406 |
| Cwf19l2 | 0.14319514    | 5.62558779 |
| Ehd2  | -0.2989183     | 4.92766503 |
| Trub2 | -0.2880163     | 3.0142733 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cbl1   | -0.1752012 | 6.17443958 | 1.11961213 | 0.3026717 | 0.33964608 |
| Cacna2d4 | -0.5077959 | 1.19254656 | 1.11927298 | 0.30274298 | 0.33967389 |
| Rcbtb2  | -0.2028579 | 4.36717018 | 1.11916422 | 0.30276585 | 0.33967389 |
| Rbm38   | 0.85308298 | 0.8031753 | 1.11882904 | 0.30283632 | 0.33971405 |
| Zfp672  | 0.17862982 | 4.76502454 | 1.11850422 | 0.30290464 | 0.33975178 |
| Bcmo1   | 1.32138555 | -1.5031222 | 1.11810348 | 0.30298896 | 0.33979225 |
| Apol    | 0.42870207 | 2.40628015 | 1.11800301 | 0.3030101 | 0.33979225 |
| Pifg    | 0.39891057 | 1.56171039 | 1.11719461 | 0.30318031 | 0.3399442 |
| Tln2    | 0.15048205 | 6.80998264 | 1.11664041 | 0.30329707 | 0.34003619 |
| Tpra1   | 0.36642309 | 2.47467841 | 1.11632391 | 0.30336377 | 0.34007206 |
| Noc3l   | -0.1812738 | 4.93042067 | 1.11591437 | 0.30345012 | 0.34010575 |
| Fam214a | 0.17359132 | 5.23806352 | 1.11585201 | 0.30346327 | 0.34010575 |
| Paf1    | 0.16169 | 5.95108344 | 1.11534808 | 0.30356957 | 0.34018596 |
| Sdf2    | -0.2287319 | 4.44281333 | 1.11491765 | 0.3036604 | 0.34024883 |
| Nacc1   | 0.12396088 | 6.99277199 | 1.1144606 | 0.3037569 | 0.34027917 |
| Wdr60   | 0.20565909 | 5.41442641 | 1.11425956 | 0.30379935 | 0.34027917 |
| Acan    | 1.07361321 | -0.8003149 | 1.11411197 | 0.30383053 | 0.34027917 |
| 3110043021 | -0.2659579 | 3.97870213 | 1.11405806 | 0.30384192 | 0.34027917 |
| Lamtor2 | -0.2788876 | 4.07058306 | 1.11382563 | 0.30389102 | 0.34027917 |
| Ptp4a2  | -0.1866348 | 9.07797715 | 1.11378808 | 0.30389896 | 0.34027917 |
| Arhgap12 | 0.13188431 | 5.65828219 | 1.1134147 | 0.30397787 | 0.34027917 |
| Qk      | 0.12895458 | 9.3229642 | 1.11340523 | 0.30397987 | 0.34027917 |
| Pphl1   | -0.1307969 | 7.20904503 | 1.11330938 | 0.30400013 | 0.34027917 |
| Mycl    | -0.3112912 | 2.03148345 | 1.11308222 | 0.30404816 | 0.34029404 |
| Itpkb   | -0.2656434 | 3.35426576 | 1.11279855 | 0.30410815 | 0.34032229 |
| Snx17   | -0.2280725 | 4.55007244 | 1.11232851 | 0.30420758 | 0.34038252 |
| A2m     | 0.43344332 | 1.67001198 | 1.11215706 | 0.30424386 | 0.34038252 |
| Tox     | 0.19880862 | 5.74876714 | 1.11205146 | 0.30426621 | 0.34038252 |
| Ddx54   | -0.2251228 | 3.98407135 | 1.11181261 | 0.30431677 | 0.3404002 |
| Grid2ip | -0.551927 | 1.10690443 | 1.11100929 | 0.3044869 | 0.34051687 |
| Wfcd15b | 1.21121972 | -2.00269899 | 1.1109695 | 0.30449533 | 0.34051687 |
| C230024C17 | -1.5240299 | -1.9188972 | 1.11069165 | 0.3045542 | 0.34051687 |
| Smim22  | -1.0850882 | -0.4654635 | 1.11066372 | 0.30456012 | 0.34051687 |
| Usp28   | 0.2874152 | 3.5545743 | 1.10975351 | 0.3047531 | 0.34060898 |
| Slitrk4 | 0.18376913 | 6.29654105 | 1.10966183 | 0.30477121 | 0.34060898 |
| Hsd17b7 | 0.15714786 | 5.00823565 | 1.10963047 | 0.3047792 | 0.34060898 |
| Iglon5  | 0.24603749 | 3.56600338 | 1.10952328 | 0.30480194 | 0.34060898 |
| Cyp4b1  | -0.9967416 | -1.0150473 | 1.10945529 | 0.30481637 | 0.34060898 |
| F630042J09F | 1.07283709 | -0.9915842 | 1.10860022 | 0.30499786 | 0.34073221 |
| Casp6   | 0.32019295 | 2.37330272 | 1.10854724 | 0.30500911 | 0.34073221 |
| Dnaic2  | -1.321551 | -1.540072 | 1.10840421 | 0.30503949 | 0.34073221 |
| Tra2b   | -0.1996103 | 6.4036067 | 1.10807742 | 0.3051089 | 0.34073221 |
| Cage1   | -0.5162143 | 1.19686726 | 1.1079897 | 0.30512754 | 0.34073221 |
| Gene     | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| Zfp862-ps| -0.3021603 | 2.31865458 | 1.10795287 | 0.3051356 | 0.34073221 |
| Ggn     | -0.8569024 | -0.0259875 | 1.10718073 | 0.30529948 | 0.34083986 |
| Fam46a  | 0.1517021 | 5.75775238 | 1.10717192 | 0.30530136 | 0.34083986 |
| Nab2    | -0.2199241 | 5.10920248 | 1.10569218 | 0.30561622 | 0.34115249 |
| Lfng    | 0.74074904 | -0.3731663 | 1.10501368 | 0.30576074 | 0.34126881 |
| Gm10941 | -1.0321639 | -1.0465899 | 1.10487588 | 0.3057901 | 0.34126881 |
| Cdh20   | 0.26746551 | 3.92881565 | 1.10439333 | 0.30589295 | 0.3413447 |
| Prkce   | 0.14796439 | 8.83402021 | 1.10364895 | 0.30605171 | 0.34147549 |
| Kdelr2  | 0.26405974 | 5.18839106 | 1.10352071 | 0.30607907 | 0.34147459 |
| Cd97    | -0.2920923 | 3.10544041 | 1.10246628 | 0.30630416 | 0.34163213 |
| St8sia1 | 0.17608402 | 6.67540381 | 1.10236682 | 0.30632541 | 0.34163213 |
| Mrpl28  | -0.3194972 | 3.36146762 | 1.1023518 | 0.30632862 | 0.34163213 |
| Spo11   | -0.9966359 | 0.07250482 | 1.10220586 | 0.30635979 | 0.34163213 |
| Cirh1a  | 0.15198057 | 4.83870112 | 1.10196312 | 0.30641166 | 0.34165107 |
| Spats1  | -0.5679687 | 0.64257121 | 1.10162177 | 0.30648461 | 0.34169352 |
| Hnnpk   | -0.1260601 | 7.92294978 | 1.10082207 | 0.30665562 | 0.34183534 |
| Axin1   | -0.2438496 | 3.37018017 | 1.10070057 | 0.30668161 | 0.34183534 |
| Tmem161a| 0.28881933 | 3.19158888 | 1.10015117 | 0.30679918 | 0.34192748 |
| Nrt2c2ap| -0.3171374 | 2.05884682 | 1.0998012 | 0.30687411 | 0.34197207 |
| Spry3   | 0.26798085 | 4.21771774 | 1.09661329 | 0.30691435 | 0.34197801 |
| Unc93b1 | 0.46009753 | 3.36127615 | 1.09933069 | 0.30697488 | 0.34200655 |
| Exosc8  | -0.1873865 | 3.93105156 | 1.09911623 | 0.30702082 | 0.34201884 |
| Mfge8   | 0.31879711 | 3.1495473 | 1.09887781 | 0.30707191 | 0.34203686 |
| Bbx120  | 0.12365704 | 6.62663552 | 1.09852552 | 0.30714743 | 0.34205195 |
| 4921534H16| 1.45605278 | 0.0222078 | 1.09818318 | 0.30722083 | 0.34205195 |
| Etnk2   | -0.3164708 | 2.60113181 | 1.09806156 | 0.30724692 | 0.34205195 |
| Rbks    | -0.6175599 | 1.44680274 | 1.09788666 | 0.30728443 | 0.34205195 |
| Cd79a   | -0.4426752 | 2.13856601 | 1.09785067 | 0.30729215 | 0.34205195 |
| Fam118b | -0.2178647 | 5.23855314 | 1.09769308 | 0.30732596 | 0.34205195 |
| Brsk2   | 0.17753204 | 5.66464878 | 1.09753816 | 0.3073592 | 0.34205195 |
| 9930014A18| -0.5581577 | 0.8415086 | 1.09751198 | 0.30736482 | 0.34205195 |
| Tm6sf1  | -0.3490433 | 1.87347446 | 1.09721224 | 0.30742915 | 0.34208468 |
| Prd12   | 0.99848499 | -0.1195421 | 1.09638877 | 0.30760599 | 0.34224257 |
| Zfyve9  | -0.2336423 | 3.85483059 | 1.09551471 | 0.30779383 | 0.34240078 |
| Ell     | 0.19014166 | 3.49996243 | 1.09540184 | 0.3078181 | 0.34240078 |
| Eid2    | -0.1503488 | 5.24405361 | 1.09490562 | 0.30792483 | 0.34243094 |
| 4930426D05| 1.09423294 | -0.7480271 | 1.09484772 | 0.30793728 | 0.34243094 |
| Kirrel  | 0.27372458 | 4.57305455 | 1.09470648 | 0.30796767 | 0.34243094 |
| Lgals12 | 0.78956872 | -0.2240564 | 1.09462572 | 0.30798505 | 0.34243094 |
| Yes1    | 0.17550104 | 4.78123407 | 1.09418541 | 0.30807982 | 0.34249743 |
| Mrps6   | -0.2283235 | 4.25592822 | 1.09396512 | 0.30812725 | 0.34251129 |
| Hexb    | 0.17359537 | 4.74106074 | 1.0932435 | 0.30828268 | 0.34264518 |
| Tmem50a | -0.189486 | 5.67364444 | 1.09278496 | 0.3083815 | 0.34271613 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| Lhcr   | -1.2451941 | -1.0558066 | 1.09213013 | 0.30852271 | 0.34283416 |
| Vamp5  | 0.20735019 | 5.48863501 | 1.09168912 | 0.30861785 | 0.34290099 |
| Shfm1  | -0.1909145 | 4.75682789 | 1.09128902 | 0.30870421 | 0.34295803 |
| 1700034I23R | 0.88635234 | -0.3781941 | 1.09085633 | 0.30879763 | 0.34299986 |
| Serpine3 | 0.37829738 | 1.95541913 | 1.09079033 | 0.30881188 | 0.34299986 |
| Ube4b  | 0.12527719 | 7.77348714 | 1.0903629 | 0.30890422 | 0.34304987 |
| Wdr92  | -0.1279023 | 5.3582105 | 1.09001964 | 0.3089784 | 0.34304987 |
| Usp46  | 0.12262795 | 7.22034114 | 1.08975838 | 0.30903487 | 0.34304987 |
| 4921511C10l | 1.5246268 | -1.6615581 | 1.08967161 | 0.30905363 | 0.34304987 |
| C920006O11 | 0.36903361 | 1.74884899 | 1.08965059 | 0.30905817 | 0.34304987 |
| Arhgap5 | 0.14351727 | 8.64702615 | 1.08953764 | 0.3090826 | 0.34304987 |
| Il18   | 0.16807192 | 4.71733924 | 1.08944217 | 0.30910324 | 0.34304987 |
| Cdk12  | 0.13032368 | 7.26615932 | 1.08928568 | 0.30913709 | 0.34304987 |
| Dak    | -0.3659981 | 2.76656113 | 1.08739138 | 0.30954717 | 0.34346603 |
| Ccnk   | -0.1297264 | 6.38171229 | 1.08713742 | 0.3096022 | 0.34348818 |
| Palb2  | 0.55972266 | 0.75081152 | 1.08692426 | 0.30964841 | 0.34350054 |
| Galc   | 0.2525677 | 3.76757953 | 1.08655875 | 0.30972766 | 0.34351806 |
| Wdr44  | 0.16480337 | 4.89162934 | 1.08650018 | 0.30974036 | 0.34351806 |
| Wdr11  | 0.20107765 | 5.39380015 | 1.0863662 | 0.30976941 | 0.34351806 |
| Obscn  | 0.56527978 | 0.39962601 | 1.08596395 | 0.30985668 | 0.34354246 |
| Egln3  | -0.2196695 | 7.45130752 | 1.08594146 | 0.30986156 | 0.34354246 |
| Gm4349 | -0.5700601 | 0.61440801 | 1.08547762 | 0.30996222 | 0.34361517 |
| BC052688 | 0.3232826 | 2.15406068 | 1.0849731 | 0.31007177 | 0.34369771 |
| Cul4b  | 0.12420686 | 7.03109806 | 1.08468782 | 0.31013373 | 0.3437275 |
| Dcaf15 | -0.4288828 | 1.33317004 | 1.08390055 | 0.31030483 | 0.34387822 |
| Tuba1a | -0.113808 | 9.67220925 | 1.0837041 | 0.31034754 | 0.34388299 |
| Begain | 0.24657387 | 3.44830392 | 1.08355786 | 0.31037934 | 0.34388299 |
| Birc2  | -0.1429499 | 5.4885812 | 1.08328838 | 0.31043796 | 0.34390903 |
| Nat2   | -0.3308997 | 3.0417629 | 1.08285881 | 0.31053142 | 0.34394489 |
| Bicd2  | -0.1455192 | 6.4485102 | 1.08266203 | 0.31057425 | 0.34394489 |
| Ncf1   | -0.2696506 | 2.38759849 | 1.08265552 | 0.31057566 | 0.34394489 |
| Gm1966 | 0.29894183 | 2.95962697 | 1.08157392 | 0.31081122 | 0.34412338 |
| Abhd14b | -0.225688 | 5.31205164 | 1.08144641 | 0.310839 | 0.34412338 |
| Pknox1 | -0.1937475 | 3.85227558 | 1.08133907 | 0.31086239 | 0.34412338 |
| Plod2  | 0.30881509 | 3.8469129 | 1.08127036 | 0.31087737 | 0.34412338 |
| 2310002D60 | -1.346545 | -1.6989495 | 1.08100473 | 0.31093527 | 0.3441859 |
| Kif3a  | 0.17509617 | 8.10931872 | 1.08070993 | 0.31099955 | 0.34418084 |
| Tank   | -0.1999354 | 6.08627914 | 1.0800872 | 0.31113539 | 0.34427232 |
| Grem1  | 0.47452823 | 0.83619109 | 1.08000879 | 0.3111525 | 0.34427232 |
| Gltp   | -0.2202631 | 5.52220233 | 1.07946675 | 0.31127081 | 0.34433362 |
| 6330419J24F | -0.2751863 | 3.50590208 | 1.0794329 | 0.31127821 | 0.34433362 |
| Pip4k2c | -0.1597378 | 6.1114067 | 1.07905371 | 0.31136101 | 0.34434455 |
| Zdhhc7 | -0.2790349 | 3.13165854 | 1.07900267 | 0.31137216 | 0.34434455 |
| Gene   | Sox1  | Kcnc2  | Epas1  | Clec16a | 4931440P22l | Iso1c | TarSl2 | Tmem200b | Prpf40a | Mas1  | Rn2   | Asap3  | Kctd4  | Adh7   | Zfp677 | Sun1  | Pla2g4d  | Noc4l  | Cartpt | Pi16   | Lct      | Ruvbl1 | Asf1a  | Stat3  | Kif1c  | Grhpr  | Gm16701 | Egfem1 | Zdhhc13 | Epc2    | Mfap3  | RsIcan18 | Wibg    | Zfp707  |
|--------|-------|--------|--------|---------|------------|--------|--------|----------|---------|-------|-------|--------|--------|--------|--------|--------|----------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gene   | Rsbn1  | 6.12056606 | 1.06248548 | 0.3150089 | 0.34662831 |
|--------|--------|------------|------------|------------|------------|
| Adams12| 0.34076071 | 2.48891366 | 1.06230163 | 0.3150497 | 0.34662831 |
| Pnlip  | 1.20614169 | -1.7420603 | 1.06220168 | 0.31507189 | 0.34662831 |
| Cntln  | -0.1369703 | 6.57104022 | 1.06213551 | 0.31508658 | 0.34662831 |
| Brd2   | -0.1091076 | 7.92473855 | 1.0613674 | 0.31525718 | 0.34673035 |
| Mir6336| 1.08367118 | -1.5248579 | 1.0611888 | 0.31529686 | 0.34673035 |
| 2810047C21l| -0.4090408 | 1.87145865 | 1.0611335 | 0.31530915 | 0.34673035 |
| P4htm  | 0.27110437 | 2.39224684 | 1.06073271 | 0.31539824 | 0.34673035 |
| Zfp69  | 0.4968294 | 0.82551149 | 1.06071371 | 0.31540246 | 0.34673035 |
| Tap2   | 0.62797008 | 0.2777487 | 1.06056685 | 0.31543512 | 0.34673035 |
| Cpone2 | -0.1657581 | 4.41297001 | 1.06055942 | 0.31543677 | 0.34673035 |
| Ptchd1 | 0.25066335 | 4.63115282 | 1.06041105 | 0.31546976 | 0.34673035 |
| Plekhf1| -0.3485318 | 3.09606806 | 1.06028449 | 0.31549791 | 0.34682999 |
| Draxin | 1.36354472 | -1.4922165 | 1.06001674 | 0.31555747 | 0.3467569 |
| Zfml   | 0.15840368 | 7.89140434 | 1.0596197 | 0.31564582 | 0.34679204 |
| Gm20594| 0.42608731 | 0.45296374 | 1.05952439 | 0.31566703 | 0.34679204 |
| Stox1  | -0.3721373 | 1.31131111 | 1.05939575 | 0.31569566 | 0.34679204 |
| Lefty2 | 1.26725032 | -1.3405723 | 1.05900404 | 0.31578288 | 0.34682999 |
| Chr3   | 0.24154254 | 3.59287046 | 1.05877269 | 0.3158344 | 0.34682999 |
| Wdr75  | 0.21027858 | 4.66345154 | 1.05876358 | 0.31583643 | 0.34682999 |
| Zdhhc3 | 0.14033248 | 5.58828289 | 1.05819597 | 0.3159629 | 0.34692997 |
| Ili1   | 0.50495742 | 0.53524101 | 1.05753283 | 0.31611074 | 0.3469853 |
| Rogdi  | -0.1762104 | 4.61086762 | 1.05752739 | 0.31611195 | 0.3469853 |
| Car15  | 0.4473253 | 2.46758281 | 1.05749328 | 0.31611956 | 0.3469853 |
| Dhx8   | 0.13963322 | 5.10622165 | 1.05706772 | 0.31621449 | 0.34705061 |
| Ghrl   | 0.70898796 | -0.638868 | 1.05678255 | 0.31627812 | 0.34708156 |
| Ugdh   | -0.1531796 | 4.62494384 | 1.05611042 | 0.31642817 | 0.34720733 |
| Setd6  | 0.15434271 | 4.8372087 | 1.05544597 | 0.3165766 | 0.34733129 |
| H2-Ob  | -1.0767361 | -0.2005902 | 1.05423263 | 0.3168479 | 0.3475637 |
| Gulp1  | -0.2400205 | 5.95941799 | 1.0541812 | 0.3168594 | 0.3475637 |
| Lrnf1  | 0.6030668 | 0.21389315 | 1.05354627 | 0.31700151 | 0.34767235 |
| Tmc7   | 0.18815696 | 4.52991918 | 1.05342152 | 0.31702944 | 0.34767235 |
| Wdr31  | 0.38363182 | 1.78852451 | 1.05312111 | 0.31709671 | 0.34770719 |
| Tjp3   | -0.9608398 | -0.8532734 | 1.05249738 | 0.31723645 | 0.34782148 |
| Gm10790| -0.779678 | -0.5039736 | 1.0519171 | 0.31736653 | 0.34788584 |
| Tvp23b | -0.1939089 | 4.76558333 | 1.05179726 | 0.3173934 | 0.34788584 |
| D030028A08| -0.3777727 | 1.33502954 | 1.05167216 | 0.31742146 | 0.34788584 |
| Atplb3 | 0.22149207 | 8.8426417 | 1.05154385 | 0.31745024 | 0.34788584 |
| Rbm4   | 0.68505418 | -0.5383219 | 1.05143537 | 0.31747457 | 0.34788584 |
| Lypla2 | 0.29742488 | 2.10910724 | 1.05123518 | 0.31751949 | 0.34788584 |
| Atat1  | -0.1449103 | 5.68342495 | 1.05112705 | 0.31754375 | 0.34788584 |
| Hif1a  | 0.15487019 | 6.51471301 | 1.05063963 | 0.31765316 | 0.34796678 |
| Fbxl2  | 0.22418494 | 4.66631756 | 1.05040493 | 0.31770585 | 0.34798559 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-------|---------|---------|---------|---------|---------|---------|
| Adh5  | -0.1507425 | 6.35142183 | 1.05024202 | 0.31774244 | 0.34798675 |
| Wif1  | -0.9332281 | -1.1356309 | 1.04976433 | 0.31784975 | 0.34806537 |
| Aip   | -0.2254928 | 5.1871287 | 1.04952767 | 0.31790294 | 0.34808469 |
| AW209491 | -0.1745793 | 4.72485102 | 1.04909111 | 0.31800108 | 0.34815323 |
| Hyls1 | -0.2920661 | 2.25186842 | 1.04883939 | 0.31805768 | 0.34817629 |
| Rcc2  | 0.13196413 | 5.31857421 | 1.0485477 | 0.3181233 | 0.3482092 |
| Scfd2 | 0.26098117 | 2.97274159 | 1.04815122 | 0.31821251 | 0.34822726 |
| 5031425E22 | -0.2562775 | 3.42439837 | 1.04772309 | 0.31830888 | 0.34822726 |
| 9530026P05I | 0.50875212 | 0.5180559 | 1.04769817 | 0.31831449 | 0.34822726 |
| Fbxo40 | -0.9579098 | -0.5305245 | 1.04769351 | 0.31831554 | 0.34822726 |
| Ankef1 | 0.71316901 | 0.39636914 | 1.04752709 | 0.31835302 | 0.34822726 |
| Slc17a7 | -0.1437896 | 7.53302562 | 1.04752675 | 0.3183531 | 0.34822726 |
| Rpl19 | -0.193763 | 7.38560878 | 1.04716487 | 0.3184346 | 0.34824385 |
| Gpr17 | 0.30036305 | 2.74550711 | 1.04703876 | 0.31846301 | 0.34824385 |
| Scrt1 | 0.21777953 | 5.3381451 | 1.0469859 | 0.31847492 | 0.34824385 |
| Btbd7 | 0.16863921 | 5.67035502 | 1.04679241 | 0.31851852 | 0.34825265 |
| Gli1  | -0.4566302 | 1.65310861 | 1.04589857 | 0.31872004 | 0.34843409 |
| Npdc1 | 0.17659177 | 4.46292027 | 1.04552025 | 0.31880539 | 0.3484765 |
| E430025E21 | 0.13652975 | 6.34156917 | 1.04541122 | 0.31882999 | 0.3484765 |
| Ddr2  | -0.2629221 | 6.27923198 | 1.04496083 | 0.31893165 | 0.34853455 |
| Uvsa  | 0.19613268 | 4.85422542 | 1.04486068 | 0.31895426 | 0.34853455 |
| I730030J21R | -1.3542075 | -1.3284042 | 1.04468196 | 0.31899461 | 0.34853976 |
| Efs   | -0.3346852 | 2.17687059 | 1.04429277 | 0.31908252 | 0.34859692 |
| Glp2r | 0.54522807 | 1.68436136 | 1.04379175 | 0.31919573 | 0.34868172 |
| Zfp956 | -0.4222737 | 2.29736313 | 1.04337321 | 0.31929035 | 0.3487106 |
| Tkbkp1 | 0.32286752 | 2.13818558 | 1.04314115 | 0.31934282 | 0.3487106 |
| Lag3  | 1.17188495 | -1.3344653 | 1.04300879 | 0.31937276 | 0.3487106 |
| Glis2 | -0.2035859 | 5.21343482 | 1.04297969 | 0.31937934 | 0.3487106 |
| Keap1 | -0.1659867 | 4.39016593 | 1.04275007 | 0.31943129 | 0.3487106 |
| Carm1 | -0.1585672 | 5.24535522 | 1.04272026 | 0.31943803 | 0.3487106 |
| Mpp7  | 0.17394433 | 4.60590607 | 1.04257291 | 0.31947137 | 0.3487106 |
| Runx1 | 0.32972064 | 3.56880583 | 1.04205319 | 0.31958901 | 0.3487605 |
| Clnd10 | 0.38588834 | 1.85072512 | 1.04194172 | 0.31961425 | 0.3487605 |
| Galnt1 | 0.16678607 | 6.23301899 | 1.04189908 | 0.3196239 | 0.3487605 |
| Ptafr | -1.0609556 | -1.0445953 | 1.04148063 | 0.31971867 | 0.34878287 |
| Emc6  | -0.197603 | 3.83980552 | 1.04136957 | 0.31974383 | 0.34878287 |
| Abcc6 | -1.0011735 | -0.8892767 | 1.04133695 | 0.31975122 | 0.34878287 |
| Mgst1 | -0.413146 | 3.65503979 | 1.04031071 | 0.31998385 | 0.34899775 |
| Npc2  | -0.296311 | 4.68547146 | 1.04003867 | 0.32004555 | 0.34902619 |
| Dusp5 | -0.6327044 | -0.2021188 | 1.03892491 | 0.32029834 | 0.34925248 |
| Wdr70 | 0.21555632 | 3.54999649 | 1.03881035 | 0.32032436 | 0.34925248 |
| Smad2 | -0.1147582 | 6.52510052 | 1.03797518 | 0.32051412 | 0.34942049 |
| Itk   | -0.8834535 | -0.1746427 | 1.03733712 | 0.32065921 | 0.34944377 |
| Gene       | Value1  | Value2  | Value3  | Value4  | Value5  |
|------------|---------|---------|---------|---------|---------|
| S1c26a4    | 0.59059678 | 1.05431985 | 1.03731364 | 0.32066455 | 0.34944377 |
| Ifi35      | -0.5047745 | 2.04781192 | 1.0372725 | 0.3206739 | 0.34944377 |
| Xpnpep3    | 0.17990875 | 4.78115851 | 1.03700475 | 0.32073481 | 0.34944377 |
| Cnih1      | -0.2045522 | 5.24449197 | 1.03698518 | 0.32073927 | 0.34944377 |
| Dnase1I1   | -0.345987 | 2.18178417 | 1.03694009 | 0.32074953 | 0.34944377 |
| Tab2       | -0.1202709 | 8.33770501 | 1.03693946 | 0.32087366 | 0.34954013 |
| Cep83os    | -0.1542298 | 5.37662296 | 1.03590521 | 0.32098512 | 0.34962267 |
| Cd200r4    | -1.5389764 | -2.3478976 | 1.03538137 | 0.32110447 | 0.34971378 |
| Rasa4      | -0.8532038 | -0.4240529 | 1.03492081 | 0.32120945 | 0.34978922 |
| Msantd1    | 1.00881442 | -0.632476 | 1.03464787 | 0.32127169 | 0.3498181 |
| Atp5sl     | -0.2396775 | 3.21692517 | 1.03391447 | 0.3214393 | 0.34992561 |
| Agap2      | 0.15510472 | 6.9295941 | 1.03384256 | 0.32145541 | 0.34992561 |
| Slr5       | -0.1772257 | 4.7971432 | 1.03374537 | 0.32147759 | 0.34992561 |
| Fam163b    | -0.1500133 | 7.61194462 | 1.0334419 | 0.32154687 | 0.34994054 |
| Srf        | 0.17331462 | 4.85046671 | 1.03337234 | 0.32156276 | 0.34994054 |
| Ccr4       | 0.69137269 | 0.09339256 | 1.03238774 | 0.32178768 | 0.35014642 |
| Nol6       | 0.16870712 | 5.48247362 | 1.03222275 | 0.3218254 | 0.35014856 |
| Pttn5      | 0.15940167 | 5.9042918 | 1.03152034 | 0.32198602 | 0.35028441 |
| Dusp27     | 0.61434538 | 1.8053028 | 1.0311047 | 0.32208112 | 0.35031203 |
| Gng11      | -0.295597 | 5.55179355 | 1.03091318 | 0.32212495 | 0.35031203 |
| Gltscr1    | 0.13472881 | 6.39227417 | 1.0306965 | 0.32217456 | 0.35031203 |
| Coro6      | 0.61414747 | 1.88178598 | 1.03067654 | 0.32217913 | 0.35031203 |
| Nfib       | 0.11922882 | 8.11049038 | 1.03062804 | 0.32219023 | 0.35031203 |
| 1700008105R| 1.3857761 | -1.3148425 | 1.03028646 | 0.32226845 | 0.35032511 |
| Gpatch11   | -0.1845493 | 5.43093597 | 1.03025991 | 0.32227453 | 0.35032511 |
| Pcdhb10    | 0.47470953 | 1.33394292 | 1.030107 | 0.32230956 | 0.35032511 |
| Snx24      | -0.2211506 | 4.98465963 | 1.02984129 | 0.32237043 | 0.35033426 |
| Gas211     | -0.2440985 | 3.8345885 | 1.02975805 | 0.3223895 | 0.35033426 |
| Gper1      | -0.3710096 | 1.96462985 | 1.02954229 | 0.32243895 | 0.35034764 |
| Ttc32      | 0.33476245 | 2.57335124 | 1.02939223 | 0.32247335 | 0.35034764 |
| Ankle2     | 0.13806655 | 5.23852826 | 1.02899768 | 0.32256381 | 0.35040706 |
| Khl5       | -0.1540862 | 5.72844719 | 1.02827237 | 0.3227302 | 0.35054836 |
| 4931403E22I| 1.84563203 | -1.295699 | 1.02803872 | 0.32278382 | 0.35054836 |
| 9830166K06l| -0.5638124 | 0.88567121 | 1.0279628 | 0.32280125 | 0.35054836 |
| Sh3yl1     | 0.26333772 | 3.06946594 | 1.02772515 | 0.32285581 | 0.35056875 |
| Irs1       | -0.1240473 | 6.08048577 | 1.02685183 | 0.32305642 | 0.3506864 |
| Gm3558     | 0.77312664 | -1.2723541 | 1.02657084 | 0.323121 | 0.3506864 |
| Cflar      | 0.12560413 | 6.86384183 | 1.02649984 | 0.32313733 | 0.3506864 |
| Fam171a1   | 0.16851368 | 5.50197085 | 1.02647995 | 0.32314199 | 0.3506864 |
| Fam172a    | -0.1407134 | 5.60771482 | 1.02645923 | 0.32314666 | 0.3506864 |
| Nrpi2      | 0.41183448 | 2.07644589 | 1.02625501 | 0.32319362 | 0.3506864 |
| Tanc1      | 0.12563016 | 5.909847 | 1.02616302 | 0.32321477 | 0.3506864 |

15-Sep -0.2150941 6.70943786 1.025572 0.32335072 0.35077808
| Gene     | Expression | p-value 1 | p-value 2 | p-value 3 | p-value 4 | p-value 5 | p-value 6 |
|----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Gp49a    | 0.95883206 | -1.1082854 | 1.02548437 | 0.32337089 | 0.35077808 |
| Fmnl3    | 0.29309655 | 3.58003564 | 1.02525073 | 0.32342466 | 0.35079756 |
| 2900056M2C | 0.18285948 | 7.95961071 | 1.0247832 | 0.3235323 | 0.35087545 |
| Slc3a1   | 0.18881539 | 4.96501028 | 1.02455557 | 0.32358472 | 0.35089346 |
| Arfgap3  | -0.2180408 | 4.63360754 | 1.02419674 | 0.32366739 | 0.35094425 |
| Dpp10    | 0.17688963 | 6.87344246 | 1.02386222 | 0.32374448 | 0.35098898 |
| Armcx2   | -0.1227385 | 5.54431266 | 1.023593 | 0.32380653 | 0.35101741 |
| Tfg      | -0.1166154 | 6.88161521 | 1.02238542 | 0.32408511 | 0.35124557 |
| Il15ra   | -0.2653374 | 2.60517085 | 1.02236976 | 0.32408872 | 0.35124557 |
| Rbm20    | -0.3148466 | 2.41221173 | 1.02192331 | 0.3241918 | 0.35131841 |
| Polr3g   | -0.2212996 | 3.14058005 | 1.02061459 | 0.32449422 | 0.35160724 |
| Gm20754  | 0.49368074 | 0.72571659 | 1.01999529 | 0.32463746 | 0.35172354 |
| Psen1    | 0.16438863 | 5.05000366 | 1.01982959 | 0.3246758 | 0.35172618 |
| Gm8773   | -1.3192189 | -1.5269507 | 1.01944136 | 0.32476566 | 0.35178462 |
| Cachd1   | -0.2324472 | 3.39907885 | 1.01881595 | 0.32491049 | 0.35190258 |
| Bex4     | -0.2224144 | 4.0910986 | 1.01860093 | 0.3249603 | 0.35191762 |
| Zfp98    | 0.16012776 | 4.07853737 | 1.01816035 | 0.3250624 | 0.35198927 |
| Abcg3    | 1.50444291 | -1.7768559 | 1.01786726 | 0.32513035 | 0.3520393 |
| Wdr1     | 0.13094593 | 6.28277704 | 1.01761119 | 0.32518972 | 0.35204931 |
| Cluap1   | 0.12990576 | 5.50407573 | 1.01719742 | 0.32528571 | 0.3521143 |
| Aplf     | 0.18088087 | 4.27157919 | 1.01649206 | 0.32544941 | 0.35225259 |
| Zfp93    | -0.2631133 | 3.83897095 | 1.01632066 | 0.32548921 | 0.35225674 |
| 1700094D03 | -0.4559122 | 1.92607072 | 1.0161573 | 0.32552715 | 0.35225888 |
| Rps27l   | -0.3298281 | 4.62792645 | 1.01595537 | 0.32557405 | 0.35227072 |
| Ube2d3   | -0.1323306 | 9.02053854 | 1.01559736 | 0.32565723 | 0.35227142 |
| Ogfod2   | 0.24291943 | 3.487368 | 1.01552325 | 0.32567446 | 0.35227142 |
| Picalm   | -0.1044551 | 8.08333013 | 1.01548823 | 0.32568259 | 0.35227142 |
| Trip12   | 0.12711176 | 8.84253983 | 1.01458398 | 0.32589284 | 0.35245991 |
| Ppp1r3e  | 0.21816944 | 4.20352793 | 1.01358319 | 0.32612576 | 0.35259935 |
| Ccdd36   | 1.14621194 | -1.4751331 | 1.01358177 | 0.32612609 | 0.35259935 |
| Pgl1     | 0.25735461 | 4.09399198 | 1.0134893 | 0.32614762 | 0.35259935 |
| Slain1   | 0.21420641 | 4.91292818 | 1.0134114 | 0.32616576 | 0.35259935 |
| Htr3a    | -0.5499484 | 0.66237424 | 1.0131033 | 0.32623752 | 0.35263802 |
| Lgals3   | 0.44730386 | 1.77857783 | 1.01291776 | 0.32628075 | 0.35264583 |
| Slc1a3   | 0.17113483 | 7.23936215 | 1.01193006 | 0.326511 | 0.35282294 |
| Btc      | 1.54339704 | -1.977228 | 1.01184176 | 0.32653159 | 0.35282294 |
| Olfr920  | 1.17303582 | -0.1309598 | 1.01164018 | 0.32657862 | 0.35282294 |
| St8sia5  | 0.25694072 | 4.23302689 | 1.01156969 | 0.3265887 | 0.35282294 |
| Rad54b   | 0.86420854 | -0.1526747 | 1.01122378 | 0.32667578 | 0.3528781 |
| Stac2    | 0.1473366 | 5.87709308 | 1.01059567 | 0.32682242 | 0.35299757 |
| Dapk1    | 0.16289762 | 5.9237312 | 1.01024052 | 0.32690538 | 0.35302481 |
| Pde6a    | -0.3184356 | 2.04928689 | 1.01017913 | 0.32691972 | 0.35302481 |
| Gp49a    | 0.77612356 | 0.04712162 | 1.00990246 | 0.32698437 | 0.3530557 |
| Gene   | Value 1 | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  |
|--------|---------|----------|----------|----------|----------|----------|----------|----------|
| Ifnar2 | -0.2205157 | 5.47723388 | 1.0965166 | 0.32704299 | 0.35308007 |
| Srgn   | -0.2197405 | 5.14252766 | 1.00882921 | 0.32723532 | 0.35318187 |
| 2310039H08 | -0.3699352 | 2.04685104 | 1.00879492 | 0.32724335 | 0.35318187 |
| Spry2  | 0.14070945 | 5.95328064 | 1.00878592 | 0.32724545 | 0.35318187 |
| Poc5   | -0.1605861 | 3.97921674 | 1.00856332 | 0.32729754 | 0.35318757 |
| 2211016F16l | -0.2027282 | 5.04382769 | 1.00845519 | 0.32732284 | 0.35318757 |
| Asb5   | -0.5249935 | 0.5376072 | 1.00721781 | 0.32761261 | 0.3534613 |
| Rgs16  | -0.2041172 | 3.66457542 | 1.00653041 | 0.32777374 | 0.35357299 |
| Trp53cor1 | 0.61011073 | -0.0263745 | 1.00638125 | 0.32780872 | 0.35357299 |
| Henmt1 | 0.92651573 | -0.5878007 | 1.00631429 | 0.32782442 | 0.35357299 |
| Cdcl4ep3 | -0.1951608 | 3.36695661 | 1.00583072 | 0.32793787 | 0.3536564 |
| S1c25a47 | 0.76568722 | -0.6245567 | 1.00527604 | 0.32806806 | 0.35375786 |
| Zfp786 | 0.62813143 | 0.13871326 | 1.00492593 | 0.32815027 | 0.35378877 |
| Gm5862 | 0.51753675 | 0.79766452 | 1.00484636 | 0.32816896 | 0.35378877 |
| Tnrc6b | 0.14025009 | 8.72502466 | 1.00450791 | 0.32824847 | 0.35383554 |
| 1700001L19f | -0.289722 | 3.38356868 | 1.00397977 | 0.32837259 | 0.35392362 |
| Fam126b | -0.1599951 | 8.29445503 | 1.0038528 | 0.32840244 | 0.35392362 |
| Chp1  | -0.2454168 | 3.44592117 | 1.0035024 | 0.32848484 | 0.35397348 |
| Ctnal1 | 0.17221942 | 4.46199785 | 1.00267728 | 0.32867898 | 0.35414372 |
| Chlf18 | 1.02690453 | -1.2665603 | 1.00207525 | 0.32882074 | 0.35416601 |
| Speer8-ps1 | 0.67153389 | 0.0963112 | 1.00166709 | 0.32891689 | 0.35416601 |
| Ppp1r18 | -0.2958233 | 3.13725075 | 1.00163277 | 0.32892498 | 0.35416601 |
| Tmppe | 0.28313558 | 3.02552922 | 1.00163111 | 0.32892537 | 0.35416601 |
| A830082K12 | -0.1445654 | 6.61205122 | 1.00148174 | 0.32896057 | 0.35416601 |
| Mitd1 | 0.2713526 | 3.3516068 | 1.00139527 | 0.32898095 | 0.35416601 |
| Lpar3  | 0.45073593 | 2.27219078 | 1.00135475 | 0.3289905 | 0.35416601 |
| St8sia6 | -0.58415 | 0.86685262 | 1.00129464 | 0.32900467 | 0.35416601 |
| Elf1   | -0.1783734 | 5.89231624 | 1.00120808 | 0.32902507 | 0.35416601 |
| Rasa3  | 0.16517649 | 5.2610341 | 1.00035311 | 0.3292267 | 0.35424534 |
| Tmem241 | -0.2566053 | 3.00809008 | 1.0024943 | 0.32925116 | 0.35424534 |
| Gpx8   | -0.2908451 | 5.63847575 | 1.00020892 | 0.32926072 | 0.35424534 |
| Adcy8  | 0.26713431 | 3.85815397 | 1.00009399 | 0.32928785 | 0.35424534 |
| Usp21  | -0.1423993 | 5.1328123 | 0.9998017 | 0.32931471 | 0.35424534 |
| Tub8   | -0.2533422 | 2.26077848 | 0.99997569 | 0.32931577 | 0.35424534 |
| Sirpb1a | 1.2731009 | -0.9216171 | 0.99953167 | 0.32942059 | 0.35431919 |
| Apod   | -0.3203924 | 10.3568368 | 0.9990575 | 0.32952355 | 0.35439102 |
| Gtf2e2 | -0.1576174 | 4.51126659 | 0.99892371 | 0.32956419 | 0.35439582 |
| Ttc26  | 0.3305232 | 2.9379197 | 0.99844917 | 0.32967634 | 0.3544775 |
| Dab1   | 0.18164743 | 6.61765701 | 0.99794616 | 0.32979527 | 0.35452507 |
| Pthr1  | -1.4258328 | -1.2887047 | 0.99785208 | 0.32981752 | 0.35452507 |
| Hspb1  | -0.3119273 | 5.07250514 | 0.99765084 | 0.32986513 | 0.35452507 |
| Angptl1 | 0.73956132 | 0.5520539 | 0.9764988 | 0.32986536 | 0.35452507 |
| 1700012D01 | 0.89128569 | 0.14562904 | 0.99717558 | 0.32997759 | 0.35460679 |
| Gene      | 9030624G23 | 0.21769771 | 3.50587459 | 0.99673474 | 0.33008195 | 0.35460876 |
|-----------|------------|------------|------------|------------|------------|------------|
| Eif3m     | -0.126026  | 6.20702064 | 0.99655976 | 0.33012339 | 0.35460876 |
| Gng13     | -0.3891914 | 1.38099842 | 0.99655551 | 0.3301244  | 0.35460876 |
| Mir5119   | 1.10775648 | -1.4890308 | 0.99649801 | 0.33013802 | 0.35460876 |
| Marf1     | 0.13436011 | 7.87549306 | 0.99640337 | 0.33016043 | 0.35460876 |
| Glul      | -0.1573998 | 10.5718556 | 0.99588829 | 0.33028247 | 0.3547002  |
| Rnf113a1  | 0.28200671 | 1.95448335 | 0.99552361 | 0.33036891 | 0.3547002  |
| Rgs14     | -0.32601111| 2.19227833 | 0.99542376 | 0.33039259 | 0.3547002  |
| Mob2      | -0.3295616 | 2.48552716 | 0.99519958 | 0.33044575 | 0.3547002  |
| Zc3h13    | 0.1412616  | 8.06484843 | 0.99504096 | 0.33048337 | 0.3547002  |
| Rgs7bp    | -0.1488591 | 8.51584196 | 0.99501343 | 0.3304899  | 0.3547002  |
| Maneal    | -0.1726469 | 4.31987879 | 0.99497485 | 0.33049905 | 0.3547002  |
| Zdhhc20   | 0.1659294  | 5.43041885 | 0.99430833 | 0.33065721 | 0.35479594 |
| Nrros     | 0.54783608 | 1.47144779 | 0.99425265 | 0.33067042 | 0.35479594 |
| 2010005H15| -1.3852657 | -1.5641879 | 0.99414104 | 0.33069692 | 0.35479594 |
| Gm13629   | 0.37548486 | 1.52851678 | 0.99377957 | 0.33078275 | 0.35484916 |
| Cebp      | -0.2752095 | 2.72160581 | 0.99355403 | 0.33083632 | 0.3548777  |
| Ndn2      | 0.23212073 | 3.46944245 | 0.99323848 | 0.33091129 | 0.35487587 |
| Ulk4      | 0.54785904 | 1.39967079 | 0.99321726 | 0.33091633 | 0.35487587 |
| Lcmt2     | 0.28491948 | 2.52533972 | 0.99283295 | 0.33100767 | 0.35492142 |
| Fblim1    | 0.4167965  | 3.58566952 | 0.99263422 | 0.33105492 | 0.35492142 |
| Eri2      | 0.20249154 | 4.18640994 | 0.99258129 | 0.33106751 | 0.35492142 |
| Acy3      | -0.3528172 | 1.57757437 | 0.99234597 | 0.33112347 | 0.35494256 |
| Ncoa1     | 0.10915863 | 8.10415337 | 0.99198769 | 0.33120869 | 0.35499507 |
| Rimb3     | 0.66168074 | 0.85861884 | 0.99180943 | 0.33125111 | 0.35500169 |
| Rnf19b    | 0.16441624 | 4.34190555 | 0.99160981 | 0.33129862 | 0.35501376 |
| Igfn1     | 0.30538027 | 4.3999423 | 0.9912921 | 0.33137425 | 0.35501672 |
| Nme3      | -0.2321416 | 3.44429198 | 0.99116575 | 0.33140433 | 0.35501672 |
| 1700010I14R| 0.56744449 | -0.0902284 | 0.99109395 | 0.33142143 | 0.35501672 |
| Gnr       | 0.26827873 | 5.16360744 | 0.99098932 | 0.33144635 | 0.35501672 |
| Dpp6      | 0.18969865 | 6.35339934 | 0.99046629 | 0.33157095 | 0.35511134 |
| Abcb1b    | 0.31808761 | 1.66778348 | 0.99017569 | 0.3316402 | 0.35514669 |
| Pim1      | -0.5446157 | 0.33204306 | 0.98980275 | 0.33172911 | 0.35520306 |
| D830030K20| 0.64500175 | 0.44318328 | 0.98916312 | 0.33188168 | 0.35530156 |
| Ric8b     | 0.19956279 | 5.65115964 | 0.98899374 | 0.3319221 | 0.35530156 |
| Foxp1     | -0.1122106 | 8.77787499 | 0.98896096 | 0.33192992 | 0.35530156 |
| A930001C03| 1.36742799 | -1.796291 | 0.98861559 | 0.33201235 | 0.35533131 |
| Ldb1      | 0.17941577 | 3.97055761 | 0.98854059 | 0.33203026 | 0.35533131 |
| Eif2a     | -0.1159226 | 6.74759483 | 0.98794763 | 0.33217187 | 0.35540682 |
| B3gal1    | 0.18584977 | 6.02154827 | 0.98792328 | 0.33217769 | 0.35540682 |
| Btg1      | -0.2056395 | 5.37506462 | 0.98769579 | 0.33223204 | 0.35540682 |
| Taf3      | -0.134557 | 6.44110544 | 0.98763758 | 0.33224595 | 0.35540682 |
| Atic      | 0.19548878 | 4.23843957 | 0.98722955 | 0.33234347 | 0.35541864 |
| Gene     | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Spag7    | 0.19801993 | 5.28595099 | 0.98721157 | 0.33234777 | 0.35541864 |
| 2010300C02I | 0.16694425 | 5.50339108 | 0.98713595 | 0.33236585 | 0.35541864 |
| Tada2b   | -0.1652668 | 4.39056583 | 0.9866851 | 0.33247367 | 0.35545312 |
| Ptprn    | 0.22186362 | 5.20958612 | 0.98656201 | 0.33250311 | 0.35545312 |
| Slc7a3   | 0.41141255 | 1.30527275 | 0.98654592 | 0.33250696 | 0.35545312 |
| Myh1     | 0.68031927 | 0.52930343 | 0.98561865 | 0.33272889 | 0.35565155 |
| Ccdc78   | 0.61408524 | -0.2894292 | 0.9852266 | 0.33282279 | 0.3557131 |
| Zfp964   | -0.410555 | 1.2599047 | 0.98484235 | 0.33291485 | 0.3557384 |
| Itgb4    | 0.41859565 | 3.19530324 | 0.98453436 | 0.33298867 | 0.3557384 |
| 4930455C13I | 0.89682628 | -0.7454366 | 0.98421716 | 0.33306472 | 0.3557384 |
| Sowaha   | 0.1621553 | 7.44815938 | 0.9841447 | 0.33308209 | 0.3557384 |
| Snx30    | 0.15936666 | 5.50898575 | 0.98366236 | 0.33319779 | 0.3557384 |
| Mbtps1   | 0.15289774 | 5.43469457 | 0.98359248 | 0.33321456 | 0.3557384 |
| Runx2    | 0.21841028 | 4.70215214 | 0.98353909 | 0.33322737 | 0.3557384 |
| Kitl     | -0.1865386 | 4.77964071 | 0.98351499 | 0.33323315 | 0.3557384 |
| 1700101I11R | -0.8298365 | 0.31317228 | 0.98338841 | 0.33326353 | 0.3557384 |
| Snhfg18  | -0.2637459 | 4.28839592 | 0.98331477 | 0.33328112 | 0.3557384 |
| Hnrnpf   | -0.1941961 | 6.78931311 | 0.98325209 | 0.33329625 | 0.3557384 |
| Fam19a1  | -0.133587 | 5.87262786 | 0.98324447 | 0.33329807 | 0.3557384 |
| Clec2f   | -0.8599878 | -0.7657779 | 0.98315904 | 0.33331858 | 0.3557384 |
| Hnrnh1   | 0.09559766 | 8.53090032 | 0.98282745 | 0.33339819 | 0.3557846 |
| Rpf1     | -0.171902 | 4.10670821 | 0.98193866 | 0.33361171 | 0.35596755 |
| Mshe     | 0.19799734 | 4.74445881 | 0.98181134 | 0.33364231 | 0.35596755 |
| 9530036O11I | 0.65866054 | -0.2627716 | 0.98058354 | 0.33393762 | 0.35619018 |
| Tmem178b | 0.1564763 | 7.54212313 | 0.98051783 | 0.33395344 | 0.35619018 |
| Rpp38    | 0.27481508 | 2.56177142 | 0.9803956 | 0.33398286 | 0.35619018 |
| Glyctk   | -0.4883489 | 1.38324795 | 0.9803392 | 0.33399643 | 0.35619018 |
| Zhx2     | -0.1896902 | 6.38843228 | 0.97959503 | 0.33417565 | 0.35634251 |
| Zfp518b  | -0.1240738 | 5.59134857 | 0.97928525 | 0.33425029 | 0.3563833 |
| Olfr1393 | -1.5652369 | -1.883936 | 0.97892567 | 0.33433696 | 0.35643691 |
| Aig1     | -0.2869711 | 3.24048573 | 0.97807774 | 0.33454146 | 0.35658912 |
| Atg14    | -0.2056459 | 4.2719661 | 0.97803183 | 0.33455254 | 0.35658912 |
| Gch1     | -0.4410727 | 0.83721912 | 0.97736397 | 0.33471374 | 0.35670898 |
| Lrcr26   | 1.14884322 | -1.5248642 | 0.97701333 | 0.33479842 | 0.35670898 |
| Slc25a12 | -0.1206278 | 7.49870517 | 0.97700299 | 0.33480092 | 0.35670898 |
| Sstr1    | 0.39946296 | 3.05387091 | 0.97696268 | 0.33481065 | 0.35670898 |
| Hist1h4c | -0.7166741 | -0.8188294 | 0.97654491 | 0.33491159 | 0.35676436 |
| Gpx7     | -0.4123107 | 2.44494039 | 0.97640955 | 0.33494443 | 0.35676436 |
| Slc5a7   | 0.18606914 | 4.15569526 | 0.97629536 | 0.33497199 | 0.35676436 |
| Ggnbp2   | 0.11145148 | 7.36108644 | 0.97564087 | 0.33513016 | 0.35689411 |
| Fmo2     | 0.36496396 | 2.18109682 | 0.97472753 | 0.33535118 | 0.35701798 |
| Map3k13  | 0.2350473 | 5.1679129 | 0.97463247 | 0.33537419 | 0.35701798 |
| Chml     | 0.12537653 | 6.24860913 | 0.97462605 | 0.33537575 | 0.35701798 |
1700023L04F  -0.9063214  -0.0254087  0.97455781  0.33539227  0.35701798
Kcnmb2  0.53979058  0.84059901  0.97438747  0.33543352  0.3570231
Antxr1  0.17687407  6.12795934  0.97396036  0.33553698  0.35709441
2310015A10  0.31966888  2.9295868  0.97338042  0.33567754  0.35714529
Snapc2  0.2236677  4.22325126  0.97325538  0.33570785  0.35714529
Fig4  0.16838186  4.3065797  0.97318949  0.33572383  0.35714529
Comp  1.0109328  -1.3445254  0.97309702  0.33574625  0.35714529
Cbx4  0.16829306  4.43718425  0.97301111  0.33576709  0.35714529
Zfp524  -0.6306427  -0.0109418  0.97249764  0.33589164  0.35716644
Fam193a  0.14321613  7.39228776  0.9724824  0.33589534  0.35716644
Bmf  -0.3084936  2.81806401  0.97244944  0.33590334  0.35716644
Asb4  0.68111436  0.34542722  0.97232793  0.33593283  0.35716644
Klf11  -0.1994353  4.21877842  0.97188731  0.33603979  0.35724139
Mcm18p  0.12021487  5.68264481  0.97168156  0.33608975  0.35725573
Fahd2a  -0.2779331  2.7954796  0.97106394  0.33623979  0.35728028
Wnt16  0.48839251  1.69469413  0.97088682  0.33628283  0.35728028
C1qtnf1  0.21318665  4.86034582  0.97083538  0.33629533  0.35728028
Heg1  0.1583872  6.24919506  0.97074094  0.33631829  0.35728028
Rnf2  -0.1464361  5.42081567  0.97069125  0.33633037  0.35728028
Ireb2  0.15434107  6.4449494  0.97068581  0.33633169  0.35728028
Mir1188  0.74457164  -0.5347815  0.97008514  0.33647775  0.35739668
Gpr45  -0.2639545  2.23163796  0.96965282  0.33658294  0.35746964
Arglu1  -0.1066908  6.85567336  0.96929756  0.33666941  0.35752271
Stradb  0.15434676  5.42089571  0.96897316  0.33674839  0.35753932
Ppp1r26  -0.1829638  4.18231138  0.96880114  0.33679029  0.35753932
Itgb2  0.41872781  1.44270914  0.96878361  0.33679455  0.35753932
Tex261  0.26376932  1.98762786  0.96763911  0.33707348  0.35778881
Khhl18  0.18282566  4.45705032  0.96751962  0.33710262  0.35778881
4833427F10l  0.76828249  -0.7880059  0.96661787  0.33732264  0.35798354
Alox12b  0.45735344  2.01014161  0.96635173  0.33738761  0.35801371
Ankrd16  0.37299287  2.54010471  0.96601157  0.33747068  0.35806307
Lgmn  -0.220634  4.12100921  0.96541579  0.33761625  0.35817018
Nelfb  -0.170718  5.02264515  0.96529911  0.33764477  0.35817018
1700018L02f  0.67182935  7.8479279  0.96498821  0.33772078  0.35821202
Sh3gl1  -0.2422966  3.29642853  0.96469251  0.33779309  0.35824992
Kat6b  0.11226158  7.17037169  0.96423062  0.33790608  0.35832032
Vpreb3  1.27715241  -1.2330033  0.96402068  0.33795746  0.35832032
Slc25a45  0.83240841  -0.4163997  0.96397272  0.3379692  0.35832032
Fendrr  1.01699367  -0.3723177  0.96353532  0.33807628  0.35835923
Rfx5  -0.1541832  4.85278337  0.96352393  0.33807907  0.35835923
Nsg2  -0.1260508  7.8674914  0.96276062  0.33826606  0.35851183
Scamp4  -0.231216  3.4873528  0.96263747  0.33829624  0.35851183
Fut4  -0.7317978  -0.2588624  0.96245283  0.3383415  0.35852101
| Gene      | Value       |
|-----------|-------------|
| Lrrc59    | -0.1189111  |
| Yipf3     | -0.1540813  |
| Ndufaf5   | -0.1637891  |
| Slc6a15   | 0.18658205  |
| Syncrip   | 0.11149045  |
| Myo1b     | 0.15454772  |
| Sorcs1    | 0.229509    |
| Unc13b    | 0.17033814  |
| Gm19619   | -1.1341906  |
| Hcfc2     | -0.2054251  |
| Dmpk      | -0.2401616  |
| Twistnb   | -0.1325802  |
| Prdx6     | -0.1402855  |
| Polr2j    | -0.3746348  |
| Syna      | -0.3366609  |
| Mmarchc   | -0.1662093  |
| Senp6     | -0.1029251  |
| S1c12a8   | 0.52318404  |
| Smpd1     | 0.21146477  |
| Tom111    | -0.1910069  |
| Poglut1   | -0.1354341  |
| Crf3      | -0.291549   |
| Gstk1     | -0.262306   |
| Dnajc27   | -0.1523257  |
| Srpk3     | 0.64187099  |
| Pfdn4     | -0.2456708  |
| Calr3     | -0.5783225  |
| Prkci     | 0.11375913  |
| Bcap31    | -0.2060384  |
| Cd53      | -0.2602891  |
| Zfp109    | -0.2392452  |
| Spata21   | -1.4651897  |
| Shisa9    | 0.18527802  |
| Tbc1d8b   | -0.1972161  |
| Zfp667    | -0.2305862  |
| Rasip1    | -0.2846822  |
| Fkbpl     | -0.528557   |
| Gcfc2     | -0.3416335  |
| A330074K22| 0.44184956  |
| Zfp513    | 0.32599841  |
| Zfp213    | 0.49567624  |
| Zfp945    | 0.1501262   |
| Gabpb1    | -0.1428206  |
| Gene      | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Crkl      | 0.11826859 | 6.05458741 | 0.95180951 | 0.34096488 | 0.35951248 |
| Trmt10b   | -0.201154 | 3.70171068 | 0.95166015 | 0.3410019 | 0.35951248 |
| Tet1      | 0.14717668 | 6.20291372 | 0.95154975 | 0.34102926 | 0.35951248 |
| Rbbp6     | 0.11143183 | 9.12289896 | 0.95136071 | 0.34107613 | 0.35951248 |
| Tnfsf15   | -1.5132404 | -1.6671084 | 0.95123431 | 0.34110747 | 0.35951248 |
| Slec9a3r1 | -0.2919781 | 4.2153837 | 0.95116298 | 0.34112516 | 0.35951248 |
| Klrd1     | 0.6351654 | -0.5107385 | 0.95106689 | 0.34114899 | 0.35951248 |
| Gm7120    | 0.34497994 | 2.94204316 | 0.95018526 | 0.34136775 | 0.3596787 |
| Scnn1a    | -0.2765863 | 2.58433615 | 0.94983412 | 0.34145493 | 0.3596787 |
| Fam129b   | -0.2344688 | 5.3393645 | 0.94972963 | 0.34148088 | 0.3596787 |
| Pnp       | -0.1778283 | 4.58401959 | 0.94970921 | 0.34148595 | 0.3596787 |
| Rab9      | -0.1742033 | 5.70015538 | 0.94969163 | 0.34149032 | 0.3596787 |
| Mt1       | -0.2291983 | 6.01750431 | 0.94950249 | 0.3415373 | 0.35968951 |
| Sephs1    | -0.153516 | 5.67359731 | 0.94929081 | 0.34158989 | 0.35970622 |
| Pcsk1     | 0.242796 | 3.26775986 | 0.94883065 | 0.34170425 | 0.35978797 |
| Gm4461    | 0.72388815 | 0.55151926 | 0.94842593 | 0.34180488 | 0.35979715 |
| Rfx7      | 0.13088282 | 7.87409775 | 0.94835254 | 0.34182313 | 0.35979715 |
| Gm13238   | 0.53245448 | 0.09036922 | 0.94821157 | 0.34185882 | 0.35979715 |
| Sec61g    | -0.2249023 | 4.7707202 | 0.94819212 | 0.34186303 | 0.35979715 |
| Smim3     | -0.2739258 | 3.12589515 | 0.94800528 | 0.34190952 | 0.35979715 |
| Bcdn3d    | -0.5142577 | 0.61609728 | 0.94790945 | 0.34193336 | 0.35979715 |
| Abcb7     | 0.17456841 | 5.77587624 | 0.94774323 | 0.34197472 | 0.35980202 |
| Cbln3     | 0.41554342 | 1.1983502 | 0.94729987 | 0.34208508 | 0.35987948 |
| Prickle4  | 1.33054438 | -1.8831369 | 0.94692169 | 0.34217926 | 0.35991656 |
| Tmem144   | 0.27431939 | 2.21110874 | 0.94686324 | 0.34219382 | 0.35991656 |
| Zfp92     | -0.3563259 | 2.40843891 | 0.94622044 | 0.34235399 | 0.36004636 |
| Rnf182    | -0.3264765 | 3.01037818 | 0.94572109 | 0.34247849 | 0.36013863 |
| Bag3      | -0.1701501 | 5.08106989 | 0.9452926 | 0.34258537 | 0.36021235 |
| Gdf9      | 0.8903757 | -0.9128164 | 0.94462408 | 0.34275222 | 0.36031593 |
| Ubash3b   | 0.14982181 | 5.78563294 | 0.94460315 | 0.34275744 | 0.36031593 |
| Vwa3a     | 0.42059481 | 2.05989752 | 0.94421324 | 0.34285481 | 0.36037961 |
| Fbxw7     | -0.1190125 | 8.24940269 | 0.94293915 | 0.34317325 | 0.36054006 |
| Napr1     | -0.5575743 | 0.45155741 | 0.94291058 | 0.3431804 | 0.36054006 |
| Lyrm4     | -0.1417257 | 5.02712425 | 0.94290447 | 0.34318192 | 0.36054006 |
| Igcd      | -1.1684247 | -1.7489565 | 0.94290347 | 0.34318217 | 0.36054006 |
| Gm15816   | 0.65813971 | 1.7588666 | 0.94289619 | 0.3431915 | 0.36054006 |
| Pqlc3     | 0.22351388 | 3.54648936 | 0.94252644 | 0.34327649 | 0.36056391 |
| Cyp4f16   | -0.3974133 | 1.73480182 | 0.94235396 | 0.34331965 | 0.36056391 |
| Heatr3    | 0.17240232 | 4.64907755 | 0.9421456 | 0.3433718 | 0.36056391 |
| Cars2     | 0.3162288 | 2.19304104 | 0.94207209 | 0.3433902 | 0.36056391 |
| Sec23a    | 0.13078703 | 6.49396383 | 0.94203994 | 0.34339825 | 0.36056391 |
| Zcchc7    | 0.1654277 | 5.64380246 | 0.94179325 | 0.34346001 | 0.36058049 |
| Gene   | Expr1  | Expr2  | Expr3  | Expr4  | Expr5  | Expr6  |
|--------|--------|--------|--------|--------|--------|--------|
| Bbox1  | -0.5518711 | 0.58517396 | 0.94168284 | 0.34348766 | 0.36058049 |
| C3ar1  | -0.3297562  | 2.03882037 | 0.94122965 | 0.34360117 | 0.360649 |
| Cck    | -0.1202124  | 7.75430441 | 0.9410122  | 0.34365566 | 0.360649 |
| Trim41 | -0.1419652  | 4.34501675 | 0.9409814  | 0.34366338 | 0.360649 |
| Zfp36l2| -0.1805581  | 6.13442197 | 0.94083052 | 0.34370119 | 0.36065005|
| Fbrs l1| 0.1812291   | 4.62818827 | 0.93932541 | 0.34407873 | 0.36100753|
| Tigit  | 1.15959619  | -1.5637593 | 0.93862139 | 0.34425553 | 0.36115435|
| Hexa   | 0.30100064  | 3.74109112 | 0.93841002 | 0.34430864 | 0.36115981|
| Smcr8  | 0.15215111  | 5.78459802 | 0.93830717 | 0.34433448 | 0.36115981|
| Hsbp1l1| 0.35773893  | 1.59126542 | 0.93805354 | 0.34439823 | 0.36118799|
| Bbx    | 0.12436106  | 7.92283414 | 0.93767766 | 0.34449273 | 0.36121734|
| Fcgr1  | 0.77189882  | -0.627529 | 0.9376489 | 0.34449996 | 0.36121734|
| Ttc7   | 0.3000246   | 3.14285201 | 0.93747036 | 0.34454846 | 0.36122575|
| Fcrlb  | 1.31981052  | -1.4451806 | 0.93722707 | 0.34460606 | 0.36125125|
| Nme5   | -0.237799  | 3.39963312 | 0.93704858 | 0.34465097 | 0.36125967|
| Klrbc  | 1.03202375  | -0.3976589 | 0.93652994 | 0.34478151 | 0.36135783|
| Mut    | 0.10678638  | 5.76690923 | 0.93579957 | 0.34496546 | 0.36151194|
| Zfp174 | 0.19528788  | 3.76830348 | 0.93548458 | 0.34504883 | 0.36155644|
| Gorab  | -0.1944311  | 3.49205678 | 0.9352023 | 0.34511599 | 0.36159232|
| Zfp758 | 0.2056311   | 3.79792439 | 0.93498294 | 0.3451713  | 0.36161159|
| Cacna1g| 0.21335781  | 4.47879731 | 0.93416979 | 0.34537643 | 0.3617878|
| Nfxl1  | 0.22785651  | 2.91886483 | 0.93388517 | 0.34544828 | 0.36182436|
| Fbln2  | 0.50185296  | 0.80247329 | 0.9336502 | 0.3455076  | 0.36184781|
| Zfp712 | 0.198729    | 3.87900977 | 0.93295806 | 0.34568244 | 0.36199221|
| Trip6  | -0.2845306 | 3.17019165 | 0.93249905 | 0.34579846 | 0.36207032|
| Cd200r1| -0.6876413  | -0.6579988 | 0.9323705  | 0.34583096 | 0.36207032|
| Spata5 | 0.20490661  | 4.23811925 | 0.93203684 | 0.34591534 | 0.36211996|
| Rsph3b | -0.1753405  | 4.40296319 | 0.93118592 | 0.34613066 | 0.36226315|
| Stx5a  | 0.19175395  | 4.58266496 | 0.93110839 | 0.34615029 | 0.36226315|
| Gm13157| -0.2261035  | 3.36192233 | 0.93105793 | 0.34616307 | 0.36226315|
| Reps2  | -0.1135574  | 9.58647786 | 0.93061469 | 0.34627532 | 0.36234191|
| Tmem56 | 0.15101115  | 6.25923531 | 0.93044053 | 0.34631944 | 0.36234937|
| Tmem205 | -0.3604064 | 1.69329535 | 0.92981879 | 0.34647701 | 0.36249984|
| Arfip2 | -0.1408561  | 5.19645534 | 0.92976967 | 0.34648947 | 0.36249984|
| A630020A06| 0.78112148 | 0.01746508 | 0.92897582 | 0.34669082 | 0.36262173|
| Kank2  | -0.1936751  | 7.56540758 | 0.9285795  | 0.3467914  | 0.36268821|
| Fam120c| 0.1946434   | 6.59807918 | 0.92834713 | 0.3468504  | 0.36271119|
| Cd1642 | 1.14582848  | -1.0215828 | 0.92769191 | 0.34701682 | 0.36272581|
| Pop1   | 0.32072526  | 2.24893073 | 0.92757693 | 0.34704604 | 0.36272581|
| Ranbp9 | -0.1051879  | 7.07801354 | 0.9275419  | 0.34705494 | 0.36272581|
| S1c27a3| -1.3332749  | -1.68270004 | 0.92742097 | 0.34708567 | 0.36272581|
| G630071F17| 0.69778187 | -0.2688964 | 0.92739124 | 0.34709323 | 0.36272581|
| Ankf1  | 0.34436104  | 1.79473831 | 0.92730213 | 0.34711588 | 0.36272581|
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Lin9   | -0.273427 | 3.01299053 | 0.92727176 | 0.34712359 | 0.36272581 |
| Riok3  | -0.1356485 | 6.33207179 | 0.92674749 | 0.3472569 | 0.3628264 |
| Pex16  | 0.45552803 | 0.74110707 | 0.92650581 | 0.34731837 | 0.36285193 |
| Peo1   | 0.30453929 | 2.5381301 | 0.92599324 | 0.3474488 | 0.3629466 |
| G3bp1  | -0.1451822 | 5.14055908 | 0.92585851 | 0.3474831 | 0.3629466 |
| Cdh4   | 0.21120417 | 3.48979286 | 0.9256962 | 0.34752442 | 0.36295106 |
| Shisa3 | -0.308293 | 3.96110094 | 0.92521029 | 0.34764817 | 0.36300971 |
| Ltbp4  | 0.16557805 | 4.59000141 | 0.92518467 | 0.3476547 | 0.36300971 |
| 9530077C05I | -0.3073421 | 2.2458995 | 0.92502654 | 0.34769498 | 0.36301308 |
| Pmm2   | -0.2237947 | 3.40285091 | 0.92481542 | 0.34774878 | 0.36302093 |
| Ublcp1 | -0.1276657 | 6.44773241 | 0.92470615 | 0.34777663 | 0.36302093 |
| Clic1  | -0.269135 | 4.48526169 | 0.92427348 | 0.34788693 | 0.36309737 |
| Nit2   | 0.26724195 | 2.27151986 | 0.92393723 | 0.34797269 | 0.36314819 |
| Ecd    | -0.1800418 | 4.1883553 | 0.92323932 | 0.34815077 | 0.36329533 |
| Syt17  | -0.2944921 | 3.80397589 | 0.92268029 | 0.34829351 | 0.36338297 |
| Nol8   | 0.12336227 | 6.46452917 | 0.92261985 | 0.34830895 | 0.36338297 |
| Rsrc2  | -0.111833 | 7.78253955 | 0.92144377 | 0.34860954 | 0.36365783 |
| Cd33   | -0.1970671 | 3.1598662 | 0.92116897 | 0.34867983 | 0.36369243 |
| Baiap2L2 | 0.87853581 | -1.0733073 | 0.92097315 | 0.34872993 | 0.36370595 |
| Gm8580 | -0.5779023 | -0.6333046 | 0.92050585 | 0.34884952 | 0.36379195 |
| Prtt2  | -0.118258 | 7.21379978 | 0.9195644 | 0.34909065 | 0.36400465 |
| Ifitm2  | -0.3234415 | 7.3431538 | 0.91845962 | 0.34937391 | 0.3642557 |
| Smim6  | -1.4855035 | -1.6185278 | 0.91824457 | 0.34942908 | 0.3642557 |
| Pde3b  | 0.35512719 | 2.68835774 | 0.91792233 | 0.34951178 | 0.3642557 |
| Polr1a | 0.28920636 | 4.59391222 | 0.9178023 | 0.34954259 | 0.3642557 |
| Hs3st2 | 0.20660389 | 4.34219434 | 0.91774786 | 0.34955657 | 0.3642557 |
| Mybbp1a | 0.1777066 | 4.39925614 | 0.91769495 | 0.34957015 | 0.3642557 |
| Prkar2a | -0.1241729 | 6.40143471 | 0.91761098 | 0.34959171 | 0.3642557 |
| Stag1  | -0.1135307 | 7.40633933 | 0.91712984 | 0.34971529 | 0.3643457 |
| Pim3   | 0.25505233 | 2.92316168 | 0.91677893 | 0.34980545 | 0.36440088 |
| Adams9 | 0.34560521 | 2.69377646 | 0.91633314 | 0.34992005 | 0.36444301 |
| Mak16  | -0.1565657 | 4.98461037 | 0.91623269 | 0.34994587 | 0.36444301 |
| Neo1   | 0.13492876 | 7.54444732 | 0.9160366 | 0.3499963 | 0.36444301 |
| Gbp2   | -0.2998192 | 4.51041072 | 0.91600593 | 0.35000419 | 0.36444301 |
| Tlcd1  | 0.38928589 | 2.1458999 | 0.91581163 | 0.35005417 | 0.36444301 |
| Fkbp10 | -0.4874721 | 2.21110393 | 0.91575348 | 0.35006913 | 0.36444301 |
| Gm14288 | -0.3660326 | 0.84512697 | 0.91504739 | 0.35025085 | 0.36455527 |
| Ctbs   | 0.22797795 | 3.00363502 | 0.91504248 | 0.35025203 | 0.36455527 |
| Rabepk | -0.2658713 | 2.99144991 | 0.91490072 | 0.35028862 | 0.36455527 |
| Sf1    | -0.1128018 | 6.7156002 | 0.91435258 | 0.3504298 | 0.36466346 |
| Nenf   | -0.1906602 | 4.26834623 | 0.91415142 | 0.35048164 | 0.36467866 |
| Tmem30b | 0.48378877 | 2.72185465 | 0.91368477 | 0.35055066 | 0.36471735 |
| Casp3  | -0.2028314 | 4.02964314 | 0.91357717 | 0.35062967 | 0.3647552 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14  | Value15 | Value16 | Value17 | Value18 | Value19 | Value20 | Value21 | Value22 | Value23 | Value24 | Value25 | Value26 | Value27 | Value28 | Value29 | Value30 | Value31 | Value32 | Value33 | Value34 | Value35 | Value36 | Value37 | Value38 | Value39 | Value40 | Value41 | Value42 | Value43 | Value44 | Value45 | Value46 | Value47 | Value48 | Value49 | Value50 | Value51 | Value52 | Value53 | Value54 | Value55 | Value56 | Value57 | Value58 | Value59 | Value60 | Value61 | Value62 | Value63 | Value64 | Value65 | Value66 | Value67 | Value68 | Value69 | Value70 | Value71 | Value72 | Value73 | Value74 | Value75 | Value76 | Value77 | Value78 | Value79 | Value80 | Value81 | Value82 | Value83 | Value84 | Value85 | Value86 | Value87 | Value88 | Value89 | Value90 | Value91 | Value92 | Value93 | Value94 | Value95 | Value96 | Value97 | Value98 | Value99 | Value100 | Value101 | Value102 | Value103 | Value104 | Value105 | Value106 | Value107 | Value108 | Value109 | Value110 | Value111 | Value112 |
| Gene    | Ctu2 | Epcam | AB30082N09 | Luc7L3 | Cys1 | Ormdl2 | 4932411E22I | Klrc1 | Map10 | C530008M17 | Nmnat1 | Pycard | Klhd4c | Snord19 | Klf2 | Lmx1b | Ndufa13 | Peli2 | Usp22 | Ntf5 | Gss | Serpina9 | Mcam | Zbtb34 | Nfil3 | Vamp8 | Rabgap1 | Stx6 | Rpain | Prpf19 | Supv31 | Snx12 | 1700003F12I | Setdb2 | Tyrobp | Olfm1 | Vmn2r46 | Sin3b | Cdh18 | Rec8 | Zbtb44 | Tceal5 | Gtf2h3 |
|---------|------|-------|------------|--------|------|--------|-------------|-------|-------|------------|--------|---------|--------|---------|------|--------|---------|-------|-------|-------|------|---------|------|--------|-------|-------|---------|------|--------|-------|-------|---------|------|--------|-------|-------|---------|------|--------|-------|-------|---------|------|--------|-------|-------|---------|------|--------|-------|
| Gene         | D    | A    | B    | C    | D    |
|--------------|------|------|------|------|------|
| Mir143hg     | 1.0171693 | -1.3937044 | 0.88631981 | 0.35776024 | 0.36876578 |
| Mtbp         | -0.4139337 | 1.38346682 | 0.88572617 | 0.35791784 | 0.36888942 |
| 6820431F20I  | 0.15560864 | 8.79642571 | 0.88525282 | 0.35804358 | 0.36895706 |
| Abhd4        | -0.1910416 | 5.30739511 | 0.88519552 | 0.35805881 | 0.36895706 |
| Mrps2        | -0.1343069 | 4.70560518 | 0.88487695 | 0.35814347 | 0.36900548 |
| Wdr52        | 0.33953264 | 2.19941663 | 0.88410509 | 0.35834873 | 0.36917813 |
| Fam131b      | -0.1835149 | 4.95506433 | 0.88354256 | 0.35849842 | 0.36929351 |
| Aamp         | -0.189296  | 4.84802461 | 0.88289278 | 0.35867145 | 0.36943289 |
| Csde1        | -0.0943361 | 9.14077136 | 0.88250401 | 0.35877503 | 0.36950073 |
| 6820531F20Rik | 0.15560864 | 8.79642571 | 0.88525282 | 0.35804358 | 0.36895706 |
| Abhd4        | -0.1910416 | 5.30739511 | 0.88519552 | 0.35805881 | 0.36895706 |
| Mrps2        | -0.1343069 | 4.70560518 | 0.88487695 | 0.35814347 | 0.36900548 |
| Wdr52        | 0.33953264 | 2.19941663 | 0.88410509 | 0.35834873 | 0.36917813 |
| Fam131b      | -0.1835149 | 4.95506433 | 0.88354256 | 0.35849842 | 0.36929351 |
| Aamp         | -0.189296  | 4.84802461 | 0.88289278 | 0.35867145 | 0.36943289 |
| Csde1        | -0.0943361 | 9.14077136 | 0.88250401 | 0.35877503 | 0.36950073 |
| 6820531F20Rik | 0.15560864 | 8.79642571 | 0.88525282 | 0.35804358 | 0.36895706 |
| Abhd4        | -0.1910416 | 5.30739511 | 0.88519552 | 0.35805881 | 0.36895706 |
| Mrps2        | -0.1343069 | 4.70560518 | 0.88487695 | 0.35814347 | 0.36900548 |
| Wdr52        | 0.33953264 | 2.19941663 | 0.88410509 | 0.35834873 | 0.36917813 |
| Fam131b      | -0.1835149 | 4.95506433 | 0.88354256 | 0.35849842 | 0.36929351 |
| Aamp         | -0.189296  | 4.84802461 | 0.88289278 | 0.35867145 | 0.36943289 |
| Csde1        | -0.0943361 | 9.14077136 | 0.88250401 | 0.35877503 | 0.36950073 |

**Note:** The table continues with similar entries for each gene.
| Gene      | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|-----------|---------|---------|---------|---------|---------|---------|
| Lrp11     | 0.1487094 | 5.96147788 | 0.87218981 | 0.36153887 | 0.37097354 |
| Atf7      | -0.2169721 | 4.26147139 | 0.87207986 | 0.3615685 | 0.37097354 |
| Deb1      | -0.1495571 | 4.91334652 | 0.87188317 | 0.36162151 | 0.37098907 |
| Clock     | -0.119646 | 7.60340753 | 0.87141641 | 0.36174735 | 0.37107931 |
| Syt4      | 0.1603213 | 7.23979806 | 0.87112393 | 0.36182624 | 0.37112137 |
| Zfp330    | -0.1577054 | 6.1249446 | 0.87033274 | 0.36203976 | 0.37122524 |
| Il1rl1    | 0.83716586 | -0.1980598 | 0.87030281 | 0.36204784 | 0.37122524 |
| Pstpip2   | -0.1774067 | 3.88083727 | 0.87022418 | 0.36206907 | 0.37122524 |
| Afg3l1    | 0.24388826 | 3.28180885 | 0.87018703 | 0.36209711 | 0.37122524 |
| Gstz1     | 0.14176696 | 4.65541876 | 0.86996708 | 0.3621385 | 0.37124728 |
| Hnrnph3   | -0.1383044 | 4.49209724 | 0.86982635 | 0.36217652 | 0.3712474 |
| Nudt2     | -0.2356005 | 3.19216054 | 0.86963151 | 0.3622916 | 0.371265 |
| AW822252  | 0.76333907 | 0.07551761 | 0.86936015 | 0.36230249 | 0.37129882 |
| Dvl3      | -0.1222117 | 6.09227167 | 0.86888513 | 0.36243091 | 0.37139157 |
| Usb1      | -0.3613197 | 1.54034789 | 0.86836745 | 0.36257093 | 0.37149619 |
| Rfxank    | -0.2650912 | 2.94693999 | 0.86721444 | 0.36288309 | 0.37177714 |
| Prdm16    | -0.2704653 | 3.06366429 | 0.86688353 | 0.36297275 | 0.37179221 |
| S1c39a5   | -0.57783224 | -0.5327547 | 0.86679913 | 0.36299562 | 0.37179221 |
| Vgf       | 0.29085024 | 3.63822286 | 0.86673993 | 0.36301167 | 0.37179221 |
| D3Erd751e | -0.1506749 | 5.72744736 | 0.86633684 | 0.36312095 | 0.37186525 |
| Mapkapk3  | -0.4288156 | 2.24862019 | 0.86594585 | 0.36322699 | 0.37192312 |
| Mllt3     | -0.1263737 | 7.72199041 | 0.86584854 | 0.36325339 | 0.37192312 |
| Chic1     | 0.12060536 | 6.36591201 | 0.86559185 | 0.36332304 | 0.37195555 |
| Gtpbp2    | 0.19167042 | 4.27138484 | 0.86498976 | 0.36348648 | 0.37197295 |
| Armc5     | -0.2284434 | 2.58306319 | 0.86481355 | 0.36353434 | 0.37197295 |
| Atg13     | -0.1100088 | 5.92728263 | 0.8647878 | 0.36354133 | 0.37197295 |
| Raver1    | -0.1861758 | 6.00400555 | 0.86474884 | 0.36355191 | 0.37197295 |
| Ush1g     | 1.42184961 | -1.4019684 | 0.86473841 | 0.36355475 | 0.37197295 |
| Nudt17    | -0.3975903 | 1.00296696 | 0.8646618 | 0.36357556 | 0.37197295 |
| Med11     | -0.3268663 | 2.92929786 | 0.86455028 | 0.36360585 | 0.37197295 |
| Chst9     | 0.81961958 | -0.8220098 | 0.8641312 | 0.36371973 | 0.37202515 |
| Lrcc48    | 0.2996249 | 2.39259325 | 0.86397734 | 0.36376156 | 0.37202515 |
| Dusp10    | -0.2443422 | 3.731895 | 0.86391249 | 0.36377919 | 0.37202515 |
| BC055234  | 0.46426961 | 6.5282369 | 0.86369776 | 0.36383758 | 0.37202515 |
| Irqgq     | 0.1270237 | 7.40639249 | 0.86342844 | 0.36391082 | 0.37202515 |
| Bax       | -0.2577522 | 2.61546348 | 0.86333731 | 0.36393561 | 0.37202515 |
| Fah       | -0.2052446 | 3.18799279 | 0.8632831 | 0.36395036 | 0.37202515 |
| Prkab2    | 0.16243034 | 4.92458605 | 0.86306976 | 0.36400841 | 0.37202515 |
| Spata2l   | -0.197015 | 4.60710982 | 0.86306601 | 0.36400943 | 0.37202515 |
| Ifitm7    | -0.870663 | -1.6271057 | 0.86296589 | 0.36403667 | 0.37202515 |
| Cril1     | -0.1755912 | 4.55231975 | 0.86260232 | 0.36413564 | 0.37207089 |
| Ak8       | -0.8021167 | -0.7773796 | 0.86252238 | 0.3641574 | 0.37207089 |
| Rcbtb1    | 0.15503037 | 6.01330375 | 0.86224087 | 0.36423406 | 0.37207645 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Dll3   | 1.03154988 | -1.1968643 | 0.8619929 | 0.36430161 | 0.37207645 |
| Abce1  | 0.12908026 | 6.26132422 | 0.86198169 | 0.36430466 | 0.37207645 |
| Chrna5 | -0.6375344 | -0.3679875 | 0.86190587 | 0.36432532 | 0.37207645 |
| Nacc2  | 0.11354739 | 6.50946676 | 0.86180511 | 0.36435278 | 0.37207645 |
| Bmpr2  | 0.13608678 | 9.84150137 | 0.8612148 | 0.36451368 | 0.37216915 |
| Tnip3  | -0.4520933 | 1.79841068 | 0.86198169 | 0.36435278 | 0.37207645 |
| Wdr90  | 0.61024609 | 1.35133883 | 0.86198169 | 0.36435278 | 0.37207645 |
| Rbpj   | -0.1110178 | 6.51270234 | 0.86036152 | 0.36474645 | 0.37232321 |
| Gdap2  | -0.1302793 | 4.7954107 | 0.86021005 | 0.36478779 | 0.37232661 |
| Rbpj   | -0.1110178 | 6.51270234 | 0.86036152 | 0.36474645 | 0.37232321 |
| Gdap2  | -0.1302793 | 4.7954107 | 0.86021005 | 0.36478779 | 0.37232661 |
| Abce1  | 0.12908026 | 6.26132422 | 0.86198169 | 0.36430466 | 0.37207645 |
| Chrna5 | -0.6375344 | -0.3679875 | 0.86190587 | 0.36432532 | 0.37207645 |
| Nacc2  | 0.11354739 | 6.50946676 | 0.86180511 | 0.36435278 | 0.37207645 |
| Bmpr2  | 0.13608678 | 9.84150137 | 0.8612148 | 0.36451368 | 0.37216915 |
| Tnip3  | -0.4520933 | 1.79841068 | 0.86198169 | 0.36435278 | 0.37207645 |
| Wdr90  | 0.61024609 | 1.35133883 | 0.86198169 | 0.36435278 | 0.37207645 |
| Rbpj   | -0.1110178 | 6.51270234 | 0.86036152 | 0.36474645 | 0.37232321 |
| Gdap2  | -0.1302793 | 4.7954107 | 0.86021005 | 0.36478779 | 0.37232661 |
| Rbpj   | -0.1110178 | 6.51270234 | 0.86036152 | 0.36474645 | 0.37232321 |
| Gdap2  | -0.1302793 | 4.7954107 | 0.86021005 | 0.36478779 | 0.37232661 |
| Abce1  | 0.12908026 | 6.26132422 | 0.86198169 | 0.36430466 | 0.37207645 |
| Chrna5 | -0.6375344 | -0.3679875 | 0.86190587 | 0.36432532 | 0.37207645 |
| Nacc2  | 0.11354739 | 6.50946676 | 0.86180511 | 0.36435278 | 0.37207645 |
| Bmpr2  | 0.13608678 | 9.84150137 | 0.8612148 | 0.36451368 | 0.37216915 |
| Tnip3  | -0.4520933 | 1.79841068 | 0.86198169 | 0.36435278 | 0.37207645 |
| Wdr90  | 0.61024609 | 1.35133883 | 0.86198169 | 0.36435278 | 0.37207645 |
| Rbpj   | -0.1110178 | 6.51270234 | 0.86036152 | 0.36474645 | 0.37232321 |
| Gdap2  | -0.1302793 | 4.7954107 | 0.86021005 | 0.36478779 | 0.37232661 |
| Rbpj   | -0.1110178 | 6.51270234 | 0.86036152 | 0.36474645 | 0.37232321 |
| Gdap2  | -0.1302793 | 4.7954107 | 0.86021005 | 0.36478779 | 0.37232661 |
| Gene   | Zfp763 | 1700001K19i | 4930404I05R | Pi4kb | Lgi1 | 1700001L05f | Dusp18 | Nlk | Mfsd7a | Od2 | Zc3h12d | Arsg | Zl25a19 | Tmem150b | Mapk4 | Heatr1 | Mapkap5 | Sp7 | Ap1m1 | St3gal3 | 1500015O10 | Ppfia1 | Cmpk2 | Edc3 | Apeh | D930048N14 | Bace1 | Gpr22 | Kcnj15 | Ppbp | Usp7 | Pigw | Gstp2 | Hsf2bp | Styx | Lmnb1 | Scn11a | Rcn2 | Farsb | Psd | Ptpra | Stk24 | Icam1 |
|--------|--------|-------------|-------------|--------|------|-------------|--------|-----|--------|-----|---------|------|---------|----------|--------|-------|--------|-----|------|---------|----------|--------|-------|------|------|---------|------|-------|--------|------|-------|------|------|-------|------|-------|--------|-----|
| Gene     | Cela1   | BC018473 | Frk     | Cd84    | Lhx8    | Edaradd | Bcl6    | Plekhum1 | Zfp120  | Lamp5   | Caskin1 | Fam184a | Vmn2r85 | Mmp2    | Suv39h2 | Olfr239 | Rhof    | Chga    | Tpst1   | Gstm2   | Bace2   | Abra    | Cct2    | Fam195b | Ostm1  | Gprin3  | Eif2ak2 | Mob1a   | Nup98   | Rhbd1   | Acadm   | Cib1    | 2310034G01 | Ndufa9  | Vcp     | Dmkn    | Ddx3y   | Hist1h1e | Acad9   | Arhgef19 | Ttc38   | Sntg2   | Pkp4    |
|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|          | 0.3488641  | -0.3488641  | -0.2254203 | 0.29151958 | -0.3056732 | 1.28910847 | 0.0930525  | 0.13347875 | 0.2134911  | 0.13859085 | 0.17444807 | 0.19174823 | 0.0963261 | -0.4472298 | 0.24465111 | -0.9963261 | -0.2358495 | -0.1958374 | -0.1547151 | -0.3038514 | 0.13475861 | 0.19919494 | -0.2674044 | 1.2405296 | 0.13475861  | -0.1558381  | 0.31279519 | -0.1022418 | 0.1126514 | -0.3312937 | 0.2095091 | -0.3773491 | 0.18093294 | 0.49777805 | 0.10881759 |        |
| Gene       | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|------------|---------|---------|---------|---------|---------|---------|
| Ppp1r37    | -0.1666968 | 4.26330119 | 0.82654818 | 0.37414727 | 0.37712469 |
| Zscan21    | -0.190929 | 4.60120424 | 0.82633003 | 0.37420906 | 0.37714816 |
| Kcnj3      | 0.17838049 | 5.04747371 | 0.82609937 | 0.37427442 | 0.37717522 |
| Map4       | -0.1016438 | 9.19688123 | 0.8257796 | 0.37436505 | 0.37719773 |
| Syde1      | -0.2478678 | 5.18608369 | 0.82547698 | 0.37445085 | 0.37719773 |
| Senp2      | -0.0963074 | 6.40988616 | 0.82539361 | 0.37447449 | 0.37719773 |
| Col18a1    | 0.3276554 | 1.82900347 | 0.8253501 | 0.37448683 | 0.37719773 |
| Tom1       | -0.206379 | 4.10098346 | 0.8253414 | 0.37448929 | 0.37719773 |
| Ecel1      | -0.3163681 | 1.9455997 | 0.82475916 | 0.37465447 | 0.37732531 |
| Cnppd1     | -0.2190602 | 4.12454066 | 0.82461374 | 0.37469575 | 0.37732808 |
| Cutc       | -0.2131048 | 3.81524854 | 0.82442043 | 0.37475062 | 0.37734454 |
| Bcat2      | -0.2690863 | 2.1273565 | 0.82419543 | 0.3748145 | 0.37736744 |
| A930011G23 | 0.71582848 | -0.3035177 | 0.82395882 | 0.37488171 | 0.37736744 |
| Zfp202     | 0.3337117 | 1.45069473 | 0.82375655 | 0.37493916 | 0.37736744 |
| St8sia2    | -0.275785 | 2.85033802 | 0.82371653 | 0.37495053 | 0.37736744 |
| 1700024G13 | -1.3005699 | -1.5267944 | 0.82366213 | 0.37496599 | 0.37736744 |
| Afmid      | -0.4206493 | 1.12223607 | 0.82335307 | 0.37505382 | 0.37741184 |
| Ldha       | -0.1332309 | 7.8797741 | 0.82313528 | 0.37511573 | 0.37741184 |
| Gys1       | 0.35389479 | 1.99857252 | 0.82294269 | 0.37517049 | 0.37741184 |
| Fbxo48     | -0.7757509 | -0.7738056 | 0.8227895 | 0.37521406 | 0.37741184 |
| 2310003H01 | -0.3850521 | 0.9227629 | 0.82274347 | 0.37522715 | 0.37741184 |
| Prex2      | 0.14694184 | 7.37348837 | 0.82269377 | 0.37524129 | 0.37741184 |
| Nlrp1b     | 1.7456391 | -1.6327494 | 0.8222088 | 0.37537927 | 0.37751186 |
| Hdx        | 0.30953309 | 2.92416688 | 0.82169711 | 0.37552493 | 0.37761086 |
| Col6a3     | 0.29391433 | 3.31318191 | 0.8215922 | 0.37555481 | 0.37761086 |
| Tacc2      | 0.12811574 | 5.52330764 | 0.82048191 | 0.37587121 | 0.37787904 |
| Obsl1      | 0.21196139 | 3.21369127 | 0.82038554 | 0.37589869 | 0.37789704 |
| Msrb3      | -0.1866407 | 5.39694695 | 0.82010887 | 0.3759776 | 0.37791595 |
| Ttf2       | 0.42230685 | 1.79361035 | 0.81981023 | 0.3760628 | 0.37793395 |
| Rabgap1l   | 0.13697698 | 8.19784169 | 0.8197831 | 0.37609096 | 0.37793395 |
| Slain2     | -0.1171345 | 6.73373401 | 0.81939266 | 0.37618199 | 0.37800866 |
| C330027C09I| 0.34561435 | 1.86514799 | 0.81924769 | 0.37622338 | 0.37801148 |
| Fbxo10     | 0.22664862 | 4.18832971 | 0.81876838 | 0.37636027 | 0.37811024 |
| Ddah2      | -0.3271961 | 3.18176182 | 0.81837725 | 0.37647204 | 0.37816069 |
| Hdgfrp2    | -0.1682855 | 5.05959439 | 0.81818349 | 0.37652742 | 0.37816069 |
| Chnra4     | 0.16092211 | 4.50706817 | 0.81805295 | 0.37656475 | 0.37816069 |
| Gm10584    | -0.8434181 | -1.1520838 | 0.81805236 | 0.37656492 | 0.37816069 |
| lft172     | 0.27034846 | 4.63791237 | 0.81764557 | 0.37668125 | 0.37821795 |
| Cass4      | -0.5672693 | 0.49765302 | 0.81758295 | 0.37669916 | 0.37821795 |
| Clec10a    | -0.9235634 | -1.1430793 | 0.81700253 | 0.37686526 | 0.37831164 |
| Flt4       | 0.66859757 | 1.00648881 | 0.81696934 | 0.37687475 | 0.37831164 |
| Rhpn2      | -0.2855102 | 4.0440724 | 0.81685202 | 0.37690834 | 0.37831164 |
| Ccdc162    | 0.57659172 | 0.22297356 | 0.81647905 | 0.37701514 | 0.37836025 |
| Gene          | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sqle         | 0.13518858 | 5.75304706 | 0.81641313 | 0.37703403 | 0.37836025 |
| Rab18        | -0.1300323 | 7.34877302 | 0.81619376 | 0.37709687 | 0.37838455 |
| Clpp         | -0.1731521 | 3.49623974 | 0.81579525 | 0.37721107 | 0.37843592 |
| Fam3c        | -0.1096541 | 6.43511488 | 0.81561360 | 0.37726315 | 0.37843592 |
| 1700102P08i  | -0.9369546 | -1.0640683 | 0.81561075 | 0.37726396 | 0.37843592 |
| Vsx1         | -0.2784565 | 3.86348811 | 0.81545959 | 0.37730733 | 0.37844066 |
| Tnfrsf11b    | -0.3528229 | 3.89176417 | 0.81521492 | 0.37737747 | 0.37847226 |
| Col5a3       | 1.09117914 | -1.0560599 | 0.81469795 | 0.37752579 | 0.37856889 |
| Lrrq1        | 0.31824013 | 3.09680899 | 0.81460972 | 0.37755112 | 0.37856889 |
| Rprd1b       | -0.1585093 | 5.10640068 | 0.81390251 | 0.37775418 | 0.37872926 |
| Xkr8         | 0.36105714 | 2.41378249 | 0.81352535 | 0.37786254 | 0.37872926 |
| Plekha7      | 0.20312661 | 2.98852326 | 0.81336776 | 0.37790783 | 0.37872926 |
| Nbl1         | -0.3259234 | 6.51471903 | 0.81336069 | 0.37790986 | 0.37872926 |
| Cped1        | -0.2056956 | 7.25689517 | 0.81331166 | 0.37792396 | 0.37872926 |
| Zbbt7b       | 0.29236193 | 2.97171509 | 0.81324526 | 0.37794304 | 0.37872926 |
| Bmp6         | -0.2530203 | 6.6331763 | 0.81283868 | 0.37805994 | 0.37880765 |
| 2610034B18   | 0.23820893 | 4.17684086 | 0.81246065 | 0.37816868 | 0.37887785 |
| Muc2         | -1.8241237 | -1.8954559 | 0.81230722 | 0.37821283 | 0.37888333 |
| Men1         | 0.20340213 | 4.30317558 | 0.81192898 | 0.37832169 | 0.37893042 |
| Urb1         | 0.2669801 | 2.76951926 | 0.81187511 | 0.3783372 | 0.37893042 |
| LOC10263411  | -1.1094198 | -1.4732897 | 0.81149695 | 0.3784461 | 0.37900073 |
| Msantd3      | -0.2694192 | 2.9884941 | 0.81095217 | 0.37860305 | 0.37908721 |
| Snta1        | 0.24475014 | 2.78513284 | 0.81077614 | 0.37865379 | 0.37908721 |
| Lrp2         | 1.13943293 | -1.6730941 | 0.81068322 | 0.37868057 | 0.37908721 |
| Rap1gap      | 0.20340813 | 4.12132355 | 0.81058607 | 0.37870858 | 0.37908721 |
| Gfod2        | -0.5805956 | 0.02465691 | 0.81052581 | 0.37872596 | 0.37908721 |
| Stat5b       | -0.1721236 | 4.00803531 | 0.81020619 | 0.37881813 | 0.37913734 |
| Cks1b        | -0.3477677 | 3.42281938 | 0.81001921 | 0.37887207 | 0.37913734 |
| Mkks         | -0.1676884 | 5.11911302 | 0.8099496 | 0.37889215 | 0.37913734 |
| Kdm5c        | 0.16421498 | 5.20889389 | 0.80950796 | 0.37901961 | 0.37922613 |
| Gm17296      | 0.4061353 | 2.16490273 | 0.80929827 | 0.37908014 | 0.37924796 |
| Osbp         | -0.1114391 | 5.35473339 | 0.80852842 | 0.37930252 | 0.37943168 |
| Dhrs4        | 0.20701582 | 3.26827748 | 0.8074312 | 0.37961979 | 0.37969449 |
| C330007P06l  | -0.1480991 | 7.68773185 | 0.8073518 | 0.37964276 | 0.37969449 |
| Acy1         | 0.44339123 | 0.78264564 | 0.80714028 | 0.37970398 | 0.3797145 |
| Tmem128      | 0.2142954 | 3.40362018 | 0.80692309 | 0.37976685 | 0.3797145 |
| Stam2        | -0.1281228 | 4.84893538 | 0.80672114 | 0.37982532 | 0.3797145 |
| Sdha2        | -0.1397335 | 5.20430452 | 0.80659254 | 0.37986256 | 0.3797145 |
| Chdh         | 0.39155595 | 1.47474422 | 0.80628449 | 0.37995179 | 0.3797145 |
| Rnf25        | -0.3132778 | 2.08902688 | 0.80625262 | 0.37996102 | 0.3797145 |
| Dhrs3        | -0.2394651 | 4.64623871 | 0.80608592 | 0.38000932 | 0.3797145 |
| Uxs1         | 0.16450877 | 3.5382047 | 0.80609295 | 0.38003154 | 0.3797145 |
| Prpf6        | -0.1293015 | 5.5425876 | 0.8058381 | 0.38007659 | 0.3797145 |
| Gene   | Value  |
|--------|--------|
| Gtsf1  | 0.99560063 |
| Mgp    | -0.3045353 |
| Rxra   | -0.2271328  |
| Pnml2  | 0.13930703  |
| Sm24   | -0.3489884  |
| Ttc9c  | -0.1456943  |
| F930015N05 | -0.2073228 |
| Myh6   | 0.53774919  |
| Adam21 | 0.49582516  |
| Htr4   | 0.42479566  |
| Slc25a35 | -0.1750056 |
| Spock2 | 0.14872488  |
| Rasgrp1| 0.16591468  |
| 5730403107R | -1.3236305 |
| Fam173b| 0.37495236  |
| Mettl22| 0.29655688  |
| 5430435G22 | -0.2418386 |
| Cyl6   | 0.1129654   |
| Dyrk1b | 0.20191772  |
| Plekhh1| 0.19568484  |
| Ncoa3  | 0.1284294   |
| AB124611| 0.79619293 |
| Prok2  | -0.9434059  |
| Birc5  | 0.46330729  |
| Sympk  | -0.203375   |
| S1x4   | 0.15489315  |
| Gm13293| -0.4024394  |
| 4930513N10 | -0.7428991 |
| Sec1411| 0.11854808  |
| Dbnl   | -0.1514295  |
| Cep57l1| 0.23206133  |
| Hpgd   | -0.247062   |
| Tdp1   | 0.26598254  |
| Cyb561d1| 0.1820987  |
| Rps6ka3| 0.10852249  |
| Gli3   | 0.12792197  |
| Gpr65  | 0.52504703  |
| Sbk1   | 0.17174221  |
| Rasa1  | 0.10377212  |
| Nmrk2  | 0.35321431  |
| Cd93   | 0.35806998  |
| Tmem165| -0.1651392  |
| Lrrc51 | -0.3794199  |
| Gene     | Value   | Value   | Value   | Value   | Value   |
|----------|---------|---------|---------|---------|---------|
| Aldh3a1  | 0.75993624 | -0.7939376 | 0.79467808 | 0.38333639 | 0.3813251 |
| Gpx4     | -0.2743509 | 4.24864188 | 0.79442635 | 0.38341024 | 0.38133614 |
| Lmbrd2   | 0.14015479 | 6.12720119 | 0.79437505 | 0.38342536 | 0.38133614 |
| Rad50    | 0.15823695 | 6.08377612 | 0.79352883 | 0.38367396 | 0.38154465 |
| Pabpc5   | 0.28326241 | 2.29010092 | 0.79332327 | 0.38373438 | 0.381566 |
| Gprl26   | 0.19987949 | 3.94251813 | 0.79223886 | 0.38405338 | 0.38172297 |
| Gm15881  | 0.62340978 | 0.39379139 | 0.79218746 | 0.38406851 | 0.38172297 |
| Gramd1b  | 0.13756698 | 5.84688195 | 0.79214967 | 0.38407963 | 0.38172297 |
| 2610035D17 | 0.22726934 | 3.31067357 | 0.79214004 | 0.38408247 | 0.38172297 |
| Slc33a1  | 0.1972777 | 3.78701826 | 0.79201188 | 0.3841202 | 0.38172297 |
| Tmod2    | -0.1039768 | 9.94559003 | 0.79190024 | 0.38415307 | 0.38172297 |
| Timm50   | -0.3439827 | 1.68706968 | 0.7918596 | 0.38416503 | 0.38172297 |
| Cxcl12   | -0.1404386 | 6.01762405 | 0.79170847 | 0.38420954 | 0.38172375 |
| Acss2    | 0.27631098 | 4.31701525 | 0.79151669 | 0.38426603 | 0.38172375 |
| Rs1ld1   | -0.1158377 | 6.66736682 | 0.79145663 | 0.38428373 | 0.38172375 |
| Odc1     | -0.0956246 | 6.42482973 | 0.79119739 | 0.38436011 | 0.38172375 |
| Ajap1    | 0.14104093 | 5.20149619 | 0.79114082 | 0.38437678 | 0.38172375 |
| H2-T10   | -0.3182895 | 1.18483638 | 0.79106327 | 0.38439964 | 0.38172375 |
| Sox9     | 0.16324435 | 5.66087096 | 0.79024416 | 0.38464118 | 0.38188696 |
| Jade2    | 0.1225308 | 5.26676133 | 0.79024148 | 0.38464197 | 0.38188696 |
| Atxn7I3b | -0.1100914 | 7.34105172 | 0.78960153 | 0.38483083 | 0.38203575 |
| Zfp869   | 0.15365916 | 5.11244838 | 0.78902971 | 0.38499971 | 0.38207951 |
| Atp2a1   | 1.11618748 | -0.7557197 | 0.78880306 | 0.38506667 | 0.38207951 |
| Nfatc3   | -0.1559892 | 6.91576641 | 0.78879364 | 0.38506946 | 0.38207951 |
| Rer1     | -0.1745987 | 5.71875699 | 0.78875783 | 0.38508004 | 0.38207951 |
| Qars     | 0.1686525 | 3.78645225 | 0.78872242 | 0.38509051 | 0.38207951 |
| MynO18b  | -0.631331 | -0.6149514 | 0.78866002 | 0.38510895 | 0.38207951 |
| Ly6h     | -0.3847496 | 0.87209353 | 0.78834988 | 0.38520062 | 0.38213176 |
| Tmem42   | 0.25492703 | 2.41919743 | 0.78809642 | 0.38527557 | 0.3821674 |
| Usp37    | 0.16652199 | 5.63517387 | 0.78773264 | 0.38533817 | 0.38223543 |
| Pgam5    | 0.1332616 | 6.09809971 | 0.78739793 | 0.38548222 | 0.38229496 |
| Slfn9    | -0.3405381 | 1.62630599 | 0.78689568 | 0.38563092 | 0.38240371 |
| Nat6     | -0.24268 | 3.18126994 | 0.78585217 | 0.38594013 | 0.38263882 |
| Zfp558   | 0.33410519 | 2.74543963 | 0.78583192 | 0.38594613 | 0.38263882 |
| Mars     | 0.12386444 | 4.89170001 | 0.7850142 | 0.3861887 | 0.38284056 |
| Lrcr90   | -0.1799444 | 5.10632569 | 0.78479073 | 0.38625503 | 0.38286756 |
| Sssca1   | -0.2541597 | 2.92878654 | 0.78441303 | 0.38636718 | 0.38293998 |
| Gps1     | -0.1333363 | 5.13884661 | 0.78418342 | 0.38643538 | 0.38296339 |
| Zfp410   | 0.16408236 | 4.00281026 | 0.78407025 | 0.386469 | 0.38296339 |
| Slc26a8  | 0.47944522 | 0.88939182 | 0.78290332 | 0.38681592 | 0.38325683 |
| Adcy4    | -0.5896961 | 0.47949154 | 0.78281104 | 0.38684338 | 0.38325683 |
| Mat2a    | 0.10366727 | 7.87146733 | 0.78252795 | 0.38692762 | 0.38330153 |
| Scn5a    | 0.4743952 | 1.37007776 | 0.78236717 | 0.38697548 | 0.38331017 |
| gene   | value   | value   | value   | value   | value   |
|--------|---------|---------|---------|---------|---------|
| Txlng  | 0.12535012 | 5.65176157 | 0.78209847 | 0.38705548 | 0.38335065 |
| Rap1gap2 | 0.1917598 | 6.7756268 | 0.78184655 | 0.3871305 | 0.38336386 |
| Sigirr   | -1.1316062 | -1.8461738 | 0.7817635 | 0.38715524 | 0.38336368 |
| Zfp426   | -0.121895 | 6.10522924 | 0.78158334 | 0.38720891 | 0.38336368 |
| Tmem38a  | -0.1778811 | 5.49186598 | 0.78152871 | 0.38722519 | 0.38336368 |
| Foxo1    | -0.1194236 | 7.15529798 | 0.78115715 | 0.38733392 | 0.38338825 |
| Zbtb41   | 0.11726639 | 6.45382066 | 0.78109379 | 0.38735481 | 0.38338825 |
| Zfp454   | -0.2466847 | 2.31027199 | 0.7810515 | 0.38736742 | 0.38338825 |
| Gm10416  | 0.67875009 | 0.47683774 | 0.78028499 | 0.38759604 | 0.38353876 |
| Fam179b  | 0.11407092 | 6.53940217 | 0.78025022 | 0.38760641 | 0.38353876 |
| Pdlim3   | -0.8447261 | -0.6166203 | 0.78014784 | 0.38763697 | 0.38353876 |
| Cdh24    | 0.91507858 | -1.4470112 | 0.77987727 | 0.38771772 | 0.38356023 |
| Psma6    | -0.1188214 | 6.42066675 | 0.77973154 | 0.38776123 | 0.38356023 |
| Rhbdd3   | 0.50632525 | -0.0468391 | 0.77968163 | 0.38777614 | 0.38356023 |
| Gm16880  | 1.1872058 | -0.2276483 | 0.77946348 | 0.38784128 | 0.38358594 |
| Dhcr24   | 0.17441491 | 5.09585216 | 0.7792972 | 0.38789095 | 0.38359633 |
| Sorbs3   | -0.2169195 | 7.07168681 | 0.77911253 | 0.38794612 | 0.38361216 |
| Rab19    | 0.42241741 | 1.98296092 | 0.77839844 | 0.38815957 | 0.38375222 |
| Tmem41b  | -0.1329737 | 4.8261981 | 0.77837657 | 0.38816611 | 0.38375222 |
| Faf1     | 0.15215425 | 4.73011911 | 0.77797242 | 0.388287 | 0.38381213 |
| Tnpo2    | -0.1100237 | 5.98827346 | 0.77779991 | 0.38833862 | 0.38381213 |
| Gm11149  | 0.77842377 | 0.11160232 | 0.77778104 | 0.38834426 | 0.38381213 |
| Khhl21   | -0.1883671 | 4.54310308 | 0.77749358 | 0.38844647 | 0.3838744 |
| Ina      | -0.1443457 | 6.3206916 | 0.77695756 | 0.38859081 | 0.38397831 |
| Nhlc3    | -0.3924069 | 0.51559575 | 0.77635313 | 0.38877191 | 0.38411852 |
| Il7r     | -0.6506202 | -0.0123462 | 0.77621712 | 0.38881269 | 0.38412005 |
| Gdpgp1   | -0.1668013 | 4.8161016 | 0.77579382 | 0.38893962 | 0.38420465 |
| Qpctl    | 0.24157282 | 2.65051681 | 0.77566998 | 0.38897676 | 0.38420465 |
| Zscan20  | 0.26346316 | 2.05490218 | 0.77541819 | 0.3890523 | 0.38424052 |
| lqjc     | -0.9893811 | -1.5324239 | 0.77471402 | 0.38926368 | 0.38441053 |
| Pla2g4c  | -0.567927 | 0.09718778 | 0.77443147 | 0.38934855 | 0.3844449 |
| Prrg2    | -0.6277393 | -0.1605994 | 0.7741736 | 0.38942602 | 0.3844449 |
| Cpne7    | 0.2723358 | 2.63343277 | 0.7741541 | 0.38943189 | 0.3844449 |
| Ascl2    | 0.99221637 | -0.7872353 | 0.77407558 | 0.38945548 | 0.3844449 |
| Pecam1   | 0.38362209 | 1.99038698 | 0.77362853 | 0.38958987 | 0.38453057 |
| Tnks     | 0.14479945 | 5.86862362 | 0.77344013 | 0.38964652 | 0.38453057 |
| Nkapl    | 0.51275117 | 0.25498264 | 0.77332865 | 0.38968005 | 0.38453057 |
| 493052615R | -0.4010027 | 1.65572054 | 0.77326466 | 0.3896993 | 0.38453057 |
| Upf3a    | -0.1810168 | 5.8631165 | 0.7726798 | 0.38987529 | 0.38466548 |
| Crebrf   | 0.11360011 | 7.2754805 | 0.77239824 | 0.38996005 | 0.38471036 |
| Nat9     | -0.2786369 | 1.99609858 | 0.7721239 | 0.39004267 | 0.38475312 |
| Uqcr2    | -0.0898651 | 6.7286354 | 0.77191074 | 0.39010688 | 0.38476641 |
| Ak4      | 0.16189853 | 5.3752424 | 0.7718184 | 0.3901347 | 0.38476641 |
| Gene      | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-----------|---------|---------|---------|---------|---------|---------|
| Gucy2f    | 0.82793269 | 0.24026653 | 0.77163354 | 0.39019041 | 0.3847826 |
| Pgm5      | -0.2259074 | 6.55807452 | 0.771397 | 0.39026171 | 0.38481417 |
| Arsj      | -0.4139976 | 0.86203898 | 0.77093486 | 0.39040106 | 0.38489358 |
| Rnpep     | 0.21371994 | 3.44437432 | 0.77086931 | 0.39042083 | 0.38489358 |
| Gm17762   | -0.7462529 | -0.4665116 | 0.77052804 | 0.39052379 | 0.38494756 |
| Trnt1     | 0.14835262 | 4.77161066 | 0.77042734 | 0.39055418 | 0.38494756 |
| Tmb1m     | -0.1851456 | 5.07240249 | 0.77028726 | 0.39059646 | 0.3849505 |
| Mapk1     | 0.10815096 | 9.09375929 | 0.76995433 | 0.39069697 | 0.38498483 |
| Apccdd1   | -0.2774356 | 3.98764952 | 0.76989971 | 0.39071346 | 0.38498483 |
| Hipk1     | -0.0998853 | 8.53399763 | 0.76974828 | 0.3907592 | 0.38498483 |
| Pdlim4    | -0.2605582 | 2.4719041 | 0.76965123 | 0.39078851 | 0.38498483 |
| Pcdhgc3   | 0.26589057 | 4.17040003 | 0.76922869 | 0.39091617 | 0.38505218 |
| Ctr9      | 0.13290999 | 5.2111628 | 0.76916478 | 0.39093549 | 0.38505218 |
| Cd74      | -0.3201364 | 6.73494248 | 0.76894924 | 0.39100064 | 0.38507763 |
| Sec24d    | -0.1729317 | 4.40749598 | 0.76855966 | 0.39111844 | 0.38511071 |
| Tjap1     | 0.39943733 | 1.35414695 | 0.76853691 | 0.39112532 | 0.38511071 |
| Slc30a4   | -0.1115999 | 6.40576099 | 0.7684481 | 0.39115218 | 0.38511071 |
| Cdk18     | 0.20628077 | 4.00573225 | 0.76790266 | 0.39131722 | 0.38521652 |
| Plau      | 0.54824769 | -0.1551436 | 0.76783302 | 0.3913383 | 0.38521652 |
| Hnmpnr    | -0.0956267 | 7.8987067 | 0.7675139 | 0.39143491 | 0.38527291 |
| Faim2     | -0.1215292 | 6.72865198 | 0.76723885 | 0.39151822 | 0.38531618 |
| Pabpc4l   | -0.390679 | 2.23419676 | 0.76662301 | 0.39170482 | 0.3854611 |
| Cables2   | -0.1514155 | 5.03028034 | 0.76596395 | 0.39190468 | 0.38559113 |
| B3galnt1  | -0.1201414 | 4.82804048 | 0.76592764 | 0.39191569 | 0.38559113 |
| Crlf1     | 0.64555819 | -0.4769437 | 0.76575093 | 0.39196931 | 0.38560515 |
| Gm2381    | 0.91691975 | -1.2024585 | 0.76560549 | 0.39201344 | 0.38560984 |
| Akap13    | 0.11197127 | 7.25756423 | 0.7648095 | 0.39225512 | 0.38580883 |
| Pop4      | -0.1964634 | 4.0052 | 0.76442474 | 0.39237202 | 0.38582154 |
| Gm3435    | 0.24013661 | 2.79609154 | 0.76427114 | 0.3924187 | 0.38582154 |
| Adam18    | 0.99297113 | -0.7034302 | 0.76425455 | 0.39242375 | 0.38582154 |
| Scube2    | 0.47765852 | 1.10588406 | 0.76424845 | 0.39242586 | 0.38582154 |
| Mrps18c   | -0.1908109 | 4.53628145 | 0.7640304 | 0.39249189 | 0.3858434 |
| Zfp865    | 0.15185327 | 4.44992551 | 0.7639162 | 0.39252661 | 0.3858434 |
| Rfp2      | 0.62347666 | -0.5855475 | 0.76353358 | 0.39264298 | 0.38587753 |
| A530064D06 | 0.96778368 | -1.7685004 | 0.76323238 | 0.39273463 | 0.38587753 |
| Actn4     | -0.1005934 | 6.28219437 | 0.76321253 | 0.39274067 | 0.38587753 |
| Emc8      | -0.113837 | 5.95088228 | 0.76310956 | 0.3927722 | 0.38587753 |
| Stard10   | -0.1958014 | 3.3328825 | 0.76306536 | 0.39278546 | 0.38587753 |
| Lrch3     | 0.15723328 | 4.78819514 | 0.76295617 | 0.39281869 | 0.38587753 |
| Slc35f2   | -0.6812959 | 0.09581704 | 0.76271339 | 0.39289261 | 0.38587753 |
| Mett7a1   | -0.1837843 | 6.05892047 | 0.76268825 | 0.39290027 | 0.38587753 |
| Tpd52     | -0.1185337 | 5.82796118 | 0.76263697 | 0.39291588 | 0.38587753 |
| Gucy2f    | 0.71415859 | 0.43556857 | 0.76222158 | 0.39304241 | 0.38596013 |
| Gene       | Pdcd2  | Polr3k | C530005A16 | Ociad2 | Tspan13 | Gpld1 | Abi3  | Col1a2 | 493041L22f | Lzts3   | Tmem98 | Dnph1 | Ugcg  | Fam150b | Zfp788 | Krit1  | Trp53i11 | Armc3  | Eml2   | Ppp1r2 | Gm14405 | Al987944 | C130030K03I | Abhd8  | 2610015P09I | Atp6vlc2 | Prickle3 | Med6   | Rpap3  | Rnf130 | Tdo2   | Fmn1   | Dydc2  | Pms2   | Hmga2-ps1 | Cask     | Anxa8   | Pcdhgb7 | Khll12 | Utp3   | Kat2b   | Adap2   | Dnahr11 |
|------------|--------|--------|------------|--------|---------|-------|-------|-------|-----------|---------|--------|-------|-------|---------|--------|--------|----------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  |
|-------|---------|---------|---------|---------|---------|---------|---------|
| Dppa2 | 0.12361833 | 6.19549155 | 0.75139448 | 0.39636204 | 0.3875136 |
| Eif4ebp2 | -0.148915 | 5.77871641 | 0.75008683 | 0.39676582 | 0.3878464 |
| Safb | -0.1154402 | 6.30017107 | 0.74999358 | 0.39679464 | 0.3878464 |
| C130036L24f | 0.66741989 | -0.1689288 | 0.74990756 | 0.39682122 | 0.3878464 |
| Fgf10 | 0.39580302 | 2.46889666 | 0.74949182 | 0.39694975 | 0.38793332 |
| Armc7 | -0.2805598 | 2.3542711 | 0.74927444 | 0.397017 | 0.38795195 |
| Cyb5d2 | -0.1831612 | 3.3332216 | 0.74917409 | 0.39704803 | 0.38795195 |
| Knstrn | -0.5042883 | 0.64181907 | 0.74865376 | 0.39720904 | 0.38802568 |
| 4932435O22 | -1.7085538 | -1.8514079 | 0.74855323 | 0.39724016 | 0.38802568 |
| Hk1os | -0.4874293 | 0.80907124 | 0.74852517 | 0.39724884 | 0.38802568 |
| Heph | -0.4630527 | 2.0407408 | 0.74841828 | 0.39728194 | 0.38802568 |
| Ptov1 | -0.2278545 | 5.14555831 | 0.74817461 | 0.3973574 | 0.38806068 |
| Rpa2 | 0.23487205 | 3.4815477 | 0.7478699 | 0.39745179 | 0.38811417 |
| Hhex | -0.3471401 | 1.7525512 | 0.74772606 | 0.39749635 | 0.388119 |
| Rps6kc1 | -0.3385871 | 4.98005424 | 0.74753145 | 0.39755667 | 0.38813241 |
| Zbtb10 | 0.11776647 | 5.46634052 | 0.74742605 | 0.39758934 | 0.38813241 |
| Psen2 | -0.3205076 | 1.61387442 | 0.74694469 | 0.3977386 | 0.38817792 |
| Bcl2l13 | 0.14827262 | 5.02911328 | 0.7476316 | 0.3978047 | 0.38817792 |
| Adc | 0.32756559 | 1.78714451 | 0.74667036 | 0.3978237 | 0.38817792 |
| Cc2d1b | 0.19047367 | 3.62334227 | 0.74665843 | 0.3978274 | 0.38817792 |
| Cbfa2t3 | -0.1511653 | 4.7943287 | 0.74663682 | 0.3978341 | 0.38817792 |
| Afg3l2 | 0.12994253 | 5.7591495 | 0.74606556 | 0.39801141 | 0.38831224 |
| Lipa | 0.14306734 | 4.63551706 | 0.74572247 | 0.39811796 | 0.38837751 |
| Mepce | -0.15482 | 4.31707559 | 0.74547028 | 0.3981963 | 0.38841525 |
| 2610035F20I | -0.2041431 | 3.01354408 | 0.7446234 | 0.39845956 | 0.38860247 |
| Txnr2d | 0.39677273 | 1.2978111 | 0.74459763 | 0.39846757 | 0.38860247 |
| Izumo4 | 0.31618765 | 1.70919881 | 0.7436545 | 0.39876106 | 0.38879112 |
| Zfp91 | -0.0944623 | 7.46042978 | 0.74361786 | 0.39877248 | 0.38879112 |
| Emilin1 | -0.2814367 | 2.02283567 | 0.74355144 | 0.39879316 | 0.38879112 |
| Apex2 | 0.55069732 | 1.18741274 | 0.74346595 | 0.39881978 | 0.38879112 |
| Gm4477 | -0.6205122 | -0.8045183 | 0.74322046 | 0.39889625 | 0.38882697 |
| Soga3 | 0.15517428 | 6.51710607 | 0.74294602 | 0.39898176 | 0.38884704 |
| Rimkla | 0.22686601 | 3.67743877 | 0.74289957 | 0.39899623 | 0.38884704 |
| Slco1c1 | 0.20339445 | 4.33303442 | 0.74268441 | 0.39906329 | 0.3888737 |
| Gabra3 | 0.11920182 | 5.47618171 | 0.74236649 | 0.39916241 | 0.3889316 |
| Fam220a | -0.1317216 | 4.2702704 | 0.7422128 | 0.39921035 | 0.38893962 |
| Rnf5 | -0.1649496 | 5.68227105 | 0.74187129 | 0.39931688 | 0.38894377 |
| Sec61a1 | -0.1667879 | 4.9649272 | 0.74179828 | 0.39933966 | 0.38894377 |
| Mfn2 | 0.11101204 | 6.63419644 | 0.7417748 | 0.39934699 | 0.38894377 |
| Pcnt | 0.155141 | 5.11387486 | 0.74169006 | 0.39937344 | 0.38894377 |
| Syk | -0.3878319 | 1.46868149 | 0.7413566 | 0.39947752 | 0.38899044 |
| Zbtb9 | 0.26911769 | 2.9040012 | 0.74128212 | 0.39950078 | 0.38899044 |
| Dppa2 | 1.53398317 | -1.8299176 | 0.74096231 | 0.39960065 | 0.38904901 |
| Gene   | Rmnd1   | Zfp777   | Slc30a9  | Kifc5b  | Fhad1   | Rbpms  | Ikbke   | 4930507D05 | Arhgef17 | Khl2    | Agtrap  | Phf11a   | Zc3h6   | Abca9   | Gm11549 | Myocd   | Bicd1   | Bmp2k   | Itsn2   | 11-Sep  | Dlgap3   | Anapc2   | Slc16a3 | Unkl   | Gm10814 | Fam104a | Accox   | Atxn3   | 1700028J19f | 1700027J19f | Mrps27 | Prr24   | Ncmap   | Yipf4   | Fbxl3   | Fxyd6   | 1700007L15f | Tnfaip2 | Tmem240 | Cep44   | Mecr   | Ndufs8  | Eif3c   |
|--------|---------|----------|----------|---------|---------|--------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|        | 0.29153545 | 1.31481141 | 0.74057562 | 0.39972147 | 0.38912796 | -0.2617316 | 2.08717096 | 0.73954692 | 0.40004313 | 0.38936939 | -0.1127196 | 6.51316511 | 0.73952824 | 0.40004897 | 0.38936939 | 0.9630181 | -1.1644293 | 0.73934129 | 0.40010748 | 0.38938764 | 0.29273278 | 2.56366346 | 0.73914036 | 0.40017037 | 0.38941015 | -0.2503341 | 5.27075179 | 0.73895278 | 0.40022909 | 0.38942861 | 0.49468773 | 0.5804378 | 0.73856276 | 0.40035123 | 0.38950877 | -0.8605453 | -1.1882022 | 0.73842683 | 0.40039382 | 0.38951151 | 0.13649641 | 6.61858914 | 0.73816703 | 0.40047522 | 0.38955201 | 0.11225831 | 6.90275888 | 0.73748301 | 0.40068967 | 0.38972191 | -0.2746263 | 4.03293785 | 0.73731169 | 0.40074341 | 0.38973548 | -0.6037941 | -0.4520695 | 0.73664408 | 0.40095293 | 0.38990053 | 0.1629464 | 4.89306762 | 0.73616973 | 0.4011019 | 0.39000668 | -0.1604511 | 6.25692304 | 0.73589143 | 0.40118933 | 0.39005298 | 0.12029737 | 6.88483758 | 0.73562203 | 0.401274 | 0.39009658 | -1.2934082 | -1.5673105 | 0.73545102 | 0.40132776 | 0.39010138 | 0.13117946 | 6.59984116 | 0.73535295 | 0.4013586 | 0.39010138 | 0.13492742 | 5.06824754 | 0.73519375 | 0.40140866 | 0.39011133 | 0.10822098 | 7.26278222 | 0.73386713 | 0.40182621 | 0.39041391 | -0.0993592 | 7.5978951 | 0.73384314 | 0.40183376 | 0.39041391 | 0.18730762 | 4.07743113 | 0.73382472 | 0.40183957 | 0.39041391 | 0.11541721 | 4.74039092 | 0.73352744 | 0.40193323 | 0.39046617 | 0.78230653 | -1.1228918 | 0.73312677 | 0.40205952 | 0.39050513 | 0.12185622 | 5.53596705 | 0.73285275 | 0.40214592 | 0.39059532 | 0.15748422 | 5.40387752 | 0.73209079 | 0.40238633 | 0.39079008 | -0.6746584 | 0.76249945 | 0.73148649 | 0.40257715 | 0.39093664 | -0.1775196 | 5.23095913 | 0.73118509 | 0.40267238 | 0.39099035 | 0.10467752 | 6.99373077 | 0.73096999 | 0.40274036 | 0.3910176 | -0.124358 | 5.32775843 | 0.73047303 | 0.40289748 | 0.39113138 | -0.7549773 | -1.2807606 | 0.73030043 | 0.40295207 | 0.39114561 | 0.19527626 | 3.35582252 | 0.72996074 | 0.40305955 | 0.39121117 | 0.14782326 | 4.53434013 | 0.72980231 | 0.40310969 | 0.39121938 | 1.17721542 | -0.974297 | 0.72968167 | 0.40314788 | 0.39121938 | 0.16282084 | 4.77633016 | 0.72943801 | 0.40322503 | 0.39125548 | -0.0972406 | 7.46914678 | 0.7291239 | 0.40332451 | 0.39131324 | 0.16142655 | 5.08938502 | 0.72870458 | 0.40345737 | 0.39137003 | 0.52825585 | -0.0113701 | 0.72866601 | 0.4034696 | 0.39137003 | 0.45195149 | 0.47359873 | 0.72856095 | 0.4035029 | 0.39137003 | -0.3322221 | 0.89522004 | 0.72836954 | 0.40356358 | 0.39139013 | 0.21179982 | 2.75179763 | 0.7277227 | 0.40376875 | 0.39144559 | -0.3994259 | 1.30272389 | 0.72772023 | 0.40376953 | 0.39144559 | -0.230162 | 4.82298406 | 0.72769824 | 0.40377651 | 0.39144559 | 0.09211427 | 8.03434266 | 0.72750787 | 0.40383692 | 0.39144559 |
| Gene   | Log2FoldChange | p-Value   |
|--------|----------------|-----------|
| Lsg1   | 0.14839314     | 0.40384484|
| Ubald2 | -0.2547805     | 0.40388753|
| H2afy  | -0.1324481     | 0.4039005 |
| Ntn1   | 0.14381378     | 0.40399819|
| Sec63  | 0.09271196     | 0.40421981|
| Ppcdc  | -0.2457422     | 0.40436187|
| Dcp1b  | 0.16742657     | 0.40436453|
| A1606473| -0.6996669     | 0.40441831|
| Anxa7  | -0.1107951     | 0.40442434|
| Tor1aip2| -0.1429631     | 0.40451234|
| Tifab  | -0.4475383     | 0.40462415|
| Kcna2  | 0.17092538     | 0.40479459|
| Adora2b| 0.47117021     | 0.40481595|
| Spata33| 0.81743703     | 0.40486289|
| Gm1979 | 0.49597105     | 0.40488029|
| Rnf135 | -0.2239845     | 0.40488302|
| Lrp5   | -0.3326351     | 0.40497005|
| Pdcd2l | -0.194279      | 0.40501906|
| Rnf149 | 0.14440396     | 0.40508051|
| Itpkc  | 0.27360687     | 0.40520726|
| Dpm3   | -0.3199236     | 0.40538128|
| Myadm  | -0.1000018     | 0.40559885|
| 8430408G22| 1.3364461   | 0.40560897|
| Rnf123 | 0.1454047      | 0.40570406|
| Zfp263 | 0.18819953     | 0.40575493|
| 2610034M196| 0.59382867  | 0.40586407|
| Tcf4   | -0.0868214     | 0.40589111|
| Gm1141 | -1.2104688     | 0.40594257|
| Polr1e | 0.25043012     | 0.40595344|
| Rragb  | 0.12406611     | 0.40597967|
| Polr1d | -0.1507005     | 0.40608231|
| Lhfpl2 | -0.1605801     | 0.40624072|
| Cradd  | -0.2044626     | 0.40624713|
| Snx25  | 0.1219181      | 0.40626889|
| 4833418N02| -0.3264597   | 0.40627347|
| Lem1   | 1.12065309     | 0.4063421 |
| Tcf19  | -0.3048258     | 0.40636403|
| Fam187b| 0.78239749     | 0.40645077|
| Ankr52 | 0.13586383     | 0.40663645|
| Tnfrsf9| -0.9206348     | 0.40666968|
| Slc22a8| -0.2085453     | 0.40672132|
| Pstpip1| 1.02784744     | 0.40683202|
| Tbc1d10c| 0.8749263     | 0.40688352|
| Gene   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Smim19 | -0.1752707 | 4.67526929 | 0.71719488 | 0.40710342 | 0.39298174 |
| E2f7   | -0.9883971 | -1.079622 | 0.71699794 | 0.40719371 | 0.39299753 |
| 3110062M04 | 0.39634336 | 0.70944072 | 0.71682928 | 0.40724792 | 0.39299753 |
| Mphosph8 | 0.12814609 | 8.41146248 | 0.71665991 | 0.40730238 | 0.39299753 |
| Pear1  | 0.28741046 | 3.42299803 | 0.7166447 | 0.40730727 | 0.39299753 |
| Rad9b  | 0.48710775 | 0.48771744 | 0.71610745 | 0.40748008 | 0.39307776 |
| Ltk    | 0.3861084 | 1.34450816 | 0.71602621 | 0.40750622 | 0.39307776 |
| Btf3   | -0.1703544 | 6.23544685 | 0.71601196 | 0.4075108 | 0.39307776 |
| Psmc4  | -0.1505416 | 4.92455703 | 0.71587382 | 0.40755526 | 0.39308193 |
| Ubp1   | -0.127052 | 5.09841286 | 0.71565784 | 0.40762478 | 0.39308622 |
| Larp1  | 0.10248327 | 7.30000833 | 0.71561069 | 0.40763996 | 0.39308622 |
| Adra2c | -0.271177 | 2.43547941 | 0.71523473 | 0.40776103 | 0.39310271 |
| Nfia   | -0.1347154 | 9.13850662 | 0.71518566 | 0.40777683 | 0.39310271 |
| Tomm6  | -0.1838027 | 5.29163217 | 0.71509338 | 0.40780656 | 0.39310271 |
| Polr3f | -0.1337988 | 4.75486577 | 0.71505914 | 0.40781759 | 0.39310271 |
| Lrnf4  | 0.30531717 | 2.51329453 | 0.71470271 | 0.40793244 | 0.39317473 |
| Sacs   | 0.37139669 | 3.7593415 | 0.71429565 | 0.40806367 | 0.39326251 |
| Spice1 | -0.1907385 | 3.42151264 | 0.71405002 | 0.40814289 | 0.39330016 |
| 9030025P20I | 0.20565018 | 3.21124724 | 0.71301114 | 0.4084782 | 0.39357811 |
| 1700023F06I | 1.05882536 | -1.5503012 | 0.71290744 | 0.40851169 | 0.39357811 |
| Frmd6  | 0.13694834 | 5.61707454 | 0.71277815 | 0.40855345 | 0.39357964 |
| Ptms   | -0.236927 | 6.61621914 | 0.71226547 | 0.40871913 | 0.39370052 |
| Cd28   | -0.5321281 | 0.22626198 | 0.71095362 | 0.40914352 | 0.39405147 |
| Trim32 | 0.12429904 | 7.59726018 | 0.71088196 | 0.40916672 | 0.39405147 |
| Hadha  | -0.1250447 | 4.94884333 | 0.71062056 | 0.40925138 | 0.39409695 |
| 0610010F05I | -0.1500359 | 5.99731277 | 0.71048547 | 0.40929514 | 0.39410034 |
| Mrpl22 | -0.2102346 | 3.03106697 | 0.71017293 | 0.40939964 | 0.39415911 |
| Wdr46  | 0.22173176 | 4.10368222 | 0.70995798 | 0.40946607 | 0.39415987 |
| Gm10789 | 1.06197837 | -1.9141048 | 0.70992216 | 0.40947768 | 0.39415987 |
| Samm50 | 0.16444212 | 3.50730105 | 0.70963438 | 0.40957099 | 0.39420267 |
| Gm17019 | 0.79530349 | -1.2206057 | 0.70953682 | 0.40960263 | 0.39420267 |
| Map3k8 | -0.2786644 | 1.90323526 | 0.70935185 | 0.40966262 | 0.3942168 |
| Grb10  | -0.0966479 | 6.92938384 | 0.70896538 | 0.40978802 | 0.39430361 |
| Cnnap5c | 0.43519931 | 1.45542887 | 0.70861015 | 0.40990333 | 0.39437583 |
| Rc3h1  | 0.09467728 | 7.36999408 | 0.70825135 | 0.41001986 | 0.39444919 |
| Rbms2  | 0.16278974 | 5.91312169 | 0.70783658 | 0.41015462 | 0.39453865 |
| Col8a1 | -0.2055725 | 5.5011309 | 0.70771726 | 0.4101934 | 0.39453865 |
| Nyap2  | -0.1473939 | 5.85461771 | 0.70728659 | 0.41033342 | 0.39457214 |
| Gm715  | -0.3478457 | 1.23912547 | 0.70727067 | 0.4103386 | 0.39457214 |
| Mex3d  | 0.21513638 | 3.9163 | 0.70717552 | 0.41036955 | 0.39457214 |
| Asb1   | -0.1502356 | 4.51615356 | 0.70711464 | 0.41038935 | 0.39457214 |
| Camk4  | 0.13744374 | 9.29810961 | 0.70673614 | 0.41051249 | 0.39462899 |
| Slc29a2 | 0.50566931 | 0.35312579 | 0.70668524 | 0.41052906 | 0.39462899 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|--------|--------|--------|--------|--------|--------|--------|
| Cdy12  | -0.1533843 | 5.28059106 | 0.70645882 | 0.41060275 | 0.39465118 |
| Cct5   | -0.1011918 | 6.33837543 | 0.7063668 | 0.41063271 | 0.39465118 |
| Syt6   | 0.21823855 | 4.7974429 | 0.70576288 | 0.4108294 | 0.39480147 |
| Tmem106a | 0.45696611 | 1.6543206 | 0.70522594 | 0.41100407 | 0.39493059 |
| Impdh1 | 0.25077217 | 2.57882557 | 0.70507086 | 0.41105496 | 0.39494075 |
| B330016D10 | 0.58006152 | 0.44110558 | 0.70466405 | 0.41118765 | 0.3949913 |
| Zfp661 | 0.20137701 | 3.17375051 | 0.70466227 | 0.41118823 | 0.3949913 |
| Nos1ap | 0.21989003 | 3.69490422 | 0.70434333 | 0.4112923 | 0.39501982 |
| Cnot6 | 0.13299284 | 6.42197688 | 0.70422559 | 0.41133074 | 0.39501982 |
| Mfap1b | -0.0972307 | 6.89563488 | 0.70420059 | 0.4113389 | 0.39501982 |
| Ing2 | -0.1301979 | 5.0945217 | 0.70386483 | 0.41144852 | 0.39508635 |
| Nlr1x1 | 0.38622748 | 1.86726911 | 0.70345633 | 0.41158195 | 0.39513526 |
| Hnrnpdl | -0.0894437 | 7.47776317 | 0.70345206 | 0.41158335 | 0.39513526 |
| Efcab5 | 0.31185842 | 6.66556156 | 0.70333847 | 0.41162047 | 0.39513526 |
| Muc1 | 0.18543185 | 4.64332139 | 0.70300616 | 0.41172908 | 0.39520079 |
| Ccdd124 | -0.2164949 | 4.3329808 | 0.70262544 | 0.41185357 | 0.39523228 |
| Atad3aos | -0.5867172 | 0.04760216 | 0.70223869 | 0.41198008 | 0.39523228 |
| Rab4a | 0.12639186 | 4.98587144 | 0.70210428 | 0.41202407 | 0.39523228 |
| Fam134a | -0.1029301 | 5.4026259 | 0.7020535 | 0.41204069 | 0.39523228 |
| Acaa2 | -0.1717789 | 4.83542078 | 0.70205335 | 0.41204074 | 0.39523228 |
| Camkv | 0.14180811 | 6.00284055 | 0.70202694 | 0.41204938 | 0.39523228 |
| Nnat | -0.2597204 | 8.65677086 | 0.70189756 | 0.41209173 | 0.39523228 |
| E2f8 | -0.5531152 | 0.8932315 | 0.70177336 | 0.41213239 | 0.39523228 |
| Rab3c | 0.13407569 | 9.29562799 | 0.70164293 | 0.41217509 | 0.39523228 |
| Rem2 | 0.5160891 | 0.43792714 | 0.70154875 | 0.41220593 | 0.39523228 |
| Zfp937 | 0.14611776 | 5.13090645 | 0.70153638 | 0.41220999 | 0.39523228 |
| Syt16 | 0.12267284 | 6.11761101 | 0.70138784 | 0.41225864 | 0.39523228 |
| Bfsp2 | 0.74081857 | -0.7331281 | 0.70130301 | 0.41228643 | 0.39523228 |
| Nr4a3 | 0.26207047 | 4.23225603 | 0.70049017 | 0.41257993 | 0.39547443 |
| Snap91 | 0.15311568 | 8.93722681 | 0.69919773 | 0.41297697 | 0.39581679 |
| Mob3b | 0.15070373 | 6.71471211 | 0.69840196 | 0.41323845 | 0.3960032 |
| Maged2 | -0.1394317 | 4.4644189 | 0.69835232 | 0.41325477 | 0.3960032 |
| Hsdl17b13 | -1.0007856 | -1.215818 | 0.69823682 | 0.41329275 | 0.3960032 |
| Cherp | 0.10790205 | 5.54780331 | 0.69799507 | 0.41337225 | 0.39604064 |
| Celf2 | 0.12549506 | 9.78204798 | 0.69760681 | 0.41349998 | 0.3960984 |
| Mtmr6 | -0.0955518 | 7.40515423 | 0.69752272 | 0.41352765 | 0.3960984 |
| Ropn1l | -0.8597052 | -1.0281018 | 0.69744311 | 0.41355386 | 0.3960984 |
| Acat2 | 0.1319029 | 5.25145575 | 0.69707219 | 0.41367597 | 0.39614169 |
| Lincrna-cox2 | 1.08873326 | -1.3891797 | 0.69706012 | 0.41367994 | 0.39614169 |
| Il17rd | 0.2861568 | 2.50258226 | 0.69659535 | 0.41383303 | 0.39624955 |
| Ak1r1c3 | -0.3537474 | 1.750315 | 0.69627386 | 0.41393897 | 0.39631226 |
| 9330159F19l | 0.16526901 | 6.85919471 | 0.69587391 | 0.41407083 | 0.39637858 |
| Tomm6os | 0.66372219 | -0.1003295 | 0.69581829 | 0.41408917 | 0.39637858 |
| Gene  | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Pkd1  | 0.38715075 | 1.33017718 | 0.69525466 | 0.41427511 | 0.39650758 |
| Pdre1 | -0.1881027 | 5.4404089 | 0.69511941 | 0.41431975 | 0.39650758 |
| Mapk10 | -0.1132727 | 9.60904329 | 0.69501387 | 0.41435459 | 0.39650758 |
| Shog6 | 0.30559817  | 1.68394643 | 0.69484637 | 0.41440989 | 0.39650758 |
| Lm82  | -0.1783859 | 4.39602433 | 0.69479657 | 0.41442634 | 0.39650758 |
| Ex9c6 | 0.1227614  | 5.37342463 | 0.69441115 | 0.41455352 | 0.39655856 |
| Cd248 | 0.23363544 | 4.35918922 | 0.69439008 | 0.41456059 | 0.39655856 |
| Sgg20 | 0.12399923 | 5.84138243 | 0.69370603 | 0.41478667 | 0.39673608 |
| Prka2 | 0.1153534 | 7.2938567 | 0.69333265 | 0.41491016 | 0.39681545 |
| H2-DMb1 | -0.5704576 | 0.53285769 | 0.69224236 | 0.41527107 | 0.39709688 |
| Vav2  | -0.2745011 | 1.76348009 | 0.69219876 | 0.41528551 | 0.39709688 |
| Gm16576 | 0.42395817 | 0.70651927 | 0.69207327 | 0.41532708 | 0.39709787 |
| Fcr216 | 0.53233331 | 0.28566598 | 0.69165229 | 0.41546659 | 0.39719249 |
| Manca | 0.13467671 | 5.51538336 | 0.69119704 | 0.41561754 | 0.39729802 |
| Saps2 | -1.0817628 | -1.1384531 | 0.69103644 | 0.41567081 | 0.39731018 |
| Dna17c | -0.3358782 | 2.30473884 | 0.69061982 | 0.41580905 | 0.39740353 |
| 1810022K09r | -0.1348883 | 4.99892239 | 0.69027039 | 0.41592506 | 0.39743763 |
| Map4k1 | 0.39170074 | 0.43633808 | 0.6901718 | 0.4159578 | 0.39743763 |
| Rcr3  | -0.1207974 | 5.44193821 | 0.69014573 | 0.41596645 | 0.39743763 |
| Pitpnm1 | 0.21933797 | 3.35286185 | 0.68977887 | 0.41608831 | 0.39751529 |
| Gm15446 | 0.33989451 | 1.42491026 | 0.68931821 | 0.41624141 | 0.39762277 |
| Apba1 | 0.13950874  | 6.80136776 | 0.68871308 | 0.41644265 | 0.39777622 |
| Lrrc3 | 0.19630907 | 3.66983848 | 0.68833375 | 0.41656888 | 0.39783568 |
| Nutm1 | 1.43823703  | -1.5031532 | 0.68825697 | 0.41659443 | 0.39783568 |
| Ica1  | 0.17889072 | 4.14762539 | 0.68815989 | 0.41662675 | 0.39783568 |
| Slco2b1 | 0.27905338 | 2.70595602 | 0.68798046 | 0.41668649 | 0.3978338 |
| Mir103-2 | 0.64149632 | 0.14579881 | 0.68774195 | 0.41676592 | 0.3978338 |
| Ad2l  | -0.1518062  | 3.96032848 | 0.68770642 | 0.41677776 | 0.3978338 |
| Erap1 | 0.25681003 | 3.54311035 | 0.6876638 | 0.41679196 | 0.3978338 |
| Khhl14 | 0.34707278 | 1.43658351 | 0.6875367 | 0.4168343 | 0.39783995 |
| Cenpb | -0.19039  | 4.12701979 | 0.68695868 | 0.41702697 | 0.39798506 |
| Krt77 | -0.7627142 | -0.5571166 | 0.68658811 | 0.41715052 | 0.39806419 |
| Pk1p  | -0.4415849 | 1.20327792 | 0.68627274 | 0.41725574 | 0.39809877 |
| Sepp1 | -0.1857765 | 8.0461809 | 0.68623586 | 0.41726804 | 0.39809877 |
| 1810014B01 | -0.2547756 | 2.62046531 | 0.68563397 | 0.41746897 | 0.39825168 |
| Tceal7 | -0.6874021 | -0.1028315 | 0.68536365 | 0.41755926 | 0.39829902 |
| Mettl12a | -0.2395748 | 2.89583709 | 0.68517209 | 0.41762326 | 0.39832128 |
| Mbnl2 | -0.1029936 | 9.1115468 | 0.68477067 | 0.41775743 | 0.39841045 |
| Fm1b  | 0.09912871 | 7.94531779 | 0.68411795 | 0.41797572 | 0.39851534 |
| Zfp444 | -0.1916242 | 3.28469872 | 0.68393621 | 0.41803654 | 0.39851534 |
| Ptger2 | -0.7099711 | -0.470083  | 0.68387032 | 0.41805859 | 0.39851534 |
| 2310061J03f | -0.324956 | 2.3589709 | 0.6836552 | 0.41806019 | 0.39851534 |
| Gzmm  | 1.04092013 | -1.6068137 | 0.68373165 | 0.418105 | 0.39851534 |
| Gene   | Correlation Coefficient |
|--------|-------------------------|
| Stk11  | -0.2050932  5.51305633 0.68366389 0.41812768 0.39851534 |
| Hectd2 | 0.16650678  4.47598569 0.68346063 0.41819574 0.39851534 |
| Pnma1  | 0.19788105  3.26626482 0.68340465 0.41821448 0.39851534 |
| G6pxd  | -0.1496009  5.75914343 0.6834766 0.41823357 0.39851534 |
| Eppk1  | -0.7501074 -0.5770483  0.68305866 0.41833037 0.39856881 |
| Scmh1  | -0.12250366 6.11744616 0.68213563 0.41863978 0.39882481 |
| Wfcd2  | -0.7462684  -0.6818079 0.681798  0.41875305 0.3988753 |
| Zmym5  | 0.11273011  6.59672674 0.6817349 0.41877422 0.3988753 |
| Dennd1c| 0.81908813  -0.2605778 0.68146993 0.41886315 0.39892122 |
| Pilra  | -0.6197276 -0.5315319  0.68100277 0.41902001 0.39897987 |
| Art3   | 0.80648123  -0.4051055 0.68098111 0.41902729 0.39897987 |
| Pcdha3 | 0.86704282  -0.4062687 0.68087243 0.41906379 0.39897987 |
| Elmod1 | 0.13164079  7.65046911 0.68080138 0.41908766 0.39897987 |
| Mterf1a| -0.4127431  1.18052134 0.68064956 0.41913867 0.39898965 |
| Mad2l2 | -0.2435004  3.11655822 0.68043718 0.41921004 0.39901882 |
| Dnah5  | 0.41479996  2.34714386 0.68029988 0.4192562  0.39902397 |
| Chaf1a | -0.3055854  1.78037866 0.67931272 0.41958825 0.39930121 |
| C2cd2  | 0.15882307  4.33129603 0.67856958 0.41983849 0.39950053 |
| Zfp507 | 0.1336943  4.73466432 0.67816441 0.41997503 0.39952155 |
| Rab10  | -0.1012565  8.51286959 0.67815311 0.41997883 0.39952155 |
| Cdkn2b | -1.0809021 -1.6133933 0.67814063 0.41998304 0.39952155 |
| Lancl1 | 0.11985659  6.54720907 0.67801995 0.42002372 0.39952155 |
| Best1  | -0.323942  1.46628805 0.67745897 0.42021291 0.39963976 |
| Zfp941 | 0.15069575  4.53019868 0.67740949 0.4202296  0.39963976 |
| Sh3pxd2a| -0.1585301  7.07643607 0.67706919 0.42034443 0.39967893 |
| Txndc15| 0.14796966  4.33369455 0.67704562 0.42035239 0.39967893 |
| Dusp6  | 0.17761029  5.38548791 0.67673145 0.42045846 0.39971535 |
| 5031439G07| 0.10769325  5.64957202 0.67669043 0.42047231 0.39971535 |
| Fgr    | 0.509415  0.32425747 0.67629029 0.42060746 0.39980502 |
| 1810034E14l| -0.418516  1.11510821 0.67611909 0.42066531 0.39982121 |
| Plaa   | 0.0889023  6.40093827 0.67590365 0.42073812 0.39984082 |
| Trmt2b | -0.2158741  5.21430636 0.67570206 0.42080627 0.39984082 |
| Tubb6  | -0.2390583  3.92177905 0.67558647 0.42084535 0.39984082 |
| Cmtm4  | -0.1070703  6.3562398 0.67551502 0.42086951 0.39984082 |
| CS30044C16l| -1.1061995 -1.6134224 0.67545432 0.42089004 0.39984082 |
| Pqbp1  | -0.1294978  4.38254597 0.67491375 0.42107292 0.39997577 |
| Kcnq5  | 0.15488228  6.25302514 0.67476013 0.42112492 0.39998637 |
| Apitd1 | -0.7826883  -0.4734113 0.67439718 0.4212478  0.40003027 |
| Pradc1 | -0.2349579  2.72955504 0.67438238 0.42125281 0.40003027 |
| Elac1  | -0.1252491  5.18459079 0.6738109 0.42144642 0.40017533 |
| Il18r1 | 0.79756603  -0.6174719 0.67325495 0.42163489 0.40023131 |
| Idnk   | -0.2217554  3.48742722 0.67320162 0.42165298 0.40023131 |
| Dgkz  | -0.1079064  6.32633871 0.67305223 0.42170365 0.40023131 |
| Gene  | Value1     | Value2     |
|-------|------------|------------|
| Itgb6 | -1.0263493 | -1.8874354 |
| Ccdc159 | 0.58980125 | 0.35808225 |
| Ttc30a2 | -0.4981966 | -0.1179123 |
| Lrrn4cl | -0.1271008 | 4.95697795 |
| Gjb6  | -0.1870686 | 8.86000288 |
| Aspm  | -0.3774991 | 1.19774706 |
| Zbtb26 | 0.12178082 | 4.37235312 |
| Tnpo3 | -0.1135525 | 6.1065511 |
| Ccdc71 | -0.1829027 | 4.25077004 |
| Brsk1 | -0.1690643 | 3.49277298 |
| Psmg1 | -0.2343653 | 3.13073301 |
| Lhfp  | -0.1787054 | 6.11296999 |
| Nup88 | 0.12321096 | 5.69244822 |
| Htatsf1 | -0.0868718 | 8.39789574 |
| Ninj1 | -0.4130457 | 2.11751895 |
| AW554918 | -0.1192063 | 4.9547317 |
| Cthrc1 | -0.1962817 | 2.88728204 |
| Aldh16a1 | 0.6268008 | 0.16075163 |
| Atp10b | 0.37519636 | 1.16803816 |
| Fgfrl1 | 0.2364487 | 2.25860153 |
| Thoc5 | 0.18659301 | 3.55371757 |
| Pdgfd | 0.30101712 | 3.02315085 |
| Tmem132e | 0.33559785 | 1.29276568 |
| Trip10 | -0.3540882 | 2.25482018 |
| Podxl | 0.11779286 | 4.29086336 |
| Ppp4r2 | -0.0989001 | 8.3018626 |
| Qttrt1 | 0.23316181 | 2.71706356 |
| Rnaseh2c | -0.3294014 | 2.73847874 |
| Gba   | -0.1503564 | 3.90078188 |
| Gnpda2 | -0.1368309 | 5.96309501 |
| 4430402I18R | -0.2081244 | 2.61787943 |
| Cbx7  | -0.1648357 | 4.92502466 |
| Fgfr3 | 0.16677716 | 3.90040749 |
| Gusb  | 0.2137531 | 2.80361293 |
| Setd5 | 0.10525674 | 8.40831928 |
| C2cd4d | -1.243296 | -2.1321454 |
| Rgs17 | -0.1332606 | 8.03310869 |
| Lrrc75b | 0.18242334 | 4.44886064 |
| Plin3 | -0.1820274 | 3.68225391 |
| Thbd  | -0.2336287 | 8.3227459 |
| Aebp1 | -0.2428778 | 7.19862456 |
| 2810013P06I | -0.164707 | 4.65624148 |
| Gene        | Value1  | Value2  | Value3  | Value4  | Value5  |
|------------|---------|---------|---------|---------|---------|
| Hsd11b2    | 1.155   | -1.414  | 0.663   | 0.424   | 0.402   |
| Synj2      | 0.147   | 0.458   | 0.663   | 0.425   | 0.401   |
| Tmem243    | 0.183   | 0.406   | 0.662   | 0.425   | 0.402   |
| Bphl       | -0.197  | 0.407   | 0.662   | 0.425   | 0.402   |
| Cxxc4      | -0.129  | 0.613   | 0.662   | 0.425   | 0.402   |
| Pdgfrb     | 0.245   | 0.427   | 0.662   | 0.425   | 0.402   |
| Vps26b     | -0.087  | 0.742   | 0.661   | 0.425   | 0.402   |
| Hmgb1      | -0.125  | 0.012   | 0.661   | 0.425   | 0.402   |
| Fam180a    | -0.293  | 0.515   | 0.661   | 0.425   | 0.402   |
| Synj2      | 0.147   | 0.458   | 0.663   | 0.425   | 0.401   |
| Tmem243    | 0.183   | 0.406   | 0.662   | 0.425   | 0.402   |
| Bphl       | -0.197  | 0.407   | 0.662   | 0.425   | 0.402   |
| Cxxc4      | -0.129  | 0.613   | 0.662   | 0.425   | 0.402   |
| Pdgfrb     | 0.245   | 0.427   | 0.662   | 0.425   | 0.402   |
| Vps26b     | -0.087  | 0.742   | 0.661   | 0.425   | 0.402   |
| Hmgb1      | -0.125  | 0.012   | 0.661   | 0.425   | 0.402   |
| Fam180a    | -0.293  | 0.515   | 0.661   | 0.425   | 0.402   |
| Gene   | Value1     | Value2     | Value3     | Value4     | Value5     | Value6     | Value7     | Value8     | Value9     | Value10    | Value11    | Value12    |
|--------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sytl4  | -0.3550418 | 2.35993316 | 0.65470432 | 0.4279998  | 0.40288324 |
| Gm12185| 0.39358476 | 0.86068717 | 0.65426636 | 0.42815207 | 0.40297846 |
| Afap1  | 0.15008702 | 7.61847143 | 0.65417611 | 0.42818342 | 0.40297846 |
| 1700018G05| -0.8398185 | -0.9983156 | 0.65387954 | 0.42828646 | 0.40299921 |
| Gpr151 | 1.16788283 | -1.6206207 | 0.65360973 | 0.42838025 | 0.40299921 |
| Vta1   | -0.1361747 | 5.04032592 | 0.65356143 | 0.42839704 | 0.40299921 |
| Wbp11  | -0.0993176 | 6.05145539 | 0.65340572 | 0.42845118 | 0.40299921 |
| 1700096K18| 0.39733482 | 1.18970557 | 0.65334534 | 0.42847218 | 0.40299921 |
| Wasf1  | 0.14281549 | 7.99226552 | 0.65320134 | 0.42852226 | 0.40299921 |
| Qser1  | 0.12908753 | 6.91275708 | 0.65305283 | 0.42857392 | 0.40299921 |
| Emx2   | -0.2003108 | 2.96208256 | 0.6529987 | 0.42859275 | 0.40299921 |
| Ccdc60 | -0.7720745 | -0.8743788 | 0.65265884 | 0.42871102 | 0.40299921 |
| Utp18  | -0.1346073 | 4.20392868 | 0.65261 | 0.42872802 | 0.40299921 |
| Dph6   | -0.099903 | 6.23839124 | 0.65252466 | 0.42875772 | 0.40299921 |
| Hs6st3 | 0.20580239 | 2.87786613 | 0.652511 | 0.42876248 | 0.40299921 |
| Six2   | -0.2052365 | 5.88949627 | 0.652481 | 0.42877293 | 0.40299921 |
| B3gnt8 | -0.6334141 | -0.1537182 | 0.65245638 | 0.4287815 | 0.40299921 |
| Ghitm  | -0.0897653 | 8.70164854 | 0.65233836 | 0.42882259 | 0.40299921 |
| 2310011J03F| 0.19645629 | 2.93385107 | 0.65164906 | 0.42906272 | 0.40318619 |
| Sc5d   | 0.13914509 | 4.4301661 | 0.65136867 | 0.42916045 | 0.40320103 |
| Asprv1 | -0.5122437 | 0.50430577 | 0.65136759 | 0.42916083 | 0.40320103 |
| Atp10d | 0.24833518 | 2.36718858 | 0.65108945 | 0.42925782 | 0.40325347 |
| Gm2897 | 0.18825908 | 3.6036603 | 0.65018849 | 0.42957222 | 0.40343379 |
| Pcbp4  | 0.21063457 | 2.70007356 | 0.65012144 | 0.42959563 | 0.40343379 |
| Zfp958 | 0.18819324 | 3.44409452 | 0.65000545 | 0.42963614 | 0.40343379 |
| LOC1010557| -1.3039348 | -1.8437998 | 0.65479323 | 0.42964369 | 0.40343379 |
| Trim39 | 0.13745981 | 4.31409837 | 0.64987054 | 0.42968326 | 0.40343379 |
| Cenpf  | -0.2138846 | 2.51014231 | 0.64983155 | 0.42969688 | 0.40343379 |
| Plekha4| 0.45280401 | 0.34010636 | 0.64923084 | 0.42990681 | 0.40357814 |
| Glra4  | -0.9368606 | -1.6182774 | 0.64911636 | 0.42994683 | 0.40357814 |
| Tcebb3 | -0.1256684 | 6.00143541 | 0.64902189 | 0.42997986 | 0.40357814 |
| Thtpa  | -0.1321053 | 4.55589553 | 0.64892017 | 0.43001544 | 0.40357814 |
| Zfp954 | -0.2980258 | 1.98684143 | 0.64867255 | 0.43010205 | 0.40358578 |
| Itgal  | -0.4460096 | 6.42699499 | 0.64866133 | 0.43010597 | 0.40358578 |
| Lix1   | -0.118189 | 4.84179322 | 0.64853881 | 0.43014884 | 0.40358734 |
| Pafahb1| 0.09451076 | 9.15130596 | 0.64815947 | 0.4302816 | 0.40367324 |
| 6030419C18| 0.28964135 | 2.38184951 | 0.64716624 | 0.43062953 | 0.40396095 |
| Lrmp   | 0.75529171 | -0.0754907 | 0.64690532 | 0.430721 | 0.40400807 |
| Kpna4  | -0.0817105 | 7.20475338 | 0.64655468 | 0.43084397 | 0.40408472 |
| Adprm  | -0.2083491 | 3.70174473 | 0.64642991 | 0.43088775 | 0.40408709 |
| Pal1   | -0.2969326 | 1.79750332 | 0.64618945 | 0.43097212 | 0.40412753 |
| Suclg2 | -0.1615503 | 5.58089658 | 0.64551185 | 0.43121004 | 0.40430001 |
| Bend3  | -0.1897424 | 4.24324062 | 0.64543048 | 0.43123862 | 0.40430001 |
| Gene    | Value 1  | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|---------|----------|---------|---------|---------|---------|---------|
| Acss2os | -0.887024 | -1.5760205 | 0.64515794 | 0.43133438 | 0.40432883 |
| Gmppb   | 0.40247298 | 0.94314568 | 0.64510807 | 0.43135191 | 0.40432883 |
| Csfr3r  | 0.35150888 | 1.43917202 | 0.6444536 | 0.43158201 | 0.40450176 |
| Adpgk   | 0.29361789 | 2.07154623 | 0.64438489 | 0.43161899 | 0.40450176 |
| Ccdc138 | -0.237573 | 2.60096319 | 0.64356646 | 0.43189423 | 0.4046888 |
| Tninp   | -0.1937823 | 6.72781444 | 0.64354669 | 0.43190119 | 0.4046888 |
| 3110001i22R | 0.34116349 | 1.10874887 | 0.6428937 | 0.43213124 | 0.40486562 |
| Akr1c12 | 0.92992267 | -0.1706401 | 0.64251921 | 0.43226326 | 0.40495058 |
| Prkacb  | -0.090178 | 9.17765633 | 0.64186911 | 0.43249259 | 0.40509822 |
| Emc7    | 0.1706451 | 5.39308965 | 0.641838 | 0.43250357 | 0.40509822 |
| Etv6    | -0.1186217 | 5.18970227 | 0.6414681 | 0.43263415 | 0.40515228 |
| Parg    | 0.10625551 | 5.62381836 | 0.64140691 | 0.43265576 | 0.40515228 |
| Zbtb1   | -0.1255332 | 4.59540125 | 0.64105358 | 0.43278055 | 0.40515228 |
| Aktip   | -0.1072515 | 6.09517602 | 0.64103371 | 0.43278757 | 0.40515228 |
| Tgm1    | 1.04639155 | -1.4017659 | 0.64088448 | 0.4328403 | 0.40515228 |
| Mia     | 0.52675055 | -0.1530321 | 0.64088124 | 0.43284144 | 0.40515228 |
| Lrcc47  | 0.26819328 | 2.66498574 | 0.64076173 | 0.43288368 | 0.40515228 |
| Fgd3    | 0.72601018 | -0.2428206 | 0.64073766 | 0.43289218 | 0.40515228 |
| Prdm6   | -0.2323834 | 5.62563107 | 0.63966688 | 0.43327089 | 0.40546798 |
| Ppp6r1  | -0.1365012 | 4.81027619 | 0.63921686 | 0.4334302 | 0.40556019 |
| Russ1c  | 0.15408823 | 5.8504456 | 0.63915465 | 0.43345223 | 0.40556019 |
| Med1    | -0.1049127 | 7.2607964 | 0.63859157 | 0.43365172 | 0.40570809 |
| Nedd4   | 0.08156984 | 9.5001887 | 0.63846602 | 0.43369622 | 0.40571097 |
| Ttc27   | 0.15957399 | 3.37302631 | 0.63804087 | 0.43384696 | 0.40581323 |
| Rundc3a | -0.1365749 | 5.33651374 | 0.63763341 | 0.43399151 | 0.40587088 |
| Ubc     | -0.126329 | 6.71051976 | 0.63754521 | 0.43402281 | 0.40587088 |
| Sf3a3   | 0.13009038 | 4.70077619 | 0.63742403 | 0.43406581 | 0.40587088 |
| Gm10865 | 0.45122374 | -0.4188497 | 0.63740001 | 0.43407434 | 0.40587088 |
| Az12    | -0.1156191 | 6.72420063 | 0.63714343 | 0.43416543 | 0.40590102 |
| Smim12  | 0.24299767 | 2.10273062 | 0.6370758 | 0.43418944 | 0.40590102 |
| Pgap2   | -0.1724024 | 4.20578138 | 0.63688536 | 0.43425708 | 0.40592551 |
| Gria4   | 0.13621465 | 6.76190526 | 0.63621655 | 0.43449473 | 0.40610897 |
| Gng5    | -0.1642043 | 6.39957695 | 0.63584339 | 0.43462742 | 0.4061849 |
| Srsf7   | 0.09510111 | 5.89883115 | 0.63564438 | 0.43469821 | 0.4061849 |
| Rerg    | 0.2968125 | 2.91998122 | 0.6356381 | 0.43470045 | 0.4061849 |
| Zksc2an | -0.1327562 | 4.76898938 | 0.63533317 | 0.43480895 | 0.40624754 |
| Plp2    | -0.2464532 | 4.26104445 | 0.63521502 | 0.43485101 | 0.40624808 |
| Dab2ip  | -0.1027586 | 6.24974934 | 0.63507094 | 0.4349023 | 0.40625725 |
| S1c35g1 | -0.2237048 | 4.50834341 | 0.63475722 | 0.43501401 | 0.40630462 |
| Aard    | 0.31699636 | 1.58846714 | 0.63469556 | 0.43503597 | 0.40630462 |
| Mpp5    | -0.1010253 | 6.90625661 | 0.63394581 | 0.43530316 | 0.40650473 |
| Arhgap42 | 0.1083606 | 5.70538165 | 0.63386148 | 0.43533323 | 0.40650473 |
| Purp    | -0.1367899 | 6.01491215 | 0.63373121 | 0.43537969 | 0.40650936 |
| Gene    | Expression 1 | Expression 2 | Expression 3 | Expression 4 | Expression 5 |
|---------|--------------|--------------|--------------|--------------|--------------|
| Insig2  | -0.0940219   | 6.13606135   | 0.6335059    | 0.43546006   | 0.40654034   |
| Mlh3    | -0.1110533   | 5.77549953   | 0.63340551   | 0.43549587   | 0.40654034   |
| Il18bp  | 0.254093     | 3.28860402   | 0.63311163   | 0.43560074   | 0.40659949   |
| Tmem35  | 0.18829944   | 3.85577349   | 0.63276383   | 0.43572491   | 0.4066496   |
| Nlgn2   | -0.1152867   | 6.3200892    | 0.63268259   | 0.43587516   | 0.40670983  |
| Zfp709  | 0.17253283   | 4.13899333   | 0.63234319   | 0.43587516   | 0.40670983  |
| Gpr124  | -0.1930027   | 4.91586024   | 0.6321554   | 0.43588504   | 0.40670983  |
| Spr     | 0.24811823   | 2.83179434   | 0.63206364   | 0.43598477   | 0.40676414  |
| Ccdc32  | -0.1623912   | 4.90145932   | 0.63180018   | 0.43606924   | 0.40677821  |
| Ppig    | -0.1291924   | 9.2691446    | 0.63164788   | 0.4361237    | 0.40677821  |
| 1190002N15 | 0.13136718   | 5.34921163   | 0.63164581   | 0.43612444   | 0.40677821  |
| 2210039B01 | 0.27921348   | 1.77921097   | 0.63120018   | 0.43612444   | 0.40677821  |
| Nlgn2   | -0.1152867   | 6.3200892    | 0.63268259   | 0.43587516   | 0.40670983  |
| Zfp709  | 0.17253283   | 4.13899333   | 0.63234319   | 0.43587516   | 0.40670983  |
| Gpr124  | -0.1930027   | 4.91586024   | 0.6321554   | 0.43588504   | 0.40670983  |
| Spr     | 0.24811823   | 2.83179434   | 0.63206364   | 0.43598477   | 0.40676414  |
| Ccdc32  | -0.1623912   | 4.90145932   | 0.63180018   | 0.43606924   | 0.40677821  |
| Ppig    | -0.1291924   | 9.2691446    | 0.63164788   | 0.4361237    | 0.40677821  |
| 1190002N15 | 0.13136718   | 5.34921163   | 0.63164581   | 0.43612444   | 0.40677821  |
| 2210039B01 | 0.27921348   | 1.77921097   | 0.63120018   | 0.43612444   | 0.40677821  |
| Gene       | 0.49722189 | -1.4318368 | 0.62160474 | 0.43973886 | 0.40884193 | 0.5424591 | -0.6068189 | 0.62149459 | 0.43977878 | 0.40884193 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| H2-Q5      | 0.11407513 | 5.98224862 | 0.62144186 | 0.43979789 | 0.40884193 | 0.16385418 | 6.28135969 | 0.62091666 | 0.43998829 | 0.4089467 |
| Btdb10     | 0.10068408 | 6.46665598 | 0.62090067 | 0.43999409 | 0.4089467 | 1.1822998 | 5.3883578 | 0.62066899 | 0.44007813 | 0.4089609 |
| Kcnh7      | 0.13607016 | 4.54314961 | 0.62048902 | 0.44014342 | 0.4089609 | -0.2596695 | 5.14775056 | 0.62048546 | 0.44014472 | 0.4089609 |
| Ccpped1    | 1.03334968 | -0.9489596 | 0.62039825 | 0.44017636 | 0.4089609 | -0.5409052 | 0.71528443 | 0.62015452 | 0.44026483 | 0.40899048 |
| Creb3l4    | 0.07649691 | 8.04491016 | 0.6192614 | 0.44058925 | 0.40908387 | -0.1003891 | 8.58000621 | 0.62008046 | 0.44029172 | 0.40899048 |
| Phf19      | 0.69945585 | 0.13617966 | 0.6199115 | 0.44035307 | 0.40900869 | -0.1824582 | 3.88038761 | 0.61974024 | 0.44041527 | 0.40902767 |
| Nucks1     | 1.09581283 | -0.5829634 | 0.61852003 | 0.44085883 | 0.40924562 | -0.193016 | 6.03592652 | 0.61823933 | 0.44096097 | 0.40930164 |
| Zfp37      | 0.13519455 | 6.80022442 | 0.61791345 | 0.4410796 | 0.40936416 | -0.6150421 | 0.33841072 | 0.61775309 | 0.44113799 | 0.40936416 |
| Acot3      | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 | 0.37604015 |
| Gm13152    | 0.37064015 | 1.28296953 | 0.61770995 | 0.4411537 | 0.40936416 | -0.9380803 | -1.9310366 | 0.61730813 | 0.44130008 | 0.40946121 |
| Mchr2      | -0.167225 | 4.96654256 | 0.61695447 | 0.44142898 | 0.40951393 | 0.36908176 | 0.78650113 | 0.61692282 | 0.44144052 | 0.40951393 |
| Fksp       | -0.1147909 | 5.29122087 | 0.6162921 | 0.44167056 | 0.40967865 | -1.2820736 | -1.3576428 | 0.61618677 | 0.441709 | 0.40967865 |
| B3gnt6     | -0.3299073 | 0.55509727 | 0.61609209 | 0.44174355 | 0.40967865 | -0.1868967 | 4.31556903 | 0.61575559 | 0.44186639 | 0.40971718 |
| Gm8197     | -0.1027736 | 8.00694298 | 0.61574911 | 0.44186876 | 0.40971718 | -0.1007509 | 6.24265239 | 0.61495329 | 0.4421595 | 0.40994797 |
| Mrpl33     | -0.07392637 | 5.40459204 | 0.61452942 | 0.44231448 | 0.40996649 | 0.15328419 | 4.36489916 | 0.61403016 | 0.44249713 | 0.41002814 |
| Sla1a4     | 0.16720076 | 4.33679528 | 0.61444079 | 0.4423469 | 0.40996649 | 0.11474629 | 5.52773881 | 0.61301679 | 0.44286825 | 0.41033047 |
| Gm5083     | -0.9201845 | -0.806053 | 0.61404273 | 0.44249254 | 0.41002814 | 0.11118909 | 5.37711587 | 0.61291054 | 0.44290719 | 0.41033047 |
| Porcn      | 0.11636905 | 10.0961384 | 0.61255039 | 0.4430922 | 0.41040159 | 0.31856419 | 1.75679054 | 0.61239765 | 0.44309523 | 0.41040159 |
| Flcn       | 0.11423515 | 4.56344802 | 0.61225876 | 0.44314618 | 0.41040159 | -0.1777916 | 7.87788273 | 0.61217188 | 0.44317805 | 0.41040159 |
| Gene       | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Adra1d     | -0.1458913 | 3.5059579 | 0.61194118 | 0.4432627 | 0.41040159 |
| Taf1d      | 0.14709392 | 3.99055053 | 0.61192036 | 0.44327034 | 0.41040159 |
| Fkbp7      | 0.22205712 | 3.61304404 | 0.61184978 | 0.44329625 | 0.41040159 |
| Nlgn1      | 0.14239002 | 6.61629113 | 0.61142806 | 0.44345107 | 0.41040159 |
| Tada3      | -0.1305569 | 5.0122739 | 0.61136702 | 0.44347349 | 0.41040159 |
| Tmtc1      | 0.12215907 | 8.45845134 | 0.61114938 | 0.44355343 | 0.41040159 |
| Sucla2     | -0.088248 | 6.74457014 | 0.61114747 | 0.44355414 | 0.41040159 |
| Ramp2      | -0.2152766 | 4.5868832 | 0.61112398 | 0.44356276 | 0.41040159 |
| Fzd4       | -0.2319409 | 2.98805303 | 0.61104389 | 0.44359219 | 0.41040159 |
| Slc22a6    | -0.2224181 | 7.15639669 | 0.61089956 | 0.44364523 | 0.41040159 |
| Rgag4      | 0.22987239 | 2.68256884 | 0.61083241 | 0.44366991 | 0.41040159 |
| Ptpn21     | -0.1476712 | 4.8586225 | 0.61076299 | 0.44369542 | 0.41040159 |
| Hya2       | 0.31853909 | 1.18618416 | 0.61057893 | 0.44376308 | 0.41040159 |
| Clec4a3    | 0.92582546 | -0.2808366 | 0.61055396 | 0.44377226 | 0.41040159 |
| Gba2       | 0.2048461 | 3.2358917 | 0.6105329 | 0.44378 | 0.41040159 |
| Cbfa2t2    | 0.0855453 | 6.40881928 | 0.6098601 | 0.44402749 | 0.41055344 |
| E130114P18I| 0.37358975 | 0.83679261 | 0.60985862 | 0.44402803 | 0.41055344 |
| Mapk12     | 0.27070167 | 1.78775596 | 0.6092169 | 0.44426429 | 0.41073311 |
| Nmt1       | 0.09474358 | 5.26669908 | 0.60834253 | 0.44458652 | 0.41098739 |
| Dusp2      | -0.7247652 | -1.032968 | 0.60824295 | 0.44462324 | 0.41098739 |
| Gm4285     | -0.2897698 | 1.33931549 | 0.60702191 | 0.44507392 | 0.41135261 |
| Fam49b     | 0.09953086 | 6.79964942 | 0.606945 | 0.44510233 | 0.41135261 |
| Cpsf3      | 0.11701777 | 5.09229648 | 0.60679344 | 0.44515833 | 0.41136554 |
| Ccdc30     | -0.2105427 | 3.32439912 | 0.60636775 | 0.44531567 | 0.41139698 |
| Nr4a1      | -0.4060828 | 4.92205442 | 0.60631006 | 0.445337 | 0.41139698 |
| AUO23762   | 0.17639124 | 3.25929013 | 0.60627474 | 0.44535006 | 0.41139698 |
| Zfp874b    | -0.1442264 | 4.64430705 | 0.60624694 | 0.44536034 | 0.41139698 |
| Olfr691    | 1.20553965 | -2.0704792 | 0.60563689 | 0.44558601 | 0.41154332 |
| Fibcd1     | -0.5295133 | 0.43586962 | 0.60559156 | 0.44560279 | 0.41154332 |
| Slc35a3    | 0.12066447 | 4.86209558 | 0.6051418 | 0.4457693 | 0.41165828 |
| Nmbr       | 0.54365319 | 0.19861684 | 0.6049966 | 0.44582307 | 0.41166913 |
| Pknox2     | -0.1041202 | 7.21215062 | 0.60436349 | 0.44605767 | 0.4117843 |
| Cntrl      | 0.16565787 | 4.31281987 | 0.60418743 | 0.44612295 | 0.4117843 |
| Bnip2      | -0.1337441 | 7.06219684 | 0.60406241 | 0.44616931 | 0.4117843 |
| Nfix       | -0.0982746 | 8.37197493 | 0.60402039 | 0.44618489 | 0.4117843 |
| Acly       | 0.1218097 | 7.0689687 | 0.60400334 | 0.44619122 | 0.4117843 |
| Tmem80     | 0.19452525 | 2.82179066 | 0.60384835 | 0.44624871 | 0.4117843 |
| Rnf144b    | -0.140953 | 4.36927858 | 0.60361968 | 0.44633355 | 0.4117843 |
| Arrb1      | 0.10839745 | 7.40032448 | 0.60355049 | 0.44635922 | 0.4117843 |
| Itgb1      | 0.15745276 | 6.34118709 | 0.60347255 | 0.44638815 | 0.4117843 |
| Tldc1      | 0.32321713 | 1.15750519 | 0.60346949 | 0.44638929 | 0.4117843 |
| Rnf170     | -0.1174992 | 5.90689747 | 0.60334797 | 0.44643439 | 0.4117843 |
| Map4k4     | 0.10832122 | 6.42734492 | 0.60318822 | 0.4464937 | 0.4117843 |
| Gene      | Value1 | Value2 |
|-----------|--------|--------|
| Phrf1     | 0.11965219 | 6.91741558 |
| Fmr1      | 0.15439285 | 5.44706084 |
| LOC101243624 | 0.60318661 | 0.4464943 |
| Mpp2      | 0.17512721 | 3.49013912 |
| 4933402D24 | 0.59359733 | 0.59389776 |
| Kctd10    | 0.59466998 | 0.59528774 |
| Itch      | 0.5953817  | 0.59682866 |
| Ptger4    | 0.59618705 | 0.59624093 |
| Srbd1     | 0.59629951 | 0.59671512 |
| Cd80      | 0.59675343 | 0.59716612 |
| Snord42a  | 0.59675115 | 0.59726622 |
| Cep162    | 0.59716612 | 0.59765454 |
| Vars      | 0.59765454 | 0.59814912 |
| Zfp358    | 0.59814912 | 0.59863824 |
| Oard1     | 0.59863824 | 0.59913732 |
| E130008D07 | 0.59913732 | 0.59964041 |
| Zxda      | 0.59964041 | 0.59913732 |
| Crlf2     | 0.59913732 | 0.59964041 |
| Fam98a    | 0.59964041 | 0.59913732 |
| Tmem53    | 0.59913732 | 0.59964041 |
| Myh4      | 0.59964041 | 0.59913732 |
| Gpr26     | 0.59913732 | 0.59964041 |
| Olfm3     | 0.59964041 | 0.59913732 |
| Rbm46     | 0.59913732 | 0.59964041 |
| Ighmbp2   | 0.59964041 | 0.59913732 |
| Kctd10    | 0.59913732 | 0.59964041 |
| Ttc39d    | 0.59964041 | 0.59913732 |
| Myoc      | 0.59913732 | 0.59964041 |
| Kcnip2    | 0.59964041 | 0.59913732 |
| Frmd5     | 0.59913732 | 0.59964041 |
| Tfap4     | 0.59964041 | 0.59913732 |
| Cstf2     | 0.59913732 | 0.59964041 |
| Hat1      | 0.59964041 | 0.59913732 |
| Nutf2     | 0.59913732 | 0.59964041 |
| Psme2b    | 0.59964041 | 0.59913732 |
| Ifngr1    | 0.59913732 | 0.59964041 |
| BC030307   | 0.59964041 | 0.59913732 |
| 1700109H08 | 0.59913732 | 0.59964041 |
| Mpp2      | 0.59964041 | 0.59913732 |
| Wdr86     | 0.59913732 | 0.59964041 |
| LOC1012436 | 0.59964041 | 0.59913732 |
| Fmr1      | 0.59913732 | 0.59964041 |
| Phrf1     | 0.59964041 | 0.59913732 |

0.4134422
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   |
|--------|----------|----------|----------|----------|----------|----------|
| Gars   | 0.08868976 | 6.01948736 | 0.59307652 | 0.45027371 | 0.41359543 |
| Mtus2  | -0.0945876 | 6.24056567 | 0.59290269 | 0.45033915 | 0.41361675 |
| 1700003E16I | 0.39422991 | 0.61505747 | 0.59274094 | 0.45040005 | 0.4136339 |
| Khil28 | 0.17825499 | 3.90429028 | 0.59250533 | 0.45048878 | 0.41367562 |
| Calhm2 | 0.2800058  | 2.54101821 | 0.59239619 | 0.45066778 | 0.41374621 |
| 4930583P06I | 0.96280144 | -1.6649089 | 0.59187129 | 0.45072771 | 0.41374621 |
| Zic3   | 0.34719919 | 1.36545791 | 0.59187129 | 0.45072771 | 0.41374621 |
| Klhl28 | 0.17825499 | 3.90429028 | 0.59250533 | 0.45048878 | 0.41367562 |
| Calhm2 | 0.2800058  | 2.54101821 | 0.59239619 | 0.45066778 | 0.41374621 |
| 4930583P06I | 0.96280144 | -1.6649089 | 0.59187129 | 0.45072771 | 0.41374621 |
| Zic3   | 0.34719919 | 1.36545791 | 0.59187129 | 0.45072771 | 0.41374621 |
| Klhl28 | 0.17825499 | 3.90429028 | 0.59250533 | 0.45048878 | 0.41367562 |
| Calhm2 | 0.2800058  | 2.54101821 | 0.59239619 | 0.45066778 | 0.41374621 |
| 4930583P06I | 0.96280144 | -1.6649089 | 0.59187129 | 0.45072771 | 0.41374621 |
| Zic3   | 0.34719919 | 1.36545791 | 0.59187129 | 0.45072771 | 0.41374621 |
| Klhl28 | 0.17825499 | 3.90429028 | 0.59250533 | 0.45048878 | 0.41367562 |
| Calhm2 | 0.2800058  | 2.54101821 | 0.59239619 | 0.45066778 | 0.41374621 |
| 4930583P06I | 0.96280144 | -1.6649089 | 0.59187129 | 0.45072771 | 0.41374621 |
| Zic3   | 0.34719919 | 1.36545791 | 0.59187129 | 0.45072771 | 0.41374621 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Atg4d  | 0.26233684 | 2.16866913 | 0.58309755 | 0.45405515 | 0.41539386 |
| Neurl2 | -0.6731429 | -0.3121361 | 0.58282961 | 0.45415739 | 0.41541165 |
| Tcte1  | -0.5271873 | 0.71897727 | 0.58282431 | 0.45415941 | 0.41541165 |
| Foxo3  | -0.1078844 | 6.59802806 | 0.58267564 | 0.45421616 | 0.41542477 |
| Pxylp1 | 0.1700068 | 3.30128163 | 0.58202245 | 0.45446563 | 0.41561412 |
| Ankrd27| 0.09961047 | 5.38224598 | 0.58178154 | 0.45455769 | 0.41563382 |
| Pnma2  | -0.1134254 | 6.40633816 | 0.58174403 | 0.45457203 | 0.41563382 |
| Snora30| 0.87300071 | -1.4576189 | 0.58155066 | 0.45464595 | 0.41566261 |
| Tmem38b| 0.18238298 | 3.18923667 | 0.58140008 | 0.45470325 | 0.4156762 |
| Asb15  | 0.51026399 | 0.58360885 | 0.58104553 | 0.45483914 | 0.41575309 |
| Ssb    | -0.0957165 | 8.09090107 | 0.58095901 | 0.45487225 | 0.41575309 |
| Gem    | -0.5866556 | 2.8642039 | 0.57918936 | 0.45555021 | 0.41624434 |
| Ptplb  | -0.1253185 | 5.00768767 | 0.57917511 | 0.45555658 | 0.41624443 |
| Src    | -0.1899936 | 3.27587709 | 0.57911928 | 0.45557709 | 0.41624443 |
| Tti1   | 0.14430067 | 4.735674 | 0.57892868 | 0.45565022 | 0.41624443 |
| Chrm4  | 0.2617097 | 2.00723448 | 0.57888737 | 0.45566607 | 0.41624434 |
| Ccnf   | 0.44698792 | 8.1005706 | 0.57874841 | 0.4557194 | 0.41624443 |
| 1700012D14 | 0.67155994 | -0.1883919 | 0.57871133 | 0.45573363 | 0.41624443 |
| Acp6   | -0.2611162 | 2.46566331 | 0.57866927 | 0.45574977 | 0.41624443 |
| Gtf2a1l| -1.1834335 | -1.665669 | 0.57831277 | 0.45588665 | 0.41633062 |
| Tbx2r  | 1.00299801 | -2.105866 | 0.57789997 | 0.45604522 | 0.41643661 |
| Eif2s1 | -0.0927017 | 6.78122622 | 0.57684306 | 0.45645164 | 0.41676888 |
| D330023K18 | -0.3831804 | 1.2343076 | 0.57650078 | 0.45658339 | 0.41683851 |
| 9430038I01R | 0.48253616 | 0.73306406 | 0.57642383 | 0.45661301 | 0.41683851 |
| Shq1   | -0.3484251 | 1.05411316 | 0.57630991 | 0.45665688 | 0.41683971 |
| Zfp821 | -0.1660359 | 3.53873423 | 0.57600657 | 0.45677372 | 0.41690751 |
| 3110039I08R | 0.52593762 | -0.0970578 | 0.57584879 | 0.45683451 | 0.41692415 |
| Lonp2  | 0.09714533 | 5.557762 | 0.57554412 | 0.45695193 | 0.41698453 |
| Il5ra  | -0.8983168 | -0.831976 | 0.57545624 | 0.45698582 | 0.41698453 |
| Angptl6| -0.4887479 | -0.1215775 | 0.57523405 | 0.45707149 | 0.41702386 |
| Pkdcc  | 0.4079346 | 0.20160882 | 0.57509257 | 0.45712606 | 0.41703014 |
| Ncoa7  | 0.10907178 | 6.32087926 | 0.57499548 | 0.45716352 | 0.41703014 |
| Cdkl5  | 0.1293596 | 8.25420541 | 0.57483953 | 0.45722369 | 0.41703022 |
| Parp6  | -0.1213545 | 5.88867392 | 0.57477456 | 0.45724876 | 0.41703022 |
| Aasdhppt | 0.11016015 | 5.24523466 | 0.57420216 | 0.45746974 | 0.41713868 |
| Mtrr   | 0.1480956 | 4.01069066 | 0.5739884 | 0.45755231 | 0.41713868 |
| Cyp27a1 | -0.2998452 | 1.73152539 | 0.57392835 | 0.45757551 | 0.41713868 |
| Ankrd23 | 0.57442828 | -0.7013477 | 0.57388997 | 0.45759034 | 0.41713868 |
| Cyth1  | 0.18358724 | 3.89157414 | 0.57380876 | 0.45762172 | 0.41713868 |
| Gm20125| -1.1201441 | -1.3196063 | 0.57366369 | 0.45767779 | 0.41713868 |
| Dact2  | -0.224378 | 2.14960065 | 0.57359954 | 0.45770258 | 0.41713868 |
| Zfand2b | 0.33817843 | 1.87465094 | 0.57358458 | 0.45770836 | 0.41713868 |
| Nipal3 | 0.16013574 | 4.4565347 | 0.57298382 | 0.45794068 | 0.41731158 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Usp18 | -0.2760218 | 1.69808751 | 0.57280231 | 0.45801091 | 0.41733675 |
| Tmem108 | 0.22896246 | 3.46789091 | 0.57251188 | 0.45812332 | 0.41740035 |
| Tlr4 | -0.2040392 | 4.43886686 | 0.57233897 | 0.45819027 | 0.41742252 |
| Tstd1 | 0.78454685 | -1.3567026 | 0.57203006 | 0.4583099 | 0.41749268 |
| Frrs1l | 0.11649526 | 7.44286109 | 0.57183822 | 0.45838423 | 0.41752156 |
| Aup1 | 0.23607478 | 3.08808871 | 0.57160968 | 0.4584728 | 0.41756341 |
| Fam110b | -0.1722939 | 3.61497942 | 0.57132917 | 0.45858155 | 0.41762362 |
| Fam53a | 0.17014361 | 3.55264989 | 0.57098653 | 0.45871444 | 0.41770581 |
| Phkg1 | 0.27480818 | 1.630539 | 0.57069015 | 0.45882944 | 0.41777169 |
| Plekho2 | -0.1884386 | 4.99004047 | 0.57016572 | 0.45903304 | 0.41791823 |
| Zfp84 | -0.1134775 | 5.15423552 | 0.57004716 | 0.45907909 | 0.41792131 |
| Dctn1 | 0.14476476 | 5.19929677 | 0.56953057 | 0.45927983 | 0.4180652 |
| Ncs1 | 0.12173244 | 6.14444869 | 0.56912665 | 0.45943689 | 0.41811264 |
| Ncl | 0.08969094 | 8.89214441 | 0.56907376 | 0.45945746 | 0.41811264 |
| Amt | -0.3007694 | 1.03484184 | 0.56906721 | 0.45946 | 0.41811264 |
| 1700030J22 | 0.19315837 | 3.65914995 | 0.56869123 | 0.45960629 | 0.41817713 |
| Mfsd5 | -0.193373 | 3.64305993 | 0.56854963 | 0.4596614 | 0.41817713 |
| Exoc3l | -0.324041 | 1.39302069 | 0.56847874 | 0.459689 | 0.41817713 |
| Nlrp3 | -0.677134 | -0.9564663 | 0.56844627 | 0.45970164 | 0.41817713 |
| Mthfs | -0.2241621 | 2.33692126 | 0.56823433 | 0.45978416 | 0.41819901 |
| Nrap | 0.84470027 | -1.1094914 | 0.56816521 | 0.45981108 | 0.41819901 |
| Slc35c2 | -0.2892808 | 1.83053402 | 0.56750461 | 0.46006848 | 0.41839427 |
| Tmem184c | 0.10757029 | 6.04331967 | 0.56657876 | 0.46042962 | 0.4186813 |
| Egf | 1.05638126 | -1.2277752 | 0.56647638 | 0.46046959 | 0.4186813 |
| Fxn | 0.22893001 | 2.26426653 | 0.56608026 | 0.46062426 | 0.41872987 |
| Emc10 | -0.1465642 | 5.07381744 | 0.56600166 | 0.46065497 | 0.41872987 |
| Ppp4r1 | 0.13582425 | 4.32499418 | 0.56595999 | 0.46067125 | 0.41872987 |
| Npy1r | -0.1265007 | 5.20521963 | 0.56565408 | 0.46079078 | 0.41872987 |
| 5033404E19 | 1.02622785 | -1.5114324 | 0.56564852 | 0.46079295 | 0.41872987 |
| Slc16a6 | 0.17786612 | 3.11581184 | 0.56558322 | 0.46081847 | 0.41872987 |
| Rad21 | -0.0864104 | 7.13610302 | 0.56557358 | 0.46082224 | 0.41872987 |
| Zcchc16 | 0.21695645 | 2.91030763 | 0.56537554 | 0.46089966 | 0.41876137 |
| Slc14a2 | -0.7206941 | -0.4003729 | 0.56524074 | 0.46095237 | 0.41877042 |
| Ppp4r1l-ps | -0.2988846 | 1.82378909 | 0.56509711 | 0.46100854 | 0.41878261 |
| Arfip1 | -0.1472008 | 6.0988811 | 0.56464079 | 0.46118708 | 0.41889341 |
| Orc3 | 0.08795577 | 7.85503594 | 0.56456677 | 0.46121605 | 0.41889341 |
| Snx11 | 0.17335276 | 3.09313506 | 0.56425085 | 0.46133973 | 0.41895607 |
| Lrwd1 | 0.2871657 | 1.80651946 | 0.56417209 | 0.46137057 | 0.41895607 |
| Sec16b | 0.72506955 | -0.2236277 | 0.56342008 | 0.46166524 | 0.41918479 |
| 9530082P2 | 0.11687298 | 5.19462914 | 0.56251356 | 0.46202087 | 0.41946881 |
| Gt(Rosa)26 | 0.21350823 | 2.76247461 | 0.56188779 | 0.46226662 | 0.41965303 |
| Fxyd5 | -0.2218535 | 6.75997088 | 0.56168655 | 0.46235277 | 0.41968999 |
| Ppp2r2b | 0.09576165 | 6.76285514 | 0.5614598 | 0.46243482 | 0.41968999 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  |
|-------|---------|---------|---------|---------|---------|
| Kcna5 | 0.3561004 | 0.85548491 | 0.55291645 | 0.46581366 | 0.42107795 |
| Nxn   | -0.2197936 | 5.05717024 | 0.5527896 | 0.46586414 | 0.42108472 |
| Psd3  | 0.12115978 | 9.82749616 | 0.55265931 | 0.46591599 | 0.42108982 |
| Sat2  | 0.21175671 | 2.12702867 | 0.55255941 | 0.46595576 | 0.42108982 |
| Ppm1f | 0.12287497 | 4.58566477 | 0.55242401 | 0.46600966 | 0.42109013 |
| Brdt  | -0.1524131 | 4.23195234 | 0.55232815 | 0.46604783 | 0.42109013 |
| Abtb1 | -0.2572334 | 1.96667002 | 0.55221113 | 0.46609443 | 0.42109013 |
| SgcD  | 0.21933381 | 2.93559348 | 0.55207102 | 0.46615024 | 0.42109013 |
| Pabpc1l| -1.2819445 | -1.9515663 | 0.55201879 | 0.46617105 | 0.42109013 |
| Tpr   | 0.09781383 | 9.14637842 | 0.55184086 | 0.46624194 | 0.42111533 |
| Mis18a| 0.21338723 | 1.95977578 | 0.55151004 | 0.46637383 | 0.4211956 |
| Rprd1a| -0.1029727 | 6.72617376 | 0.55138917 | 0.466422 | 0.42120029 |
| Gsg1  | -0.7395722 | -0.8084375 | 0.55103734 | 0.46653583 | 0.42126425 |
| AnkrD50| 0.11066812 | 5.18671778 | 0.55057281 | 0.4667477 | 0.4213934 |
| AnkrD45| -0.1147197 | 6.27744958 | 0.55043924 | 0.46680103 | 0.4213934 |
| Adcy7 | 0.33954767 | 1.81924374 | 0.55042198 | 0.46680792 | 0.4213934 |
| Ergic2 | 0.12886487 | 4.64021062 | 0.55030724 | 0.46685374 | 0.42139592 |
| Tex14 | -0.7475675 | -0.4598515 | 0.55013035 | 0.46692439 | 0.42142086 |
| Rnh1  | 0.1546065 | 4.45654197 | 0.54997521 | 0.46698637 | 0.42143797 |
| Trhr2 | -0.4887448 | 0.03532587 | 0.54965016 | 0.46711627 | 0.42151636 |
| Nono  | -0.0763277 | 7.47503312 | 0.54886644 | 0.46742972 | 0.42176036 |
| Uqcrcc1| 0.10061358 | 5.02004495 | 0.54839326 | 0.46761914 | 0.42187768 |
| Vps72 | -0.2788476 | 2.61179427 | 0.54832647 | 0.46764588 | 0.42187768 |
| Flna  | 0.12189055 | 5.69101565 | 0.54819781 | 0.46769742 | 0.42188532 |
| Gm17821| 0.14164703 | 9.70641566 | 0.54761326 | 0.46793166 | 0.42205775 |
| Polg2 | -0.4177958 | 0.97007582 | 0.54713528 | 0.46812334 | 0.42216112 |
| Gm10406| 0.52678407 | -0.4766145 | 0.5468807 | 0.46822549 | 0.42216112 |
| Fchsd2 | 0.08931454 | 6.70699461 | 0.54686724 | 0.46823089 | 0.42216112 |
| Csnk2a2| -0.1366739 | 5.19443205 | 0.54683984 | 0.46824188 | 0.42216112 |
| 07-Sep| -0.104412 | 9.11917513 | 0.54671951 | 0.46829018 | 0.42216112 |
| Shc2  | 0.14835255 | 4.57055209 | 0.54668294 | 0.46830486 | 0.42216112 |
| Ppp1r3fos| -0.9599899 | 0.05384402 | 0.54623934 | 0.46848298 | 0.42228283 |
| Poln  | 0.71797996 | -1.1123698 | 0.54596116 | 0.46859474 | 0.4223191 |
| 1110057K04l | 0.10410248 | 5.54252814 | 0.54592456 | 0.46860945 | 0.4223191 |
| Wipf2 | -0.0926303 | 7.56041348 | 0.54543852 | 0.46880484 | 0.42245632 |
| Kcnh2 | 0.24109612 | 2.32121856 | 0.54522373 | 0.46889123 | 0.4224953 |
| Flywch1| -0.1665259 | 3.82844992 | 0.54509667 | 0.46894234 | 0.42250249 |
| Aurka | 0.43775692 | -0.188556 | 0.54470626 | 0.46909945 | 0.42257399 |
| Tmpo | -0.1333421 | 5.86284667 | 0.54466096 | 0.46911769 | 0.42257399 |
| A43090L17l | 0.73566061 | 0.76348656 | 0.54547794 | 0.46915112 | 0.42257399 |
| Sparc | -0.2108228 | 8.82825556 | 0.54424638 | 0.46928464 | 0.4226554 |
| A330076C08 | -0.6256314 | 0.12744797 | 0.54385029 | 0.46944424 | 0.42276026 |
| Cdh5  | -0.1908964 | 5.44742373 | 0.54351319 | 0.46958014 | 0.4227853 |
| Gene       | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| Dcn        | -0.216971 | 7.6761973 | 0.54346128 | 0.46960107 | 0.4227853 |
| Dnajb11    | -0.0993213 | 5.90712065 | 0.54339745 | 0.46962682 | 0.4227853 |
| Pkn1       | -0.2722533 | 2.85347814 | 0.54335313 | 0.46964469 | 0.4227853 |
| Cd34       | 0.17577572 | 3.49869475 | 0.54290468 | 0.46982563 | 0.42290932 |
| Scarf1     | -0.6886702 | -0.7980304 | 0.54273606 | 0.46989369 | 0.42293172 |
| Gfm1       | 0.15681099 | 4.55150656 | 0.54257685 | 0.46995797 | 0.42295071 |
| Helq       | 0.24908673 | 2.56920515 | 0.54165431 | 0.47033072 | 0.42324729 |
| Gm3500     | -0.4379375 | -0.3763363 | 0.54133976 | 0.47045793 | 0.42328464 |
| Lim2       | 0.21159846 | 2.67256742 | 0.54092566 | 0.47062548 | 0.42328464 |
| Prrx1      | -0.1538906 | 7.06862892 | 0.54091544 | 0.47062962 | 0.42328464 |
| Enpp3      | 0.38674606 | 0.61980347 | 0.54090261 | 0.47063481 | 0.42328464 |
| Ddost      | 0.1222411  | 4.27040541 | 0.5408311  | 0.47066375 | 0.42328464 |
| Serinc5    | 0.14203892 | 5.0789743  | 0.54082452 | 0.47066642 | 0.42328464 |
| Sdccp      | -0.0996137 | 9.43623157 | 0.54078661 | 0.47068176 | 0.42328464 |
| Itpripl2   | 0.14206563 | 5.91294504 | 0.54069727 | 0.47071793 | 0.42328464 |
| Il1r1      | -0.1589487 | 4.30797735 | 0.54053874 | 0.47078212 | 0.42330351 |
| BC029722   | 0.28789843 | 2.07928093 | 0.54027584 | 0.47088861 | 0.42336039 |
| Nudt5      | -0.2268967 | 2.90762845 | 0.54008569 | 0.47096565 | 0.4233908 |
| Nrarp      | -0.2407733 | 2.7117854  | 0.53978278 | 0.47108843 | 0.42342588 |
| Nkg7       | -0.7361525 | 0.02728111 | 0.53962873 | 0.47115089 | 0.42342588 |
| Trim68     | 0.34029819 | 1.24116995 | 0.53948715 | 0.4712083 | 0.42342588 |
| 4930525G20 | 0.25191697 | 2.28997565 | 0.53937624 | 0.47125329 | 0.42342588 |
| Slc25a46   | 0.09045373 | 7.86801122 | 0.53924801 | 0.47130531 | 0.42342588 |
| Ring1      | -0.1336621 | 4.47181518 | 0.53914019 | 0.47134906 | 0.42342588 |
| Trim46     | 0.15962189 | 4.42013848 | 0.53911969 | 0.47135737 | 0.42342588 |
| Emr4       | 0.97401495 | -1.2104886 | 0.53907721 | 0.47137462 | 0.42342588 |
| Fgf13      | 0.12004009 | 6.45146223 | 0.53903013 | 0.47139372 | 0.42342588 |
| Mogs       | 0.29195825 | 1.72178949 | 0.53807497 | 0.47178163 | 0.42373546 |
| Mok        | 0.21989732 | 2.36552259 | 0.53788338 | 0.47185951 | 0.42373994 |
| Harb1      | -0.2848273 | 2.1471248  | 0.53784984 | 0.47187314 | 0.42373994 |
| Cebpz      | 0.08478655 | 6.19603558 | 0.53769292 | 0.4719372 | 0.42375862 |
| Hvcn1      | 0.51830279 | -0.3066528 | 0.53702181 | 0.47220997 | 0.42396467 |
| Rfng       | 0.16791539 | 3.51082264 | 0.53672159 | 0.47233219 | 0.42400885 |
| Srek1      | 0.11235715 | 6.65390786 | 0.53668831 | 0.47234574 | 0.42400885 |
| Ric8       | -0.1236499 | 5.22884109 | 0.53622268 | 0.47253541 | 0.42410424 |
| A4galt     | 0.2098386 | 2.77150386 | 0.53600306 | 0.47262492 | 0.42418171 |
| Wls        | 0.15521251 | 5.22275416 | 0.53578775 | 0.4727127 | 0.42419426 |
| Zc3h4      | -0.1123488 | 5.87777576 | 0.53569359 | 0.47275109 | 0.42419426 |
| Ap1b1      | 0.11198406 | 5.70390084 | 0.53550042 | 0.47282988 | 0.42419426 |
| Lat2       | 0.47621647 | -0.025745  | 0.53549597 | 0.4728317 | 0.42419426 |
| Tfpi       | -0.1771942 | 6.01795099 | 0.53543781 | 0.47285542 | 0.42419426 |
| BC005537   | -0.0993991 | 7.01994452 | 0.53531211 | 0.47290671 | 0.42420141 |
| Kdm4d      | -0.5910118 | -0.1753256 | 0.53504691 | 0.47301493 | 0.42423832 |
| Gene   | Atf1 | Tubb2b | 1810019D21 | Abhd11os | 3000002C10l | Thsd1 | Pcdhga8 | Panx1 | Chat | Smyd5 | Wdr12 | Nasp | Slc25a5 | Col4a5 | Klf8 | Snrnp40 | Mvd | Hs3st6 | Kcnk13 | Dcaf5 | Tvp23a | Akr1b8 | 1810024B03 | Orai3 | Wdr91 | Nipal4 | Clcn7 | Slc16a9 | Mfsd2a | Hmgxb3 | Qsox1 | Gprc5b | Sf3a1 | Dact3 | Star | Lyg6e | Glt28d2 | Pmel | Col12a1 | Pex6 | Plce1 | Tmem86a | Slc17a8 |
|--------|------|--------|------------|----------|------------|-------|---------|-------|------|-------|-------|------|--------|--------|------|--------|-------|-------|--------|-------|-----------|-------|-------|--------|-------|---------|-------|--------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   |
|--------|----------|----------|----------|----------|----------|----------|
| Thrb   | -0.1018716 | 7.02512197 | 0.52560224 | 0.47689663 | 0.42599087 |
| 2510003E04I| 0.10070619 | 7.09266894 | 0.52558897 | 0.47690212 | 0.42599087 |
| Slfn2  | 0.52193125  | 0.01257306 | 0.52546115 | 0.47695502 | 0.42599259 |
| Rasf7  | -0.53088897 | 0.14261191 | 0.52537418 | 0.47699103 | 0.42599259 |
| Ripk4  | -0.5618757  | -0.0521389 | 0.52495799 | 0.47716337 | 0.42601613 |
| Nkx3-1 | -0.4535947  | 0.14710856 | 0.52491392 | 0.47718162 | 0.42601613 |
| P4ha2  | 0.21807814  | 1.85672875 | 0.52486859 | 0.4772004  | 0.42601613 |
| Mios   | -0.1303399  | 4.46628771 | 0.52484426 | 0.47721048 | 0.42601613 |
| Maml2  | -0.1251969  | 5.76477574 | 0.52472427 | 0.47726019 | 0.42601613 |
| Ankrd13a | -0.1158388 | 4.90859285 | 0.52468049 | 0.47727834 | 0.42601613 |
| Zfp592 | -0.1084688  | 5.65613648 | 0.52439206 | 0.47739788 | 0.42608401 |
| Ago2   | -0.0871031  | 7.24356027 | 0.52421692 | 0.4774705  | 0.42610999 |
| Csnk1g2 | -0.1468115  | 5.59108536 | 0.52379613 | 0.47764504 | 0.42622693 |
| Ccdc79 | 0.40700094  | 9.1589966  | 0.52359089 | 0.47773021 | 0.4262641 |
| Hmox2  | -0.1568241  | 5.03916106 | 0.52344415 | 0.47779112 | 0.42627961 |
| Dtnb   | 0.12922007  | 4.6439669  | 0.52301303 | 0.47797015 | 0.4264005 |
| Atad2  | 0.17281662  | 4.80944559 | 0.5228469  | 0.47803917 | 0.42642324 |
| Cd4    | 0.2819951   | 3.24034563 | 0.52225146 | 0.47828669 | 0.42660518 |
| Aplnr  | -0.9698856  | -1.2725046 | 0.52208397 | 0.47835635 | 0.42662847 |
| Rnf26  | -0.1917739  | 3.12694688 | 0.52136018 | 0.47865758 | 0.42682104 |
| Lasp1  | -0.0798308  | 6.52538605 | 0.52127848 | 0.4786916  | 0.42682104 |
| Tmem178 | 0.10378719  | 5.34075358 | 0.52113327 | 0.47875209 | 0.42682104 |
| Lat    | 0.77961432  | -1.0664694 | 0.52091572 | 0.47884272 | 0.42682104 |
| Bpnt1  | 0.09042029  | 6.08443902 | 0.52089286 | 0.47885224 | 0.42682104 |
| Pam16  | -0.1633845  | 3.18915383 | 0.52085993 | 0.47886597 | 0.42682104 |
| Cdc5l  | -0.0738899  | 6.18232915 | 0.52083277 | 0.47887729 | 0.42682104 |
| Adar   | 0.13863058  | 6.00892083 | 0.52038563 | 0.47906369 | 0.42694833 |
| Sarm1  | 0.21638632  | 3.71037135 | 0.52019668 | 0.47914249 | 0.42695149 |
| Socs3  | -0.2817574  | 1.04320367 | 0.5201681 | 0.47915441 | 0.42695149 |
| Commd2 | -0.1405695  | 4.30203494 | 0.51993339 | 0.47925234 | 0.42699991 |
| Wnt5a  | -0.1404705  | 5.5511028  | 0.51980653 | 0.47930528 | 0.42700265 |
| Stxbp4 | -0.104527   | 7.33360469 | 0.51958136 | 0.47939927 | 0.42700265 |
| Clgalt1c1 | -0.1607537 | 4.60541063 | 0.51954054 | 0.47941631 | 0.42700265 |
| Srek1p1 | -0.1149096  | 6.02457811 | 0.51950827 | 0.47942979 | 0.42700265 |
| Nomo1  | 0.119657    | 5.3458177  | 0.51912436 | 0.47959014 | 0.42706959 |
| Cox16  | 0.15296824  | 4.60842813 | 0.51890168 | 0.47968318 | 0.42706959 |
| Sema6a | 0.13058446  | 5.73162937 | 0.51883118 | 0.47971265 | 0.42706959 |
| Pik3r2 | -0.1298121  | 4.18510452 | 0.51876894 | 0.47973867 | 0.42706959 |
| Rtn4ip1 | -0.2013618  | 3.29227625 | 0.51876088 | 0.47974203 | 0.42706959 |
| Oxtr   | 0.22244408  | 3.55185533 | 0.51870225 | 0.47976654 | 0.42706959 |
| St18   | -0.2088515  | 3.77041997 | 0.51834663 | 0.47991524 | 0.42716104 |
| Zfp512 | 0.10374044  | 5.07894091 | 0.51824803 | 0.47995649 | 0.42716104 |
| Fam163a | 0.31822067  | 1.81468194 | 0.51801649 | 0.48003536 | 0.42720844 |
| Gene | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|------|--------|--------|--------|--------|--------|--------|
| Pdcd7 | -0.1534408 | 3.61848309 | 0.51790197 | 0.48010129 | 0.42721228 |
| Tmem159 | -0.1857929 | 4.62406698 | 0.51761591 | 0.48022105 | 0.42728003 |
| 320001D21 | 0.6007129 | 0.18461242 | 0.51742358 | 0.48030159 | 0.42731287 |
| Spata9 | 0.16300335 | 3.51825626 | 0.51718926 | 0.48039974 | 0.42736139 |
| P2ry1 | 0.16840561 | 4.02734054 | 0.51708472 | 0.48044355 | 0.42736154 |
| Nifk | -0.151077 | 4.61760274 | 0.51694122 | 0.48050369 | 0.42737623 |
| Gpr137b-ps | -0.1434701 | 3.63692507 | 0.51656023 | 0.48066342 | 0.42745588 |
| Rbfox1 | -0.1014525 | 9.25183504 | 0.51646534 | 0.48070321 | 0.42745588 |
| Cant1 | 0.17756763 | 3.30876225 | 0.51637641 | 0.48074052 | 0.42745588 |
| Cltc | 0.12241003 | 8.89667839 | 0.51631138 | 0.4807678 | 0.42745588 |
| Ncln | -0.2320093 | 2.44640941 | 0.51594688 | 0.48092076 | 0.42754902 |
| Lrcc2 | 0.11946535 | 4.49518742 | 0.51585375 | 0.48095985 | 0.42754902 |
| Map2k3os | 0.61213049 | -0.8604769 | 0.51547492 | 0.48111893 | 0.42759922 |
| Maff | -0.2123082 | 3.06441849 | 0.51544711 | 0.48113062 | 0.42759922 |
| Ripk2 | -0.153426 | 4.3644406 | 0.51504774 | 0.48114728 | 0.42759922 |
| Gm1673 | 0.37745813 | 0.4194867 | 0.51522921 | 0.48122216 | 0.42762697 |
| Scn2b | 0.11144492 | 6.88841078 | 0.51489206 | 0.48136387 | 0.42766297 |
| Mta2 | -0.1211403 | 4.80843552 | 0.5146268 | 0.4814754 | 0.42766297 |
| Phkb | 0.1184589 | 3.61319598 | 0.51450166 | 0.48152804 | 0.42766297 |
| 270009K13 | -0.2071403 | 3.19657688 | 0.51432179 | 0.48160371 | 0.42766297 |
| Plekh3 | 0.30301338 | 1.54505035 | 0.51428027 | 0.48162118 | 0.42766297 |
| Hps3 | 0.16898067 | 4.08700997 | 0.51420165 | 0.48165427 | 0.42766297 |
| Naa20 | 0.12891675 | 4.99462686 | 0.51418837 | 0.48165986 | 0.42766297 |
| 1110034G24 | -0.3011991 | 1.72551301 | 0.51415444 | 0.48167413 | 0.42766297 |
| Alx4 | 0.18690668 | 5.70558227 | 0.51410734 | 0.48169396 | 0.42766297 |
| Pmm1 | -0.122368 | 4.66168759 | 0.51401875 | 0.48173125 | 0.42766297 |
| St6galnac4 | -0.2245899 | 2.46563388 | 0.51394307 | 0.48176311 | 0.42766297 |
| Gm10825 | 0.93065422 | -1.3724712 | 0.51383052 | 0.4818105 | 0.42766297 |
| Nmt2 | -0.0870327 | 6.98586461 | 0.51369077 | 0.48186935 | 0.42766297 |
| Fzd5 | -0.2807633 | 2.67247355 | 0.51367993 | 0.48187391 | 0.42766297 |
| Cercam | -0.2320658 | 1.93764476 | 0.51323995 | 0.48205928 | 0.42775354 |
| Kat6a | -0.0795507 | 8.11258679 | 0.51316664 | 0.48209017 | 0.42775354 |
| Ccdd148 | -0.1353494 | 4.10954772 | 0.51312679 | 0.48210697 | 0.42775354 |
| Crebl2 | -0.1428177 | 5.09833326 | 0.51287229 | 0.48221426 | 0.42780999 |
| Gm609 | 0.92219081 | -1.8422175 | 0.51270341 | 0.48228549 | 0.42783442 |
| Blm | 0.27479555 | 2.1997472 | 0.51238265 | 0.48242081 | 0.42791571 |
| Glra3 | 0.32042686 | 1.20109565 | 0.51222315 | 0.48248812 | 0.42793667 |
| Psip1 | -0.0941038 | 8.79468226 | 0.51167491 | 0.48271961 | 0.42803716 |
| Scyl2 | 0.11926877 | 5.8534477 | 0.5115096 | 0.48278945 | 0.42803716 |
| Armcx4 | 0.11537759 | 6.06988026 | 0.51140974 | 0.48283165 | 0.42803716 |
| Cpsf4 | 0.23450517 | 1.62507283 | 0.51140823 | 0.48283229 | 0.42803716 |
| Rai2 | -0.174434 | 3.16794792 | 0.51138496 | 0.48284212 | 0.42803716 |
| Tjp1 | 0.08553778 | 9.48507631 | 0.51133411 | 0.48286361 | 0.42803716 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-------|---------|---------|---------|---------|---------|---------|
| Zfp26 | 0.11316633 | 6.27134914 | 0.51074917 | 0.48311094 | 0.42821765 |
| 4933427E11 | -1.0130668 | -1.2907902 | 0.5106171 | 0.48316681 | 0.42822843 |
| Thoc6 | -0.3201344 | 1.21006605 | 0.51019864 | 0.48334391 | 0.42834663 |
| Fam60a | 0.15337101 | 3.5921575 | 0.50985903 | 0.48348772 | 0.42842112 |
| 2700097O09 | -0.198411 | 2.8756526 | 0.50979361 | 0.48351543 | 0.42842112 |
| Trim34b | -0.506344 | -0.8356453 | 0.50919978 | 0.4837671 | 0.42860533 |
| Lhfpl1 | 0.70824249 | -0.7826807 | 0.50868117 | 0.48398706 | 0.42873858 |
| Mir3473f | 0.81873564 | -1.3801563 | 0.50855192 | 0.48404191 | 0.42873858 |
| Tfp11 | -0.181424 | 3.79497696 | 0.50853568 | 0.4840488 | 0.42873858 |
| Prpf38a | -0.1306931 | 4.10992073 | 0.5084055 | 0.48410406 | 0.42874875 |
| Rbm41 | -0.1326461 | 4.52288136 | 0.50820964 | 0.48418721 | 0.42873636 |
| Mettl24 | -0.4837355 | -0.0698367 | 0.50770631 | 0.48440101 | 0.42893419 |
| Bcas3 | -0.1313278 | 4.43762814 | 0.50743093 | 0.48451805 | 0.42899905 |
| 4930503L19f | 0.21178614 | 3.03546724 | 0.50720129 | 0.48461569 | 0.42904672 |
| Rala | -0.0781746 | 6.48951825 | 0.50681198 | 0.4847813 | 0.42915454 |
| Gpc2 | -0.5768059 | 0.06735224 | 0.50612395 | 0.48507421 | 0.42937504 |
| Gm14169 | -0.2354475 | 1.90935333 | 0.50587827 | 0.48517887 | 0.42942887 |
| Pola2 | 0.23342435 | 1.80786801 | 0.50569706 | 0.4852561 | 0.42945515 |
| Cbr2 | -0.3305079 | 1.3138646 | 0.50541007 | 0.48537844 | 0.42945515 |
| Sox30 | -0.7135599 | -1.0289941 | 0.5053234 | 0.48541545 | 0.42945515 |
| Gm16515 | -0.1857559 | 5.5106867 | 0.50519498 | 0.48547017 | 0.42945515 |
| Zfp389 | -0.8474051 | -1.5357067 | 0.5051762 | 0.48547818 | 0.42945515 |
| Armcl8 | 0.09412553 | 7.05120599 | 0.50515472 | 0.48548734 | 0.42945515 |
| Crip3 | -1.1883271 | -1.9973046 | 0.50508882 | 0.48551545 | 0.42945515 |
| Gpr27 | 0.68263978 | -1.2313857 | 0.5040059 | 0.48597781 | 0.42979495 |
| B930018H19 | -0.9417574 | -0.9073337 | 0.50398353 | 0.48598737 | 0.42979495 |
| Haus4 | 0.28563148 | 1.58054984 | 0.50330712 | 0.48627655 | 0.42996941 |
| Ube2d2a | 0.10459269 | 9.04656971 | 0.50321766 | 0.48631482 | 0.42996941 |
| Creb3 | 0.22381129 | 3.08932762 | 0.50321414 | 0.48631633 | 0.42996941 |
| Vwc2 | 0.19032608 | 3.14969717 | 0.50205236 | 0.48681378 | 0.43035077 |
| 1700029J07f | 0.22538791 | 2.15905679 | 0.50200162 | 0.48683552 | 0.43035077 |
| Prss48 | 0.72767677 | -0.1717178 | 0.50138031 | 0.48710194 | 0.43051232 |
| 5530601H04 | -0.1733398 | 3.42913105 | 0.50137041 | 0.48710619 | 0.43051232 |
| Sumf1 | 0.15058563 | 5.03265388 | 0.50116498 | 0.48719433 | 0.4305137 |
| Eml3 | 0.21054314 | 2.79223939 | 0.5008224 | 0.48734138 | 0.43063691 |
| Timd4 | 1.22645634 | -2.1091428 | 0.50073468 | 0.4873904 | 0.43063691 |
| Cdhr3 | 0.67567723 | -0.2814062 | 0.50052128 | 0.48747069 | 0.43067068 |
| Gm4961 | 0.73141799 | -1.7273926 | 0.50022987 | 0.4875959 | 0.43067068 |
| Sms | -0.0844159 | 7.09061847 | 0.50021112 | 0.48760396 | 0.43067068 |
| BC02723 | 0.15437938 | 3.97245081 | 0.50015664 | 0.48762737 | 0.43067068 |
| Tep112 | 0.10900016 | 4.28628694 | 0.50013402 | 0.48763709 | 0.43067068 |
| Mthfd2l | -0.2789282 | 2.19025458 | 0.49959243 | 0.48786996 | 0.43081818 |
| Gab1 | -0.0920629 | 7.04320334 | 0.49954103 | 0.48789207 | 0.43081818 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  | Value11  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cuedc1 | -0.195758| 2.60927741| 0.49934443| 0.48797666| 0.43083776|
| Agbl4  | -0.2854928| 2.42252129| 0.49928505| 0.48800221| 0.43083776|
| Eif2b1 | 0.15243132| 4.79094889| 0.49894741| 0.48814753| 0.43089506|
| Ms4a4c | -0.9721666| -1.6384002| 0.49892989| 0.4881551| 0.43089506|
| Nme4   | 0.57085986| 0.20736977| 0.49872444| 0.48824358| 0.43092211|
| Phf12  | 0.08265448| 6.74279914| 0.49862066| 0.48828828| 0.43092211|
| AA387883| 0.44389356| 0.28824158| 0.49850364| 0.4883387| 0.43092211|
| Triqk  | -0.1901753| 3.52130228| 0.49833678| 0.4884106| 0.43092211|
| B130006D01| 0.79017942| 0.52011361| 0.49827896| 0.48843552| 0.43092211|
| Il1f9  | 0.25373442| 2.29455078| 0.49824606| 0.4884497| 0.43092211|
| Micalcl| -0.2893535| 1.66296183| 0.49779| 0.48864634| 0.43102042|
| Usp3   | -0.1150888| 4.04294891| 0.49778353| 0.48864913| 0.43102042|
| Ing5   | 0.1383654| 4.683819| 0.49763192| 0.48871453| 0.43103929|
| Cct7   | -0.1074711| 6.67429444| 0.49739109| 0.48881846| 0.43109213|
| Crtc3  | -0.1271386| 4.93875182| 0.49711227| 0.48893882| 0.43115946|
| Runx1t1| -0.0915292| 7.80809386| 0.49680891| 0.48906983| 0.43123617|
| Myh9   | -0.0979344| 6.86419916| 0.4963823| 0.48925417| 0.43132715|
| Nudt13 | 0.17594758| 2.66711577| 0.49636632| 0.48926108| 0.43132715|
| Gadd45a| -0.1584845| 4.16244323| 0.49603566| 0.48940405| 0.43141436|
| Td rh  | 0.1537164| 4.42683345| 0.49584468| 0.48948666| 0.43148436|
| Loxl4  | -0.7102795| -1.1594294| 0.49540432| 0.48967722| 0.43157749|
| Dhx29  | 0.17045307| 4.80532999| 0.49493035| 0.48988247| 0.43171954|
| Pw p1  | 0.15369745| 4.19205255| 0.49480971| 0.48993474| 0.43172677|
| Nefm   | 0.1572844| 9.24354979| 0.4946051| 0.49002341| 0.43174935|
| Vstm4  | -0.2036355| 4.68068533| 0.49454715| 0.49004853| 0.43174935|
| Ip o7  | 0.11088628| 5.83228562| 0.49426021| 0.49017293| 0.43175427|
| Ythdf1 | 0.07295475| 6.7367696| 0.49424496| 0.49017955| 0.43175427|
| Vstm2l | 0.39652533| -0.1881095| 0.4942293| 0.49018634| 0.43175427|
| Cccr4l | 0.10821299| 5.44062537| 0.49410019| 0.49024234| 0.43175777|
| Gm5796 | -0.5063149| -0.9775086| 0.4938335| 0.49035804| 0.43175777|
| D630032N06| 0.90263957| -0.9869433| 0.49380399| 0.49037084| 0.43175777|
| Usp10  | 0.1141735| 5.20254236| 0.493789| 0.49037735| 0.43175777|
| Marcks | 0.11627277| 9.44935108| 0.49361911| 0.49045108| 0.43175777|
| Mrto4  | -0.1753072| 3.32261323| 0.49361057| 0.49045479| 0.43175777|
| Tstd2  | 0.18234745| 2.78070103| 0.49322782| 0.49062098| 0.43186527|
| Arhgap23| 0.12968368| 5.68416057| 0.49285173| 0.49078438| 0.43197027|
| Prr12  | 0.11026693| 5.7528392| 0.49237151| 0.49099315| 0.43202374|
| Impa1  | -0.0929117| 5.28422292| 0.49231377| 0.49101827| 0.43202374|
| Rs po3 | -0.2045674| 7.1031934| 0.49224701| 0.4910473| 0.43202374|
| Eps15l1| 0.10483972| 5.75893508| 0.49223908| 0.49105075| 0.43202374|
| Pcdha8 | 0.55897545| 0.18925913| 0.49209332| 0.49111416| 0.43202374|
| Dusp4  | -0.3580612| 1.31826327| 0.4920462| 0.49113466| 0.43202374|
| Ddx23  | -0.1034697| 5.43142983| 0.49200209| 0.49115386| 0.43202374|
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 | Value 15 | Value 16 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Rs1    | 0.09887966 | 4.79496528 | 0.48372973 | 0.4947765 | 0.43347003 |
| Ano7   | -0.7118264 | -1.3843268 | 0.48370029 | 0.49478947 | 0.43347003 |
| Eda2r  | 0.6699077 | 0.18129697 | 0.48349171 | 0.49488142 | 0.43351181 |
| Sf3b2  | -0.102733 | 6.8265091 | 0.48324633 | 0.4949862 | 0.43356782 |
| Ptbp1  | -0.157512 | 6.00333761 | 0.48284079 | 0.49516854 | 0.43363861 |
| Zfp942 | 0.14395643 | 3.51107222 | 0.48282263 | 0.49517655 | 0.43363861 |
| Mkx    | 0.1443937 | 5.3746159 | 0.48276214 | 0.49520325 | 0.43363861 |
| Rab6b  | -0.0847306 | 10.4152573 | 0.4825078 | 0.49531554 | 0.43369817 |
| Cln6   | -0.1430062 | 3.55535968 | 0.48209689 | 0.49549703 | 0.43381373 |
| Topors | 0.08962526 | 6.03630215 | 0.48199618 | 0.49554153 | 0.43381373 |
| Atg7   | -0.1414523 | 6.32718181 | 0.48190827 | 0.49558038 | 0.43381373 |
| Ccd110 | -0.5793415 | 0.36733429 | 0.48163685 | 0.49570036 | 0.43384255 |
| Mtfp1  | -0.150662 | 4.76527358 | 0.4816334 | 0.49570189 | 0.43384255 |
| Arhgap9| -0.4988212 | 9.5300811 | 0.48115281 | 0.49591446 | 0.43393973 |
| F5     | 0.26200862 | 2.6508564 | 0.48114498 | 0.49591793 | 0.43393973 |
| Nedd9  | -0.1057634 | 4.36676939 | 0.48107984 | 0.49594675 | 0.43393973 |
| 4930473A02 | 0.42155435 | 0.53604873 | 0.48098184 | 0.49599012 | 0.43393973 |
| Hps4   | -0.210014 | 2.44925576 | 0.4807727 | 0.4960827 | 0.43398196 |
| Ubd2   | -0.1094928 | 5.27685835 | 0.48061598 | 0.4961521 | 0.43400391 |
| Heatr9 | 0.97189599 | -1.4993693 | 0.4802295 | 0.49632323 | 0.43404524 |
| Slc1a5 | -0.2334336 | 2.10216484 | 0.48014909 | 0.49635893 | 0.43404524 |
| Abcf1  | -0.0873313 | 6.76225071 | 0.48007855 | 0.4963902 | 0.43404524 |
| Nexn   | 0.14897356 | 5.68358116 | 0.47999023 | 0.49642935 | 0.43404524 |
| 9530027J09F | 1.06481539 | -0.9858513 | 0.47972672 | 0.49654618 | 0.43404524 |
| LOC171588 | -1.0849757 | -1.1518178 | 0.48288855 | 0.49655528 | 0.43404524 |
| Wars2  | 0.18762463 | 3.67473032 | 0.47965282 | 0.49657895 | 0.43404524 |
| Rhot2  | -0.1264638 | 5.09631847 | 0.47947349 | 0.4966585 | 0.43404524 |
| Kbtbd4 | -0.1190657 | 4.48817103 | 0.47938497 | 0.49669777 | 0.43404524 |
| Eif3l  | -0.1011004 | 5.5720538 | 0.4793443 | 0.49671582 | 0.43404524 |
| Ninl   | -0.1779134 | 3.10125781 | 0.47931215 | 0.49673008 | 0.43404524 |
| Tctn1  | -0.3434908 | 2.90632425 | 0.47930053 | 0.49673524 | 0.43404524 |
| Med28  | -0.1437911 | 5.31342009 | 0.47913238 | 0.49680987 | 0.43404524 |
| Ddo    | -0.1958775 | 3.49965367 | 0.47899883 | 0.49686915 | 0.43404524 |
| Lrrc14b| -0.2009331 | 2.80334172 | 0.47890892 | 0.49690907 | 0.43404524 |
| Nr1i3  | -0.7009874 | -1.1087511 | 0.4787818 | 0.49696552 | 0.43404524 |
| Mettl25 | 0.24098393 | 2.64327942 | 0.4787301 | 0.49698848 | 0.43404524 |
| Cerk   | 0.14851057 | 4.07824315 | 0.47871102 | 0.49699696 | 0.43404524 |
| U2af2  | -0.1631227 | 4.69481803 | 0.47845062 | 0.49711264 | 0.43407231 |
| Adcyap1 | 0.17470011 | 2.9020933 | 0.47838803 | 0.49714045 | 0.43407231 |
| Fem1a  | -0.0950602 | 5.55688316 | 0.47834204 | 0.49716089 | 0.43407231 |
| Ccl9   | 0.23415921 | 1.82352796 | 0.4775384 | 0.49751826 | 0.43434562 |
| Elov1  | 0.15850259 | 4.81666935 | 0.47711507 | 0.4977067 | 0.43447141 |
| Kpna3  | 0.09369811 | 7.16999286 | 0.47551016 | 0.49842222 | 0.43505724 |
| Gene | Frmpd1os | Strn3 | Zfp747 | Fbds | Ficd | Gpr158 | Ccdd50 | Eif2ak3 | Pacrg | Rtn3 | Lingo1 | Fadd | Rnf20 | Fam222b | Plcl2 | Sphk1 | Usp48 | Plat | Rgs20 | Ap5b1 | Zfp112 | Ndn | Ttr | Metap2 | Gm6225 | Traf3ip2 | Gimap5 | Fbxo4 | Lrc1 | 1700084C011 | Rsph3a | Maged1 | Ndufa1 | Dlx2 | Npy2r | A230070E04 | Mamdc2 | Exoc3 | Ssr4 | Fsbp | Gm5431 | Trim37 | Taf6l |
|------|----------|-------|--------|------|------|--------|--------|---------|-------|------|-------|------|------|---------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|
|      | -0.7988926 | -1.7054424 | 0.47528743 | 0.49851266 | 0.43510527 | 0.08079486 | 8.17349927 | 0.47507588 | 0.49861614 | 0.43514896 | -0.1290284 | 3.70442029 | 0.47462915 | 0.49881576 | 0.43519066 | -0.1151438 | 4.54391855 | 0.47459 | 0.49883326 | 0.43519066 | -0.1806494 | 2.89199918 | 0.47458348 | 0.49883617 | 0.43519066 | 0.11436526 | 8.18522937 | 0.47455803 | 0.49884755 | 0.43519066 | -0.1012956 | 7.37499426 | 0.47447188 | 0.49888607 | 0.43519066 | 0.1745396 | 3.26880954 | 0.47418425 | 0.4990147 | 0.43522636 | 0.19647733 | 2.80278156 | 0.47418167 | 0.49901585 | 0.43522636 | 0.0995272 | 9.97579174 | 0.47381396 | 0.49918038 | 0.43524761 | 0.09052815 | 7.59023862 | 0.47380709 | 0.49918346 | 0.43524761 | -0.1405386 | 4.30094282 | 0.47378136 | 0.49919497 | 0.43524761 | 0.09499232 | 6.44450563 | 0.47373001 | 0.49921796 | 0.43524761 | -0.081782 | 6.75289279 | 0.47338917 | 0.49937057 | 0.43530906 | 0.13902476 | 5.54410284 | 0.47337411 | 0.49937732 | 0.43530906 | -0.2362392 | 4.58508224 | 0.47272204 | 0.49966952 | 0.43550463 | 0.15379887 | 5.49429636 | 0.4724803 | 0.49977792 | 0.43550463 | 0.19449523 | 4.7598382 | 0.47246233 | 0.49978598 | 0.43550463 | 0.14724909 | 5.70952215 | 0.47231695 | 0.49985112 | 0.43550463 | -0.530895 | -0.0106222 | 0.47229126 | 0.49986272 | 0.43550463 | -0.252786 | 2.14004169 | 0.47227851 | 0.49986844 | 0.43550463 | 0.12184939 | 6.22948305 | 0.47197029 | 0.50000676 | 0.4355864 | -0.2684196 | 5.00354118 | 0.47179675 | 0.50008467 | 0.43561553 | -0.0784216 | 7.30909815 | 0.47137484 | 0.50027416 | 0.43574185 | 0.69252291 | -1.1707404 | 0.47125471 | 0.50032815 | 0.43574274 | -0.1887596 | 2.99233899 | 0.47117457 | 0.50036416 | 0.43574274 | -0.4316422 | 1.56612691 | 0.47102744 | 0.50043029 | 0.43576159 | -0.2171624 | 3.73373503 | 0.47087743 | 0.50049773 | 0.43578158 | 0.16114876 | 4.36593242 | 0.47025619 | 0.50077721 | 0.43598616 | -0.250242 | 1.65505672 | 0.46997241 | 0.50090496 | 0.43602344 | -0.1164544 | 4.43966848 | 0.46993683 | 0.50092098 | 0.43602344 | 0.0807963 | 8.26477941 | 0.46986448 | 0.50095357 | 0.43602344 | -0.1870565 | 3.33368147 | 0.46948601 | 0.50112407 | 0.43613309 | 0.27172647 | 0.88539876 | 0.46931958 | 0.50119908 | 0.43615961 | -0.1995559 | 2.84536466 | 0.46877523 | 0.50144455 | 0.43633447 | -0.1514974 | 4.56051307 | 0.46810266 | 0.50174813 | 0.43644964 | 0.47996301 | 0.03578776 | 0.46810203 | 0.50174841 | 0.43644964 | 0.0949276 | 6.57584827 | 0.46800776 | 0.50179099 | 0.43644964 | -0.1433007 | 3.42232035 | 0.46796135 | 0.50181196 | 0.43644964 | -0.7830912 | -1.8040217 | 0.46790157 | 0.50183896 | 0.43644964 | 0.33917591 | 0.93549401 | 0.46781247 | 0.50187922 | 0.43644964 | -0.1081096 | 8.21341836 | 0.46779126 | 0.5018888 | 0.43644964 | 0.33681502 | 0.66481131 | 0.46708673 | 0.50220731 | 0.43668785 |
| Gene    | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|---------|---------|---------|---------|---------|---------|---------|
| Supt5   | 0.11924046 | 5.64203307 | 0.466826  | 0.50232528  | 0.43675165  |
| BC068281 | -0.1721249  | 2.29279265  | 0.46670677  | 0.50237924  | 0.43675981  |
| Pigyl   | -0.3155891  | 3.02094125  | 0.46581395  | 0.50278363  | 0.43707258  |
| Tpmt    | -0.1712662  | 3.69758478  | 0.46540936  | 0.50296707  | 0.43719325  |
| 4930447A16 | 1.00085157  | -1.7228355  | 0.46581395  | 0.50319345  | 0.43731241  |
| Igf2bp1 | -0.9796458  | -1.5499557  | 0.46491043  | 0.50319345  | 0.43731241  |
| Mpv17l2 | -0.2369887  | 2.69491878  | 0.46481008  | 0.503239  | 0.4373132  |
| Tmem100 | -0.1315397  | 3.5969053  | 0.46444332  | 0.50340556  | 0.43741913  |
| Tesk2   | 0.199699  | 2.09730237  | 0.46411704  | 0.5035538  | 0.43745903  |
| Rpusd2  | -0.1217067  | 4.33296508  | 0.46411704  | 0.5035538  | 0.43745903  |
| Rap2c   | -0.0753024  | 6.85442395  | 0.46403603  | 0.50359062  | 0.43745903  |
| Snap29  | -0.0998156  | 6.39853214  | 0.46381073  | 0.50366632  | 0.43745903  |
| Lynx1   | -0.0973177  | 7.54082893  | 0.46385092  | 0.50367478  | 0.43745903  |
| Klhl33  | 0.94495243  | -1.944118  | 0.46324559  | 0.50395014  | 0.43762458  |
| Vps35   | 0.08119151  | 6.730399  | 0.46323549  | 0.50395474  | 0.43762458  |
| Il10rb  | -0.1834132  | 3.04627877  | 0.46240173  | 0.50433034  | 0.43791193  |
| Def6    | -0.3642493  | 0.86126945  | 0.46229513  | 0.50438303  | 0.43791886  |
| Supt20  | 0.11332832  | 4.95552167  | 0.46171641  | 0.50464693  | 0.43810915  |
| Cgn     | 0.21817357  | 2.17936625  | 0.46132639  | 0.50482493  | 0.43820311  |
| Tnfrsf21| 0.13494681  | 6.54315861  | 0.46128321  | 0.50484464  | 0.43820311  |
| Fndc3a  | 0.08803493  | 8.08988479  | 0.4610887  | 0.50493345  | 0.43824137  |
| Cep63   | -0.1382296  | 5.47835818  | 0.46088404  | 0.50502693  | 0.43828367  |
| Dgcr2   | -0.0959315  | 4.64335063  | 0.46039668  | 0.50524966  | 0.43843812  |
| Abhd6   | 0.12753802  | 4.18091732  | 0.46024047  | 0.50532109  | 0.43844895  |
| Epb4.1l3| 0.09020389  | 7.79596914  | 0.46006752  | 0.50540019  | 0.43844895  |
| G630090E17 | 1.19076738 | -1.1328509 | 0.45989856 | 0.50547749 | 0.43844895 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 | Value 15 | Value 16 | Value 17 | Value 18 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Gpn2   | -0.2312234 | 1.66041057 | 0.45764638 | 0.50659083 | 0.43868309 |
| Fbxl6  | 0.3264643 | 0.94416263 | 0.45763027 | 0.50651723 | 0.43868309 |
| Ccsr1  | 0.21152896 | 3.31125484 | 0.45705283 | 0.50678252 | 0.43884828 |
| Pnkp   | 0.22402268 | 1.65228763 | 0.45702009 | 0.50679757 | 0.43884828 |
| Pygm   | -0.2049325 | 3.78732599 | 0.45675308 | 0.50692034 | 0.43891579 |
| 2500004C21 | 0.14351201 | 3.8040238 | 0.45593295 | 0.50729774 | 0.43920374 |
| Ifi205  | -0.5917817 | -1.2619821 | 0.45567459 | 0.50741673 | 0.43926793 |
| Helz2   | -0.3226994 | 1.98281562 | 0.45477231 | 0.50783268 | 0.43958327 |
| Opalin  | 0.30383967 | 1.45829791 | 0.45462891 | 0.50789884 | 0.43958327 |
| Phtf1os | -0.2503483 | 1.14798045 | 0.45459255 | 0.50791562 | 0.43958327 |
| Dbp     | -0.1797753 | 4.08973715 | 0.45442413 | 0.50799335 | 0.4396117 |
| Fam101b | 0.13346233 | 4.20018008 | 0.4541839 | 0.50810426 | 0.43966884 |
| Ms2     | -0.1117704 | 9.31989194 | 0.45403352 | 0.50817371 | 0.43969009 |
| Cct8    | 0.08314948 | 6.86970819 | 0.45387959 | 0.50824482 | 0.43970239 |
| Adrb3   | 0.53684274 | -0.894653 | 0.45380842 | 0.5082777 | 0.43970239 |
| Slc10a7 | -0.1351732 | 3.06877639 | 0.45352467 | 0.50840884 | 0.4397639 |
| Klf9    | -0.0927743 | 8.08354523 | 0.45346029 | 0.5084386 | 0.4397639 |
| Dio3    | -0.6051696 | -0.9980248 | 0.45330331 | 0.50851119 | 0.43977113 |
| Upp2    | -0.15683573 | 3.82820111 | 0.45310736 | 0.50860181 | 0.43977113 |
| Rpl28   | -0.1703793 | 5.33779006 | 0.45299971 | 0.50865161 | 0.43977113 |
| Golt1b  | -0.1152536 | 5.46758268 | 0.45291824 | 0.50868931 | 0.43977113 |
| Tusc1   | 0.13807014 | 3.18417392 | 0.45277604 | 0.50875511 | 0.43977113 |
| Gm13483 | 0.49879671 | -0.7401471 | 0.45270787 | 0.50878667 | 0.43977113 |
| E030011O05 | 0.60845751 | -0.8651926 | 0.45260561 | 0.508834 | 0.43977113 |
| Pdgfrl  | 0.25553365 | 2.57959627 | 0.45259764 | 0.50883769 | 0.43977113 |
| Map2k4  | 0.09261869 | 7.68792526 | 0.45255608 | 0.50885694 | 0.43977113 |
| Ccr5    | -0.3381493 | 1.19262425 | 0.45247189 | 0.50889592 | 0.43977113 |
| Kif5a   | 0.10741409 | 9.49887627 | 0.45227728 | 0.50898605 | 0.43977887 |
| Slc35c1 | 0.15595804 | 3.33152428 | 0.45225866 | 0.50899467 | 0.43977887 |
| Trim2   | 0.10233658 | 9.04551566 | 0.45129006 | 0.50944369 | 0.44010509 |
| Rqcd1   | -0.1167741 | 4.95419579 | 0.4512504 | 0.50946209 | 0.44010509 |
| Tmed5   | 0.12666586 | 5.54968377 | 0.45106792 | 0.50954677 | 0.44013943 |
| Ift74   | -0.0905869 | 5.84316581 | 0.45051599 | 0.50980304 | 0.44032196 |
| Acr2    | 0.0723829 | 8.88066286 | 0.45030958 | 0.50989893 | 0.44036595 |
| Aff3    | -0.0948259 | 7.61446663 | 0.45003786 | 0.51002522 | 0.44043619 |
| Fam133b | 0.09269283 | 5.13952641 | 0.44990635 | 0.51008637 | 0.44044144 |
| Admats18 | 0.40640897 | 0.25730253 | 0.44983138 | 0.51012123 | 0.44044144 |
| Brix1   | -0.10607 | 4.72605738 | 0.44957924 | 0.51023851 | 0.44048226 |
| Mtrf1   | -0.1511783 | 3.13216346 | 0.4495364 | 0.51025844 | 0.44048226 |
| Fa2h    | 0.17763767 | 4.01003315 | 0.44931812 | 0.51036002 | 0.44053112 |
| Ccde1   | -0.4475295 | -0.1982129 | 0.44920595 | 0.51041223 | 0.44053737 |
| Sema4c  | -0.3491 | 0.62827725 | 0.4485885 | 0.5106998 | 0.44070791 |
| Gene     | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Epdr1    | 0.11098554 | 5.86306948 | 0.44813066 | 0.51091323 | 0.44078126 |
| Tgfa     | 0.08667261 | 5.15283698 | 0.44811906 | 0.51091864 | 0.44078126 |
| Uba7     | -0.3774138 | 0.63843414 | 0.44811655 | 0.51091981 | 0.44078126 |
| Cables1  | -0.1679886 | 3.13166928 | 0.44766254 | 0.51113161 | 0.4409103 |
| 5830444B04 | 0.3254813 | 1.32362467 | 0.44760298 | 0.51115941 | 0.4409103 |
| Kansl2   | -0.093036  | 4.72657534 | 0.44732746 | 0.51128803 | 0.44096499 |
| Id1      | -0.2313028 | 3.82219196 | 0.44727433 | 0.51131284 | 0.44096499 |
| Pcmt1d   | 0.07908254 | 8.28762032 | 0.44708591 | 0.51140084 | 0.44100205 |
| Arhgef4  | 0.11923428 | 5.08822958 | 0.44695316 | 0.51146286 | 0.44101671 |
| Ifngr2   | -0.1236893 | 5.14388699 | 0.44658147 | 0.51163658 | 0.44109183 |
| Smad3    | 0.09582443 | 6.75745112 | 0.44657404 | 0.51164005 | 0.44109183 |
| 1110059G10 | -0.1501092 | 4.20899495 | 0.44528733 | 0.51224223 | 0.44157213 |
| Idh3g    | 0.08602137 | 6.41635125 | 0.44457113 | 0.51257797 | 0.44178589 |
| Fxr1     | -0.0827465 | 6.88681768 | 0.44445853 | 0.51263079 | 0.44178589 |
| Ocln     | -0.2054885 | 2.73975676 | 0.44444173 | 0.51263867 | 0.44178589 |
| Wdr76    | 0.2002658  | 2.1984456  | 0.44437363 | 0.51267062 | 0.44178589 |
| Crym     | 0.12526666 | 3.43461405 | 0.44416048 | 0.51277065 | 0.44182553 |
| Ndfn     | 0.10431762 | 5.19802815 | 0.44408144 | 0.51280775 | 0.44182553 |
| Clec18a  | 0.51932557 | 0.16717546 | 0.44398732 | 0.51285194 | 0.44182553 |
| Mir568   | 0.18045665 | 2.11864824 | 0.44352989 | 0.51306678 | 0.44197175 |
| Gm10354  | -0.9301254 | -2.0395813 | 0.44296976 | 0.51333008 | 0.44214513 |
| Prdm2    | -0.0936165 | 7.02812682 | 0.44290969 | 0.51335833 | 0.44214513 |
| Parp14   | -0.1753058 | 4.15536348 | 0.44259029 | 0.51350859 | 0.44219931 |
| Lrf1     | 0.1241321  | 5.127569  | 0.44258405 | 0.51351153 | 0.44219931 |
| Agbl5    | 0.1731843  | 2.76543721 | 0.44225918 | 0.51366445 | 0.44229212 |
| Myh7     | -0.1928113 | 2.56956059 | 0.44204493 | 0.51376534 | 0.44232911 |
| Khlh7c7a | 0.22445956 | 2.71863597 | 0.44194602 | 0.51381193 | 0.44232911 |
| Fhod1    | 0.2236463  | 2.36053804 | 0.44188031 | 0.51384289 | 0.44232911 |
| Thop1    | -0.1996125 | 2.56012789 | 0.44137038 | 0.51408323 | 0.44249712 |
| Klfl4    | 0.57874531 | 0.34924461 | 0.44123749 | 0.51414589 | 0.44251217 |
| Rad51ap1 | 0.61284216 | -0.3231284 | 0.44049684 | 0.51449542 | 0.44277409 |
| Coa7     | -0.2116198 | 2.48376687 | 0.44016719 | 0.51465112 | 0.44286918 |
| Necab2   | -0.1466181 | 3.43692255 | 0.43974845 | 0.51484902 | 0.44292695 |
| Ect2     | -0.6818141 | -0.849832 | 0.43973508 | 0.51485534 | 0.44292695 |
| Crnkl1   | 0.11241025 | 4.56709497 | 0.4397315  | 0.51485704 | 0.44292695 |
| Tmem116  | -0.3853089 | -0.0018565 | 0.43954013 | 0.51494753 | 0.44296859 |
| 2410127L17f | -0.1396416 | 4.94433774 | 0.43915457 | 0.51512994 | 0.44308659 |
| Exoc3l4  | 0.5691436  | -0.9109404 | 0.43898306 | 0.51521112 | 0.4431175 |
| Atg2a    | 0.16968047 | 3.99208014 | 0.43880927 | 0.51529343 | 0.44314936 |
| Gm8300   | -0.5088704 | -0.6615759 | 0.4386426 | 0.51537233 | 0.44317833 |
| Pp2d1    | 0.32719495 | 0.70436595 | 0.43844031 | 0.51546816 | 0.44320174 |
| Thumpd3  | 0.1090136 | 4.77480916 | 0.43838404 | 0.51549482 | 0.44320174 |
| Cadm4    | 0.18345486 | 3.23482238 | 0.43827969 | 0.51554427 | 0.44320174 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|--------|--------|--------|--------|--------|--------|--------|
| Smarcc1| 0.06804276 | 7.39862034 | 0.43808268 | 0.51563766 | 0.44320174 |
| 0610007P141| -0.1318079 | 4.25240262 | 0.43797803 | 0.51568728 | 0.44320174 |
| Emid1| -0.3458602 | 0.7803174 | 0.43787327 | 0.51573695 | 0.44320174 |
| Map3k11| -0.1466434 | 3.78564312 | 0.43787273 | 0.51573721 | 0.44320174 |
| Ppp2r2a| 0.07660018 | 7.10196112 | 0.43776056 | 0.51579041 | 0.44320174 |
| Vps37c| -0.1830003 | 3.47069224 | 0.43772609 | 0.51580676 | 0.44320174 |
| Mettl23| 0.18722855 | 2.83220101 | 0.43756135 | 0.51588492 | 0.44321394 |
| Det1| -0.2310851 | 1.32187188 | 0.43747671 | 0.51592508 | 0.44321394 |
| Cetn4| 0.17390851 | 4.02178654 | 0.43741007 | 0.51595671 | 0.44321394 |
| Egr4| 0.22063741 | 3.23099371 | 0.43710368 | 0.51610216 | 0.44330001 |
| A930006K02| -0.3581241 | 0.2417027 | 0.43688564 | 0.51620572 | 0.44335009 |
| Foxc2| -0.2014751 | 6.72668038 | 0.43664983 | 0.51631776 | 0.44340744 |
| 1600012H06| -0.1378813 | 4.59940473 | 0.43625232 | 0.51650672 | 0.44350383 |
| Zfp474| -0.9028099 | 1.4850592 | 0.43609996 | 0.51657919 | 0.44355417 |
| Adarb1| 0.10919729 | 6.5564066 | 0.43581881 | 0.51671294 | 0.44362158 |
| Tob1| 0.09266185 | 6.21399761 | 0.43574456 | 0.51674828 | 0.44362158 |
| Fam174b| -0.1644903 | 6.56798464 | 0.43561162 | 0.51681155 | 0.44363702 |
| Nmnat2| 0.08992389 | 7.15343766 | 0.43517451 | 0.51701971 | 0.44374208 |
| Tlr5| -0.6771679 | -1.2240123 | 0.43493357 | 0.51713451 | 0.44374208 |
| Tsacc| 0.526419 | 0.05827724 | 0.43491988 | 0.51714104 | 0.44374208 |
| Arl6ip5| 0.11426601 | 3.89534564 | 0.43491387 | 0.5171439 | 0.44374208 |
| Sart1| 0.11580781 | 4.71131357 | 0.43487917 | 0.51716044 | 0.44374208 |
| Ntsr1| 0.27773315 | 1.74796493 | 0.43468653 | 0.51725227 | 0.44375034 |
| Hspg2| 0.12693218 | 3.48405132 | 0.43466891 | 0.51726067 | 0.44375034 |
| Zfp3| -0.1642776 | 3.98973026 | 0.43439124 | 0.51739309 | 0.44376866 |
| Rxb| -0.158015 | 3.23806349 | 0.43436017 | 0.51740791 | 0.44376866 |
| Bin1| -0.1135479 | 5.36717275 | 0.43431165 | 0.51743106 | 0.44376866 |
| Ccdc184| -0.1396555 | 3.20706414 | 0.43424418 | 0.51746325 | 0.44376866 |
| Tgoln1| 0.10658654 | 6.81995248 | 0.43391391 | 0.51762086 | 0.44386497 |
| BC068157| 0.14845292 | 5.92522908 | 0.4337921 | 0.51767902 | 0.44387598 |
| Camkk2| -0.1308002 | 6.00634976 | 0.433252 | 0.51793702 | 0.44402063 |
| Sstr2| -0.1829932 | 2.75647597 | 0.43324917 | 0.51793837 | 0.44402063 |
| Ctdspl| -0.1148003 | 6.4620004 | 0.43312003 | 0.5180001 | 0.44402833 |
| 1700110C191| 0.56968041 | -0.1240952 | 0.43304069 | 0.51803803 | 0.44402833 |
| Stat5a| -0.3364789 | 1.7590182 | 0.43281452 | 0.51814617 | 0.44408217 |
| Zbbox| 0.5588477 | -0.6191186 | 0.43258124 | 0.51825776 | 0.44413895 |
| Zfpl438| 0.12251947 | 3.94995783 | 0.43243898 | 0.51832584 | 0.44415843 |
| Gpr37| 0.16612724 | 3.7003291 | 0.43233502 | 0.51837559 | 0.4441622 |
| Lrrc2| 0.27155092 | 1.76997162 | 0.43187236 | 0.51859712 | 0.44427298 |
| Ebf4| 0.40815664 | 1.13461649 | 0.43177479 | 0.51864386 | 0.44427298 |
| 311008217R| 0.20976359 | 2.68629787 | 0.43170996 | 0.51867493 | 0.44427298 |
| Scyl1| -0.1048866 | 4.19231876 | 0.43168624 | 0.51868629 | 0.44427298 |
| Plin2| -0.247499 | 3.42219361 | 0.43154726 | 0.51875289 | 0.44428639 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ift57  | 0.07885143 | 5.92742361 | 0.43146428 | 0.51879266 | 0.44428639 |
| Mmp17  | -0.1205848 | 5.60588234 | 0.43130419 | 0.51886941 | 0.44431327 |
| Foxj3  | -0.1004452 | 7.73374767 | 0.4311655 | 0.51893591 | 0.44432562 |
| 9430015G10 | 0.22792897 | 2.45774709 | 0.43102682 | 0.51900243 | 0.44432562 |
| Pus7   | 0.1356293 | 3.84631136 | 0.43094232 | 0.51904297 | 0.44432562 |
| Gdpd5  | -0.1362418 | 3.75002037 | 0.43089582 | 0.51906527 | 0.44432562 |
| Adrb1  | 0.18173401 | 3.6706366 | 0.43027911 | 0.51936132 | 0.44454019 |
| Cnc5   | 0.45890155 | 0.48233608 | 0.42988223 | 0.519552 | 0.44462753 |
| Sh3bp1 | -0.1615391 | 3.23093993 | 0.42987777 | 0.51955415 | 0.44462753 |
| Grin3b  | -0.77545 | -1.7901405 | 0.42962455 | 0.51967587 | 0.44469285 |
| Fbno3  | 0.07620959 | 6.50548621 | 0.42946176 | 0.51975415 | 0.44472098 |
| Mfap4  | -0.2305646 | 3.76607458 | 0.42928056 | 0.51984132 | 0.44475672 |
| Nanos2 | 1.05096327 | -2.2041108 | 0.42857983 | 0.52017863 | 0.44498842 |
| Rhoh   | -0.4033583 | -0.0962766 | 0.42848 | 0.52022672 | 0.44498842 |
| Pignl | 0.19014939 | 2.81035164 | 0.42843495 | 0.52024843 | 0.44498842 |
| B3gntl1 | 0.1568505 | 2.62906946 | 0.42817975 | 0.5203714 | 0.44505474 |
| Lypa1  | -0.1180591 | 5.19566608 | 0.42769165 | 0.52060675 | 0.44521716 |
| Gigyl1 | 0.22164037 | 2.40603753 | 0.42720607 | 0.52084108 | 0.44537867 |
| Pdia5  | 0.46702418 | 0.10203084 | 0.42683488 | 0.52102034 | 0.44547965 |
| Glce   | 0.09715487 | 6.45973608 | 0.42667923 | 0.52109554 | 0.44547965 |
| Tmem88 | -0.2311134 | 2.02488157 | 0.42667908 | 0.52109561 | 0.44547965 |
| Pcsk6  | 0.21289611 | 1.62600231 | 0.42610338 | 0.52137393 | 0.44567869 |
| Zfp934 | -0.1534368 | 3.61369777 | 0.42585938 | 0.52149197 | 0.44574069 |
| Fam13c | 0.1175645 | 4.49680051 | 0.42485568 | 0.52197804 | 0.44611723 |
| Efemp1 | -0.1761891 | 7.48332412 | 0.42431426 | 0.52224059 | 0.44625245 |
| Dnm1   | 0.10333593 | 8.86763299 | 0.42420377 | 0.52229419 | 0.44625245 |
| Gp1bb  | 0.21970118 | 1.60154465 | 0.42411997 | 0.52233486 | 0.44625245 |
| Al854517 | 0.13633917 | 3.70653765 | 0.4240684 | 0.52235989 | 0.44625245 |
| Gns    | 0.12366214 | 6.50749551 | 0.42405984 | 0.52236405 | 0.44625245 |
| Wfikkn2 | -0.308419 | 2.97892266 | 0.42378201 | 0.52249892 | 0.44631302 |
| Slc25a26 | -0.1359902 | 3.09585486 | 0.4237261 | 0.52252607 | 0.44631302 |
| Orc6   | -0.1116785 | 4.67622612 | 0.42339978 | 0.52268458 | 0.44640948 |
| Fl11r  | 0.19689983 | 2.71136474 | 0.42306617 | 0.52284673 | 0.44650903 |
| Tsh3   | 0.09370199 | 6.13421341 | 0.42240581 | 0.52316795 | 0.44674441 |
| Zfp286 | -0.1766187 | 3.27813945 | 0.42226949 | 0.52323431 | 0.44676212 |
| Nlrp1a | 0.1937484 | 1.62889049 | 0.42182461 | 0.52345096 | 0.44690816 |
| Dmc1   | 0.74706296 | -1.4697402 | 0.42162181 | 0.52354978 | 0.44695357 |
| Nfya   | -0.0874787 | 7.71546218 | 0.42121332 | 0.52374894 | 0.44707102 |
| Bmp7   | -0.1744878 | 7.77650848 | 0.42115242 | 0.52377864 | 0.44707102 |
| Stard7 | -0.0791794 | 6.2672211 | 0.42094266 | 0.52388097 | 0.44709504 |
| Gm20257 | -0.2443145 | 2.45904281 | 0.42088339 | 0.52390899 | 0.44709504 |
| Gm10509 | 0.18455669 | 2.66833887 | 0.42081406 | 0.52394372 | 0.44709504 |
| Cars   | 0.1539083 | 3.58290147 | 0.42070527 | 0.52399682 | 0.4471014 |
| Gene   | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   |
|--------|----------|----------|----------|----------|----------|----------|
| Hsd3b2 | 0.69195847 | -1.284295 | 0.4204775 | 0.5241082 | 0.44715734 |
| Stx16  | -0.0736826 | 6.02270895 | 0.42036913 | 0.52416094 | 0.44716354 |
| Dusp3  | -0.0758852 | 7.09315937 | 0.42011738 | 0.52428392 | 0.44722951 |
| Tmem232 | 0.31850169 | 1.34628122 | 0.41958182 | 0.52454572 | 0.44741386 |
| Ccdc122 | -0.2195541 | 2.24255344 | 0.41927858 | 0.52469406 | 0.44746671 |
| Ms1    | -0.069868  | 8.01020206 | 0.41926841 | 0.52469904 | 0.44746671 |
| Ccdc103 | -0.5122362 | -0.0614749 | 0.41896497 | 0.52484755 | 0.4475544 |
| Ubxn2b | 0.09525932 | 6.02215154 | 0.41839033 | 0.52512902 | 0.44775543 |
| Ier2   | -0.2680322 | 2.23049555 | 0.41826882 | 0.52518857 | 0.44776723 |
| Gucylb3 | 0.10438493 | 6.61329345 | 0.41806936 | 0.52528635 | 0.44781162 |
| Spsb1  | -0.1963195 | 2.80698223 | 0.41780248 | 0.52541724 | 0.4488423 |
| Dock8  | -0.1803758 | 2.85605871 | 0.41762726 | 0.52550321 | 0.44791853 |
| Chd3   | 0.08089696 | 7.99789304 | 0.41725836 | 0.52568428 | 0.44803388 |
| Ppp1r14b | -0.1964382 | 3.52403494 | 0.41701903 | 0.52580181 | 0.44809507 |
| Tram2  | 0.17327629 | 3.62401292 | 0.41680984 | 0.52590459 | 0.44814366 |
| Dcusd2 | -0.1027541 | 2.52819333 | 0.41649624 | 0.52605872 | 0.44822172 |
| Prdm4  | 0.12646616 | 4.99589618 | 0.41643729 | 0.52608771 | 0.44822172 |
| Hadhb  | -0.0884328 | 6.50866812 | 0.41629723 | 0.52615658 | 0.44823162 |
| Man2b2 | 0.18413955 | 3.67084702 | 0.41622756 | 0.52619085 | 0.44823162 |
| Tubg1  | -0.1251076 | 4.38928208 | 0.41610521 | 0.52625104 | 0.44824391 |
| Cfb    | 0.23021003 | 2.67106589 | 0.41563226 | 0.52648381 | 0.44836653 |
| Rlbp1  | 0.27846026 | 1.98670262 | 0.41562761 | 0.52648654 | 0.44836653 |
| Adrm1  | -0.0985271 | 4.16478739 | 0.41540783 | 0.52659433 | 0.44841871 |
| Brpf3  | 0.08575887 | 5.26307102 | 0.4153164 | 0.52663937 | 0.44841871 |
| Ucp3   | 0.65809807 | -0.2060946 | 0.41505274 | 0.52676929 | 0.44849035 |
| Histh4j | -0.2906898 | 0.67386973 | 0.41642984 | 0.5269778 | 0.44859835 |
| Galnt2 | 0.12422254 | 3.28437964 | 0.41459622 | 0.52699438 | 0.44859835 |
| Qprt   | -0.2714679 | 1.21650241 | 0.41444555 | 0.52706871 | 0.44859835 |
| Bco2   | -0.4727828 | 0.95810225 | 0.41444241 | 0.52707934 | 0.44859835 |
| Mdc1   | 0.09714841 | 5.55897763 | 0.41423163 | 0.52717427 | 0.4486225 |
| Prs32  | -0.5031019 | -0.3942978 | 0.41418092 | 0.5271993 | 0.4486225 |
| Mstn1  | 0.27096941 | 1.83431399 | 0.41402073 | 0.52727838 | 0.44865081 |
| Zbtb8b | 0.24807608 | 1.87284961 | 0.41356985 | 0.52750108 | 0.44880132 |
| Kcng4  | -0.2567632 | 1.67984873 | 0.41302125 | 0.52777229 | 0.44897523 |
| Iqca   | -0.5866396 | -0.2712999 | 0.41289667 | 0.52783391 | 0.44897523 |
| Nlrc3  | 0.682685 | -0.9379213 | 0.41287455 | 0.52784485 | 0.44897523 |
| 2900041m22 | -0.4423153 | -0.0298824 | 0.41278565 | 0.52788884 | 0.44897523 |
| Gpelp1 | 0.09066165 | 6.404355 | 0.41266679 | 0.52794765 | 0.44897796 |
| Ddx24  | -0.0866463 | 5.66962142 | 0.41259393 | 0.52798372 | 0.44897796 |
| Mafb   | -0.0915828 | 5.48543859 | 0.41230834 | 0.5281251 | 0.44905921 |
| Zfp7   | 0.20471599 | 2.73567721 | 0.41219248 | 0.52818248 | 0.44905959 |
| E130310i04r | 1.30526605 | -1.5761338 | 0.41212231 | 0.52821724 | 0.44905959 |
| Thumpd1 | -0.1027203 | 5.95277989 | 0.4112204 | 0.52866436 | 0.4494007 |
| Gene    | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|---------|---------|---------|---------|---------|---------|---------|
| Zfhx4   | 0.095603| 8.17332463| 0.41103256| 0.52875757| 0.44944093|
| Vmn2r57 | 0.4157292| 0.70186386| 0.41088723| 0.5288297| 0.44946324|
| Celsr1  | 0.19396188| 2.35191803| 0.41058658| 0.52897899| 0.44953873|
| Cog8    | 0.19673156| 2.01771711| 0.41045045| 0.52904661| 0.44953873|
| Pcsk1n  | -0.110329| 4.4277672| 0.41043114| 0.5290562| 0.44953873|
| Gng12   | -0.1166185| 6.58084897| 0.40998172| 0.52927957| 0.44964065|
| Sh3r1f  | 0.08641719| 5.05297757| 0.40996981| 0.52928549| 0.44964065|
| Cdipt   | -0.1026155| 4.67887572| 0.40979883| 0.52937051| 0.44964065|
| Taf9b   | 0.10546422| 6.91473087| 0.40977203| 0.52938384| 0.44964065|
| Cr2     | 0.40175227| 1.0796989| 0.40972815| 0.52940567| 0.44964065|
| Herpud2 | -0.0958409| 6.21592798| 0.40939984| 0.52956902| 0.44966805|
| Tpbg    | 0.19185584| 3.35700631| 0.40932192| 0.5296078| 0.44966805|
| Trf     | 0.13847747| 5.62323471| 0.40921754| 0.52965976| 0.44966805|
| Pou6f1  | 0.10906052| 5.0576674| 0.40918424| 0.52967634| 0.44966805|
| Gnat2   | 1.40354688| -1.6727266| 0.40911059| 0.52971302| 0.44966805|
| Elmo2   | 0.8040206| 5.92396524| 0.40910675| 0.52971493| 0.44966805|
| Vps37d  | -0.2933453| 0.98645161| 0.40901771| 0.52975927| 0.44966805|
| Spcs2   | -0.1232442| 5.45084433| 0.40884743| 0.52984415| 0.44970113|
| Asap1   | 0.09427834| 7.9708348| 0.40871873| 0.52990821| 0.44971653|
| Tgfbr1  | 0.11202871| 5.32494421| 0.40837712| 0.53007848| 0.44982206|
| Car9    | 0.52151352| -0.7352023| 0.40821972| 0.53015697| 0.44983524|
| Tor2a   | -0.2027788| 1.89822862| 0.40816179| 0.53018586| 0.44983524|
| Atp6v0b | 0.12256874| 4.83149849| 0.40792576| 0.53030361| 0.44986918|
| Tnks1bp1| -0.144552| 3.62382755| 0.4077046| 0.53041398| 0.44991657|
| Gm3258  | -0.4559204| -0.8824314| 0.40769352| 0.53041951| 0.44991657|
| Nuf2    | 0.6363564| -0.0548779| 0.40726786| 0.53063207| 0.44999863|
| Fkbp5   | -0.2097126| 5.97414013| 0.40710786| 0.53071201| 0.44999863|
| Tbc1d19 | 0.09962941| 5.83751372| 0.40698892| 0.53077145| 0.44999863|
| Ctsb    | -0.1000458| 7.9144416| 0.40691528| 0.53080826| 0.44999863|
| Fbxo24  | 0.43692633| -0.1138298| 0.40688494| 0.53082342| 0.44999863|
| Evi2a-evi2b| -0.5485262| -1.3671055| 0.40687147| 0.53083016| 0.44999863|
| Lxn     | -0.0883671| 4.9324771| 0.40685612| 0.53083783| 0.44999863|
| Lca5    | 0.13879694| 4.18042977| 0.40659726| 0.53096726| 0.4500694|
| Hic2    | 0.17826494| 2.3305498| 0.40624403| 0.53114398| 0.45008012|
| Pkp3    | -0.7280649| -1.3205244| 0.40622724| 0.53115238| 0.45008012|
| Ermant  | 0.47361372| 0.46988567| 0.40615134| 0.53119037| 0.45008012|
| 1110065P20l| -0.4121782| 0.87558483| 0.40613687| 0.53119761| 0.45008012|
| Cox6b2  | -0.2727089| 2.88656334| 0.40609061| 0.53122077| 0.45008012|
| Gimap9  | -0.5426053| 0.14078881| 0.40602104| 0.53125556| 0.45008012|
| Lcor    | 0.15212105| 3.98024282| 0.40591834| 0.53130702| 0.45008475|
| 4930578C19l| -0.8636239| -1.5017189| 0.40577904| 0.53137677| 0.45010492|
| Spsb2   | 0.32984213| 0.96639361| 0.40542702| 0.53155314| 0.45017179|
| Kifc1   | 0.63576075| -1.4155674| 0.40532057| 0.53160649| 0.45017179|
| Gene       | Gene       | Gene       | Gene       | Gene       | Gene       | Gene       | Gene       |
|------------|------------|------------|------------|------------|------------|------------|------------|
| Ccdc74a    | 0.18608227 | 2.01806722 | 0.40528444 | 0.53162462 | 0.45017179 |
| Slc30a7    | 0.11418768 | 4.66352327 | 0.405209   | 0.53166242 | 0.45017179 |
| Fancf      | -0.2141564 | 3.01588235 | 0.40516296 | 0.5316855  | 0.45017179 |
| Gxylt1     | -0.1028459 | 5.66834184 | 0.40474893 | 0.53189317 | 0.45030869 |
| Ccnh       | 0.09561348 | 4.97463151 | 0.40461152 | 0.53196212 | 0.45032815 |
| Zmynd11    | 0.07216703 | 7.87641286 | 0.40371658 | 0.53241162 | 0.45066248 |
| Dph2       | 0.19392602 | 1.76580914 | 0.40364205 | 0.53244909 | 0.45066248 |
| Btbd3      | 0.09459602 | 8.37597415 | 0.40346641 | 0.5325374  | 0.45069829 |
| Stard3nl   | 0.10982611 | 4.46531517 | 0.40334209 | 0.53259992 | 0.45071226 |
| Atad5      | 0.13971594 | 3.88604756 | 0.40320353 | 0.53266963 | 0.45072061 |
| Phf8       | 0.10765296 | 5.6399736  | 0.40308651 | 0.53272851 | 0.45072061 |
| Csnk1g3    | -0.0666609 | 7.45974778 | 0.40301635 | 0.53276381 | 0.45072061 |
| Chrm5      | -0.2859892 | 1.61380987 | 0.40291832 | 0.53281315 | 0.45072061 |
| Cblb       | 0.0999437  | 6.78147852 | 0.40286526 | 0.53283986 | 0.45072061 |
| G0s2       | -0.3046212 | 1.60032905 | 0.40270693 | 0.53291958 | 0.45074912 |
| Rbm33      | 0.11964739 | 5.58997343 | 0.40245878 | 0.53304456 | 0.4508159 |
| Slc6a17    | -0.0855338 | 8.25018407 | 0.40235837 | 0.53309515 | 0.45081976 |
| Maf1       | -0.1195144 | 4.57616593 | 0.40179124 | 0.53338104 | 0.45099027 |
| Mlitt10    | 0.08798551 | 6.2237758 | 0.40177576 | 0.53338885 | 0.45099027 |
| Dsc2       | 0.4707033  | -0.1495148 | 0.40146628 | 0.53354499 | 0.4510486 |
| 2700070H01 | 0.53509753 | -1.1984218 | 0.40145648 | 0.53354994 | 0.4510486 |
| Pld1       | -0.1350094 | 5.52894528 | 0.4010103  | 0.53377974 | 0.45120393 |
| Gm15455    | -0.4105811 | -0.8764265 | 0.40089859 | 0.53383161 | 0.45120884 |
| Psmf1      | -0.1259384 | 4.76051962 | 0.40071119 | 0.5339263  | 0.45124993 |
| Naa25      | 0.11395999 | 4.53536187 | 0.40052734 | 0.53401922 | 0.45126152 |
| Dlg2       | 0.11011339 | 9.50865062 | 0.40050176 | 0.53403215 | 0.45126152 |
| Ssbp4      | -0.1653151 | 2.9201445 | 0.3999871  | 0.53429243 | 0.45144251 |
| Top2a      | 0.20283299 | 2.36370115 | 0.39969891 | 0.53443828 | 0.45149946 |
| Pla2g5     | 0.3497222  | 4.13780082 | 0.39960164 | 0.53448752 | 0.45149946 |
| Mgm1e      | -0.210283 | 2.92595142 | 0.39958074 | 0.53449811 | 0.45149946 |
| Use1       | -0.1826341 | 4.73330947 | 0.39912687 | 0.53472801 | 0.45165472 |
| Slc7a4     | 0.17162958 | 2.98030875 | 0.39897033 | 0.53480734 | 0.45168277 |
| Slc45a1    | 0.17906995 | 2.61914513 | 0.39871827 | 0.53493513 | 0.45175175 |
| 4930539E08I| -0.1601267 | 3.15092154 | 0.39839417 | 0.53509953 | 0.45185163 |
| Gm6525     | 0.98671701 | -1.3451882 | 0.39797363 | 0.53530094 | 0.45193664 |
| St3gal2    | 0.08123875 | 5.92266657 | 0.39780152 | 0.5354004  | 0.45193664 |
| 4933408N05 | 0.56426391 | -1.0389726 | 0.39769042 | 0.53545683 | 0.45193664 |
| Ubac1      | -0.1291245 | 3.83876854 | 0.39768958 | 0.53545726 | 0.45193664 |
| Ube2a      | -0.1077122 | 6.34368022 | 0.39767945 | 0.5354624  | 0.45193664 |
| Fam120a    | 0.07364371 | 8.53748752 | 0.39765067 | 0.53547702 | 0.45193664 |
| 4921507L20f| -0.5368497 | -0.5854421 | 0.39723597 | 0.5356878  | 0.45196037 |
| Oas1c      | 0.27286467 | 1.37818016 | 0.39714055 | 0.53573631 | 0.45196037 |
| Kifap3     | 0.1139119 | 8.45919916 | 0.39699185 | 0.53581194 | 0.45196037 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Cer1   | -0.9199102 | -1.0477751 | 0.39691709 | 0.53584997 | 0.45196037 |
| Smg8   | 0.09673919 | 4.41716152 | 0.396869 | 0.53587444 | 0.45196037 |
| Ncaph  | 0.52095844 | -0.3833775 | 0.39683256 | 0.53589298 | 0.45196037 |
| Cyp4a12a | -0.3897992 | 0.33010548 | 0.39682142 | 0.53589865 | 0.45196037 |
| Gm4788 | -0.3373839 | 0.00703406 | 0.39671388 | 0.53595337 | 0.45196037 |
| Pdia3  | -0.0977877 | 7.51848694 | 0.39668895 | 0.53596606 | 0.45196037 |
| Cab39l | -0.0943257 | 5.7725496 | 0.39661496 | 0.53600371 | 0.45196037 |
| 2010109I03R | 0.53805049 | -1.33369 | 0.39653106 | 0.53604642 | 0.45196037 |
| Ccp110 | 0.10054336 | 5.8898063 | 0.39643363 | 0.53609603 | 0.45196037 |
| Dpt    | -0.5592853 | 0.73137947 | 0.39641318 | 0.53610644 | 0.45196037 |
| Gtt7   | 0.16766136 | 2.63432091 | 0.39631638 | 0.53615573 | 0.45196037 |
| Hnrnpa0 | -0.0711511 | 7.6352573 | 0.39623487 | 0.53619724 | 0.45196037 |
| Vmn2r118 | 0.86621155 | -1.2699865 | 0.39513165 | 0.53675971 | 0.45239554 |
| Rgn    | 1.03539881 | -1.5682967 | 0.3949355 | 0.53685983 | 0.45241706 |
| Erich3 | 0.21877776 | 3.68636656 | 0.39490066 | 0.53687762 | 0.45241706 |
| Nudt21 | 0.12405518 | 4.7723066 | 0.39478587 | 0.53693623 | 0.45242753 |
| Fam46c | -0.1678166 | 2.4252796 | 0.39442903 | 0.53711851 | 0.45253101 |
| Crel1d | 0.1562031 | 3.59084989 | 0.39430321 | 0.53718281 | 0.45253101 |
| Gcc2   | 0.10817481 | 7.54554474 | 0.39425608 | 0.53720689 | 0.45253101 |
| Hyl1   | 0.22310445 | 3.56170097 | 0.39410702 | 0.5372831 | 0.45253101 |
| Gm15706 | -0.1965148 | 1.90207161 | 0.39409345 | 0.53729004 | 0.45253101 |
| Ndufb3 | -0.1171108 | 5.49258129 | 0.3938885 | 0.53739484 | 0.45255872 |
| Lrrd1  | -0.5576364 | -0.3771125 | 0.39384844 | 0.53741533 | 0.45255872 |
| Lad1   | 0.92527934 | -1.4804742 | 0.39372787 | 0.53747701 | 0.45257175 |
| Spcs3  | 0.07763544 | 6.30157083 | 0.39325164 | 0.53772076 | 0.45267217 |
| Zfp493 | 0.2356525 | 2.60744916 | 0.39321293 | 0.53774058 | 0.45267217 |
| Extl1  | 0.13288165 | 3.57333937 | 0.39309353 | 0.53780173 | 0.45267217 |
| Rgag1  | -0.2891808 | 0.93509014 | 0.3930928 | 0.53780211 | 0.45267217 |
| Gsdmc4 | -0.8791883 | -1.6809568 | 0.39303601 | 0.5378312 | 0.45267217 |
| Tep1   | -0.2072825 | 2.96774896 | 0.39287345 | 0.53791448 | 0.45267217 |
| Krtpc3 | 0.48755066 | -0.9806215 | 0.3927805 | 0.53796211 | 0.45267217 |
| Pvalb  | -0.1864373 | 2.39315365 | 0.39269052 | 0.53800823 | 0.45267217 |
| Tcf24  | 0.34009185 | 1.26987938 | 0.39261719 | 0.53804582 | 0.45267217 |
| Ablim1 | -0.0732706 | 6.74637897 | 0.39259264 | 0.53805841 | 0.45267217 |
| Nipal2 | -0.1921458 | 2.85416739 | 0.39237705 | 0.53816895 | 0.45272044 |
| Hnrnpa2b1 | -0.0594234 | 8.6580106 | 0.3922291 | 0.53824484 | 0.45272044 |
| Trim63 | 0.31106967 | 1.2032021 | 0.39221039 | 0.53825443 | 0.45272044 |
| Dusp19 | 0.11852453 | 4.78410897 | 0.39198076 | 0.53837226 | 0.45277756 |
| Ackr3  | -0.1465203 | 3.93527382 | 0.39180664 | 0.53846164 | 0.45277756 |
| Gpr20  | -0.7039376 | -1.386732 | 0.39173217 | 0.53849987 | 0.45277756 |
| Abl2   | 0.11173763 | 5.655913 | 0.39156773 | 0.53858431 | 0.45277756 |
| Cacng2 | 0.08686829 | 5.27518469 | 0.39146945 | 0.53863479 | 0.45277756 |
| Slc4a5 | -0.5083798 | 0.04024916 | 0.39145614 | 0.53864163 | 0.45277756 |
| Gene  | Value |
|-------|-------|
| Tmem253 | -0.722034 -1.077582 0.39137457 0.53868354 0.45277756 |
| AA414768 | 0.13885262 3.09144475 0.39135784 0.53869213 0.45277756 |
| Slc6a13 | -0.179971 6.53886407 0.39115973 0.53879394 0.45282427 |
| Usp42 | 0.11591449 4.91321096 0.39106834 0.53884091 0.4528249 |
| Entpd2 | 0.3172803 0.55519252 0.39059889 0.53908234 0.45298892 |
| Lgi2 | -0.2083077 2.70263887 0.39022249 0.53927606 0.45311284 |
| Nmd3 | 0.10411026 5.08200007 0.38990213 0.53944104 0.45318523 |
| Eln | 0.19913367 2.43103705 0.3898509 0.53946744 0.45318523 |
| IIs | 0.9982546 -1.8544092 0.38972837 0.53953057 0.45318523 |
| Gm1715 | -0.7750659 -1.7361002 0.38969593 0.53954729 0.45318523 |
| Gpatch1 | -0.0861386 5.0819513 0.38938413 0.53970801 0.4532733 |
| Nrp2 | 0.09126054 5.60289257 0.38931301 0.53974468 0.4532733 |
| 2210408I21R | 0.15353833 4.27033096 0.38920598 0.53979988 0.45328079 |
| Htr2a | 0.14235535 4.42755385 0.38905708 0.53987669 0.45330643 |
| Dhfr | -0.1202079 3.80304629 0.38880362 0.54000748 0.45337739 |
| Igsf8 | 0.10732263 5.06803153 0.38868393 0.54006927 0.4533904 |
| Rbm14 | -0.1802582 3.06542224 0.38838479 0.54022375 0.45348122 |
| 9030612E09i | -0.3232451 1.32594339 0.38823603 0.5403006 0.45350687 |
| 6330409D20 | 0.30327012 0.73535737 0.38812323 0.54035889 0.45351693 |
| Necab3 | 0.12464089 5.96483057 0.38785771 0.54049614 0.45359326 |
| Kif5c | 0.11021057 9.59216499 0.38744333 0.54071047 0.45368673 |
| Cdk1 | -0.8333245 -1.4653054 0.38743494 0.54071481 0.45368673 |
| Cntf | 0.60091564 -1.5165918 0.38737376 0.54074646 0.45368673 |
| Ubxn10 | 0.38716842 0.82229865 0.38687578 0.54100428 0.45386416 |
| Apof | -0.503435 -0.0834847 0.38666906 0.54111137 0.45388985 |
| Gm16796 | -1.2519843 -2.0218992 0.38660924 0.54114237 0.45388985 |
| Top3b | 0.15874965 3.52638291 0.38654837 0.54117391 0.45388985 |
| Golga1 | -0.0827075 5.51897548 0.38578286 0.54157093 0.45414993 |
| Sepsecs | -0.2151825 2.25079891 0.38577166 0.54157674 0.45414993 |
| Credl2 | 0.1777958 3.22286523 0.38518845 0.54187958 0.45436498 |
| Ldlrad3 | -0.1743471 5.77201379 0.38483839 0.5420615 0.45443586 |
| Aagab | -0.0988511 4.71518943 0.3847181 0.54212404 0.45443586 |
| Tbc1d2 | -0.4623743 -0.1847319 0.38458912 0.54219112 0.45443586 |
| Narf | -0.1071182 5.05031962 0.38430491 0.54233898 0.45443586 |
| Arfgap1 | -0.118106 4.53177529 0.38426467 0.54235992 0.45443586 |
| Snrpd2 | -0.1730801 4.07892904 0.38423742 0.5423741 0.45443586 |
| Prox2 | -0.2471414 1.61354989 0.38420271 0.54239216 0.45443586 |
| Zc2hc1c | -0.2483414 2.21582011 0.38416761 0.54241043 0.45443586 |
| 4931408D14 | 0.37970926 0.71792381 0.38414361 0.54242293 0.45443586 |
| Mog | 0.18574884 2.85453928 0.38413379 0.54242803 0.45443586 |
| Marveld3 | 0.92280042 -0.9875168 0.38384042 0.54258079 0.45452496 |
| 4930524B15 | 1.00400437 -1.5930791 0.3836528 0.54267852 0.45456795 |
| Kif13a | -0.0862462 5.84859562 0.38326442 0.54288093 0.45469862 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Zfhx2os| 0.39191691 | 0.39938693 | 0.38295244 | 0.54304363 | 0.45479287 |
| Zmat5  | -0.2058448 | 2.44656038 | 0.3828706 | 0.54308633 | 0.45479287 |
| 6720483E21 | 0.73943781 | -1.75208899 | 0.38260681 | 0.54322399 | 0.45486927 |
| Surf6  | -0.1216221 | 3.73763035 | 0.38203318 | 0.54352357 | 0.45508122 |
| Zfp53  | -0.1501671 | 2.75478349 | 0.38182473 | 0.54363251 | 0.45513353 |
| Npr3   | 0.14999133 | 5.29409063 | 0.38148543 | 0.54380992 | 0.45524315 |
| Lama5  | -0.1857088 | 1.76974396 | 0.38104621 | 0.54403975 | 0.45536475 |
| Prkar1a | -0.0637499 | 9.6161682 | 0.38099309 | 0.54406756 | 0.45536475 |
| H2-K2  | 0.58533314 | -0.367524 | 0.38094138 | 0.54409463 | 0.45536475 |
| Nsmf   | 0.09597137 | 5.93049297 | 0.38073024 | 0.5442052 | 0.45541837 |
| E2f3   | -0.1044692 | 5.37305131 | 0.38054303 | 0.54430327 | 0.45543753 |
| Nfatc2 | -0.1477294 | 3.35874337 | 0.38050903 | 0.54432109 | 0.45543753 |
| Paqr4  | 0.14935407 | 3.91087184 | 0.38006142 | 0.54455572 | 0.45553019 |
| Selt   | -0.0943953 | 8.78450393 | 0.38004066 | 0.54456661 | 0.45553019 |
| Trabd  | -0.2133415 | 2.25259154 | 0.38003162 | 0.54457135 | 0.45553019 |
| Gm7444 | -0.4558787 | 0.29348424 | 0.37955664 | 0.54482056 | 0.45565897 |
| I830012O16f | 0.16425204 | 4.05990536 | 0.37951099 | 0.54484452 | 0.45565897 |
| Kcnv1  | 0.14176928 | 6.74877182 | 0.37928072 | 0.54496543 | 0.45565897 |
| Zfp287 | 0.14834749 | 4.00793578 | 0.37924393 | 0.54498475 | 0.45565897 |
| Tspan8 | 0.21326239 | 4.35901052 | 0.37921755 | 0.54499861 | 0.45565897 |
| Jph4   | 0.08051741 | 7.22585029 | 0.37911499 | 0.54505248 | 0.45565897 |
| Fam35a | -0.2130282 | 2.54139424 | 0.37907014 | 0.54507604 | 0.45565897 |
| Zfp273 | 0.14580601 | 3.24774517 | 0.37902833 | 0.545098 | 0.45565897 |
| Abcd3  | -0.0783252 | 6.90680663 | 0.37894087 | 0.54514396 | 0.45565897 |
| Cpeb2  | -0.0704014 | 7.36638977 | 0.37877717 | 0.54523 | 0.45568395 |
| Bex1   | -0.1312555 | 5.22081363 | 0.37858441 | 0.54533134 | 0.45568395 |
| Rgs1   | 0.48587894 | -0.295751 | 0.37854668 | 0.54535118 | 0.45568395 |
| Pygo1  | -0.0998194 | 4.86566756 | 0.37846514 | 0.54539406 | 0.45568395 |
| A630075F10 | 0.46018613 | -0.7287085 | 0.37844159 | 0.54540645 | 0.45568395 |
| Ccdc55 | -0.0773733 | 6.97211916 | 0.37813816 | 0.54556609 | 0.45577846 |
| 6720489N17 | 0.13318774 | 3.66694827 | 0.37789762 | 0.54569271 | 0.45584536 |
| Rassf5 | -0.1023712 | 4.01244419 | 0.37758648 | 0.54585657 | 0.45594335 |
| Fgnl2  | 0.29285252 | 1.1062992 | 0.37748054 | 0.54591238 | 0.45595109 |
| AV039307 | 0.40201968 | 0.33744871 | 0.37724655 | 0.5460357 | 0.45598405 |
| Gm20300 | -0.0817302 | 7.24327955 | 0.37715459 | 0.54608418 | 0.45598405 |
| Lrrc29 | -0.6241652 | -0.596089 | 0.37714072 | 0.54609149 | 0.45598405 |
| BC055402 | -1.0151223 | -2.4646339 | 0.37649342 | 0.54643298 | 0.45623029 |
| 2900009J06f | -0.5967829 | -0.6726362 | 0.3762673 | 0.54655236 | 0.45629108 |
| Celf3  | 0.11292757 | 5.51005772 | 0.37601162 | 0.54668741 | 0.45636493 |
| Acot6  | -0.1729056 | 2.70793181 | 0.37585601 | 0.54676964 | 0.45639468 |
| Ccm2l  | -0.6379665 | -0.5703278 | 0.37541507 | 0.54700276 | 0.45655036 |
| Syne3  | 0.4037006 | 0.83033734 | 0.37523338 | 0.54709888 | 0.45655314 |
| Crtc2  | 0.11362627 | 4.0438307 | 0.37518561 | 0.54712415 | 0.45655314 |
| Gene         | Value1     | Value2     | Value3     | Value4     | Value5     |
|--------------|------------|------------|------------|------------|------------|
| Tgm2         | -0.1250567 | 4.09520623 | 0.3751449  | 0.54714591| 0.45655314 |
| Xylt1        | 0.19044253 | 2.83464097 | 0.37487656 | 0.54728773| 0.45663257 |
| Pou3f2       | -0.1086003 | 4.41732911 | 0.37468803 | 0.54738756| 0.45667697 |
| Ttc19        | 0.09084485 | 6.26122451 | 0.37457705 | 0.54744635| 0.45668712 |
| 1700101E01i  | 0.652862   | -0.8806146 | 0.37436131 | 0.54756066| 0.45670249 |
| Mtm1         | 0.20968416 | 2.68765722 | 0.37434252 | 0.54757061| 0.45670249 |
| Mir6920      | 0.61957443 | -1.5890956 | 0.37410906 | 0.54769436| 0.45670249 |
| Tert         | 0.49578167 | -0.679246  | 0.37407547 | 0.54771217| 0.45670249 |
| 2310045N01   | -0.1921823 | 4.79237446 | 0.37394157 | 0.54778318| 0.45670249 |
| Trmt2a       | -0.1399005 | 3.786557   | 0.37393371 | 0.54778735| 0.45670249 |
| Htra2        | 0.26344315 | 1.29477846 | 0.37383819 | 0.54783802| 0.45670249 |
| Pde4b        | 0.10199375 | 7.973375   | 0.37368332 | 0.54792018| 0.45670249 |
| 2810417H13   | 0.36980221 | 0.64624972 | 0.37365553 | 0.54794554| 0.45670249 |
| Ddx4         | 0.08631744 | 6.02745186 | 0.37352773 | 0.54800275| 0.45670249 |
| Sh3bgrl2     | -0.116434  | 4.30173649 | 0.37345383 | 0.54804198| 0.45670249 |
| Rgs2         | -0.0924604 | 7.30623261 | 0.37336541 | 0.54808892| 0.45670249 |
| Hdac1        | -0.119143  | 5.29501835 | 0.37331191 | 0.54811732| 0.45670249 |
| Pde5a        | -0.1327306 | 6.52878451 | 0.37331153 | 0.54811752| 0.45670249 |
| Zscan26      | 0.06536763 | 7.19874015 | 0.37311753 | 0.54822055| 0.45670588 |
| Got2         | -0.0733055 | 7.01775185 | 0.37311303 | 0.54822294| 0.45670588 |
| Gmpr         | -0.2059983 | 2.07266291 | 0.37304052 | 0.54826146| 0.45670588 |
| Fort         | 0.68039486 | -1.6899519 | 0.37268276 | 0.54845158| 0.45673618 |
| 4930405J17F  | 0.40108605 | 1.00072485 | 0.37266146 | 0.54846291| 0.45673618 |
| Lgfbp4       | -0.1458506 | 5.14860724 | 0.37263522 | 0.54847686| 0.45673618 |
| Ndst2        | 0.1432801  | 3.30347432 | 0.37262112 | 0.54848435| 0.45673618 |
| Sox17        | -0.3041066 | 1.86351752 | 0.37212899 | 0.54874611| 0.4568608 |
| Gtf2ird2     | 0.18658634 | 2.65349216 | 0.37207884 | 0.5487728 | 0.4568608 |
| Wnt10a       | 0.20320541 | 1.65062776 | 0.37205133 | 0.54878744| 0.4568608 |
| 2210015D19   | 0.13059295 | 3.178976  | 0.37198911 | 0.54882056| 0.4568608 |
| 1810062018   | 0.4150466 | 0.63893738 | 0.37178779 | 0.54892774| 0.45691119 |
| Scl25a21     | 0.39781651 | 0.19478389 | 0.37138284 | 0.54914345| 0.45696745 |
| Cdkn2aipn1   | -0.1055242 | 4.48162468 | 0.37137405 | 0.54914813| 0.45696745 |
| Uba3         | -0.0808358 | 6.23925471 | 0.37136424 | 0.54915336| 0.45696745 |
| Pten         | -0.0711225 | 9.22052376 | 0.37131061 | 0.54918194| 0.45696745 |
| Arip2        | -0.0957042 | 4.72467566 | 0.37113258 | 0.54927684| 0.45697626 |
| Mrs1         | -0.7634098 | -1.3220509 | 0.37111571 | 0.54928583| 0.45697626 |
| Fam155a      | -0.0968967 | 6.69012916 | 0.37097223 | 0.54936234| 0.4570011 |
| St6galnac6   | -0.1299896 | 4.07207896 | 0.37076173 | 0.54947462| 0.45703466 |
| Uck1         | 0.13396109 | 3.45904809 | 0.370594   | 0.54956412| 0.45703466 |
| Ldlr         | 0.10786446 | 3.69142439 | 0.370591   | 0.54956572| 0.45703466 |
| Coll1        | 0.13734745 | 3.65295433 | 0.37054678 | 0.54958932| 0.45703466 |
| Lgf2bp2      | -0.2223189 | 1.32033371 | 0.3704384 | 0.54964717| 0.45704397 |
| Mapk1ip1     | -0.0950734 | 4.40151255 | 0.37026954 | 0.54973733| 0.4570672 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|
| Zfp316 | 0.14953275 | 3.73283924 | 0.37021128 | 0.54976844 | 0.4570672 |
| 4933432109R | 0.94683704 | -0.7107174 | 0.36955576 | 0.55011873 | 0.45731962 |
| Pip5k1b | 0.18817667 | 2.98888508 | 0.36937474 | 0.55021554 | 0.45732286 |
| Ria1d  | -0.3580638 | 0.2172966 | 0.36922142 | 0.55029756 | 0.45732286 |
| Mrpl47  | 0.10498904 | 3.55239049 | 0.36921614 | 0.55030039 | 0.45732286 |
| Zfp708  | 0.1414516 | 3.49910848 | 0.3691866 | 0.55031619 | 0.45732286 |
| Cyp2u1  | 0.27741599 | 0.87259289 | 0.36905206 | 0.55038819 | 0.45732286 |
| Mrcl    | -0.2490829 | 2.19715843 | 0.36882182 | 0.55051144 | 0.45732286 |
| Gas7    | -0.073229 | 9.7921324 | 0.3687977 | 0.55052436 | 0.45732286 |
| Slc36a2 | -0.7747675 | -1.7024372 | 0.3687339 | 0.55055852 | 0.45732286 |
| Cpq     | 0.18066769 | 4.27189071 | 0.36857616 | 0.55064301 | 0.45732286 |
| Rnmt    | -0.0773299 | 5.92020427 | 0.36857449 | 0.5506439 | 0.45732286 |
| Dleu7   | 0.24766354 | 1.26264563 | 0.36839105 | 0.55074219 | 0.45732286 |
| Nudcd3  | -0.0688125 | 6.41496489 | 0.36833101 | 0.55077436 | 0.45732286 |
| Mab21l2 | 0.71860357 | -0.8035876 | 0.36822975 | 0.55082863 | 0.45732286 |
| Gid8    | -0.0713753 | 6.55454777 | 0.36822481 | 0.55083129 | 0.45732286 |
| Nek10   | -0.4090881 | 0.42378789 | 0.36817786 | 0.55085645 | 0.45732286 |
| Slc6a2a | -0.1847981 | 5.60574727 | 0.36807263 | 0.55091287 | 0.45732286 |
| Pik3ca  | 0.06623311 | 7.01483984 | 0.36806619 | 0.55091632 | 0.45732286 |
| Dyncl1l1 | 0.10689158 | 5.04728039 | 0.36791686 | 0.5509964 | 0.45735057 |
| Cdk19   | 0.35843248 | -0.0493362 | 0.3669671 | 0.55150626 | 0.45773498 |
| Cd9     | 0.07849646 | 7.00391856 | 0.36681165 | 0.55158979 | 0.45776482 |
| Arhgef26 | 0.12325374 | 4.33599906 | 0.36637124 | 0.55182659 | 0.45788447 |
| Tspan12 | 0.18356927 | 3.01681319 | 0.36626317 | 0.55188473 | 0.45789392 |
| Nhs1l   | -0.1047873 | 7.15377938 | 0.36612952 | 0.55195665 | 0.4579148 |
| Cnot8   | -0.0974156 | 4.59883218 | 0.36575982 | 0.55215567 | 0.45802133 |
| Ppap2a  | -0.1404012 | 3.7937364 | 0.36571728 | 0.55217858 | 0.45802133 |
| Sdf4    | -0.0646854 | 7.98580178 | 0.36542599 | 0.5523355 | 0.45807339 |
| Slc25a54 | 0.66772085 | -0.925918 | 0.36538748 | 0.55235625 | 0.45807339 |
| Mgst2   | 0.71485462 | -1.4875532 | 0.36534039 | 0.55238163 | 0.45807339 |
| Cnep1r1 | 0.08396642 | 5.90933978 | 0.36512334 | 0.55249864 | 0.45809682 |
| Knck12  | 0.52222534 | -1.2942537 | 0.36511446 | 0.55250342 | 0.45809682 |
| Trmt10c | -0.1149759 | 4.78226766 | 0.3645956 | 0.55278332 | 0.4582901 |
| Isl1    | 0.27665876 | 1.28366596 | 0.36433291 | 0.55292513 | 0.45833539 |
| No13    | 0.14478542 | 2.96021969 | 0.36432508 | 0.55292936 | 0.45833539 |
| Acaa1b  | 0.29141565 | 0.75719299 | 0.36402362 | 0.55309218 | 0.45838616 |
| Sesn1   | 0.08088038 | 6.4168834 | 0.36398101 | 0.55311521 | 0.45838616 |
| Acot11  | 0.12439993 | 3.82662615 | 0.36388582 | 0.55316665 | 0.45838616 |
| Spa17   | 0.24191992 | 2.41346414 | 0.36377868 | 0.55322455 | 0.45838616 |
| Tars    | 0.10241518 | 4.55001334 | 0.36373135 | 0.55325014 | 0.45838616 |
| Sgip1   | 0.09946789 | 8.10724872 | 0.36368805 | 0.55327355 | 0.45838616 |
| Kcnj12  | -0.1583587 | 3.19352967 | 0.36352144 | 0.55336364 | 0.45841532 |
| Gene   | X1  | X2  | X3  | X4  | X5  | X6  |
|--------|-----|-----|-----|-----|-----|-----|
| Spata3 | -0.5758627 | -0.8067021 | 0.36344985 | 0.55340236 | 0.45841532 |
| Glis3  | -0.1522622 | 3.09215531 | 0.3633196 | 0.55347282 | 0.45843492 |
| Trim59 | 0.16234932 | 3.40018725 | 0.36285718 | 0.5537231 | 0.45860345 |
| Hist1h2bj | -0.5546473 | -1.5692539 | 0.36274792 | 0.5578227 | 0.45861368 |
| D19Bw135 | 0.08548067 | 5.51629324 | 0.36261859 | 0.55385232 | 0.45862185 |
| Foxm1  | -0.2908495 | 1.41921814 | 0.36241716 | 0.55396146 | 0.45862185 |
| Tchh   | -0.1603132 | 3.01158791 | 0.36239703 | 0.55397237 | 0.45862185 |
| Rpa1   | 0.09207156 | 4.58334867 | 0.36233322 | 0.55400696 | 0.45862185 |
| Rs1    | 0.67060702 | -0.2740352 | 0.36228272 | 0.55403433 | 0.45862185 |
| Nek6   | -0.1271959 | 4.83374912 | 0.36221128 | 0.55407306 | 0.45862185 |
| Homer3  | -0.1614807 | 1.81476363 | 0.36195376 | 0.5542127 | 0.45866547 |
| Sla    | -0.1391824 | 3.91966931 | 0.36192985 | 0.55422568 | 0.45866547 |
| Suv420h2 | 0.37601659 | -0.0499833 | 0.36184351 | 0.55427251 | 0.45866547 |
| Gm11627 | -0.2577565 | 1.40812479 | 0.36170859 | 0.55434572 | 0.45866547 |
| Ism1   | 0.20819173 | 3.28477602 | 0.3616825 | 0.55435988 | 0.45866547 |
| Fndc5  | -0.0889524 | 5.00331875 | 0.36114063 | 0.55465409 | 0.45883313 |
| Tfp2   | 0.10110923 | 3.79045747 | 0.36103826 | 0.55470971 | 0.45883313 |
| Agpat4 | 0.11500058 | 5.19971773 | 0.36103372 | 0.55471218 | 0.45883313 |
| Tpnc2  | 0.50823085 | -0.307709 | 0.36092759 | 0.55476985 | 0.45883313 |
| Aspdlh | -0.4411168 | 0.11307525 | 0.36087635 | 0.5547977 | 0.45883313 |
| Erbb2ip | 0.06545952 | 7.94454887 | 0.36079196 | 0.55484357 | 0.45883313 |
| Tmem150co | 0.63985417 | -0.5281174 | 0.36022558 | 0.55515163 | 0.45904913 |
| Ccc173 | 0.17044077 | 3.05128335 | 0.36012738 | 0.55520507 | 0.45905457 |
| Tln1   | -0.1167508 | 6.04945015 | 0.35968997 | 0.55544325 | 0.45919601 |
| Kcnj14 | 0.75128006 | -1.0669554 | 0.35957812 | 0.55550419 | 0.45919601 |
| Folr2  | -0.6631419 | -0.8304092 | 0.35955502 | 0.55551678 | 0.45919601 |
| Mplkip | 0.09377374 | 4.05352396 | 0.35942148 | 0.55558955 | 0.45921741 |
| Fgf5   | 0.19243748 | 2.67938052 | 0.35908668 | 0.55577208 | 0.45932338 |
| Zfp51  | 0.15323481 | 4.1864609 | 0.35901434 | 0.55581154 | 0.45932338 |
| Nipa2  | 0.10448937 | 4.76445489 | 0.3588394 | 0.55590698 | 0.45936349 |
| Moxd1  | 0.16077792 | 2.93073035 | 0.35855408 | 0.5560627 | 0.45942755 |
| Zfp300 | -0.1663749 | 2.71413456 | 0.35852551 | 0.5560783 | 0.45942755 |
| Gnat1  | -0.5107963 | -0.4817534 | 0.35806818 | 0.5563281 | 0.45959482 |
| Sema3c | -0.1138333 | 3.8203494 | 0.35788735 | 0.55642692 | 0.45959482 |
| Hectd3 | -0.1135019 | 4.6912483 | 0.35783535 | 0.55645535 | 0.45959482 |
| Fam58b | -0.1590168 | 4.09447951 | 0.35773973 | 0.55650763 | 0.45959482 |
| Gsn    | -0.1261812 | 5.4563857 | 0.35772559 | 0.55651536 | 0.45959482 |
| Ctdp1  | -0.1053312 | 3.88503483 | 0.35738649 | 0.55670084 | 0.45967034 |
| Efr3a  | -0.0823031 | 7.52803135 | 0.35738611 | 0.55670105 | 0.45967034 |
| Zic5   | 0.24063864 | 1.62181319 | 0.35730106 | 0.55674759 | 0.45967034 |
| Zeb2   | 0.08774269 | 8.89773701 | 0.35672415 | 0.55706347 | 0.45989238 |
| Bbc3   | -0.3506787 | -1.095236 | 0.35660073 | 0.5571311 | 0.45990945 |
| Fam86  | -0.1700396 | 3.38812708 | 0.35630445 | 0.5572935 | 0.46000474 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Tinf2  | -0.1703993 | 2.67584235 | 0.35612835 | 0.55739007 | 0.46004569 |
| Tbrg4  | 0.11166571 | 3.84983377 | 0.35584556 | 0.55754521 | 0.46013497 |
| E130309D14 | 0.11943676 | 4.98591316 | 0.35527226 | 0.55786 | 0.46035597 |
| Cd37   | 0.53739664 | -0.4761001 | 0.35516943 | 0.5579165 | 0.46036381 |
| Smarcd2 | 0.19453966 | 3.09274541 | 0.35507662 | 0.5579675 | 0.46036711 |
| Stim1   | 0.11281011 | 4.00960311 | 0.35484803 | 0.55809315 | 0.4603935 |
| Des    | -0.3302298 | 0.62764967 | 0.354838 | 0.55809867 | 0.4603935 |
| Cenpi  | -0.5415607 | -0.5162075 | 0.35476195 | 0.55814049 | 0.4603935 |
| Rtkn   | -0.150561 | 3.44422276 | 0.3545724 | 0.55824474 | 0.46044072 |
| Fbxl15  | -0.4066334 | -0.4412051 | 0.35437 | 0.55835611 | 0.4604938 |
| Aaas   | -0.1523582 | 3.0916257 | 0.35425479 | 0.55841952 | 0.46050733 |
| Zfp324  | 0.18216173 | 3.0189689 | 0.35393714 | 0.55859443 | 0.4605125 |
| S330426P16i | -0.1943431 | 2.64642788 | 0.35383119 | 0.55865279 | 0.4605125 |
| 0610037L13f | -0.1282813 | 4.97435407 | 0.35370534 | 0.55872213 | 0.4605125 |
| Rad54l  | 0.30268058 | 0.81036565 | 0.35358965 | 0.55878589 | 0.4605125 |
| Cpb1    | -0.2602512 | 2.22765188 | 0.35347376 | 0.55884977 | 0.4605125 |
| Sall3   | 0.18471126 | 1.87691425 | 0.35343536 | 0.55887094 | 0.4605125 |
| AWS49877 | -0.0778184 | 7.65307398 | 0.353417 | 0.55888106 | 0.4605125 |
| Uri1    | 0.07513325 | 6.632009 | 0.35338381 | 0.55889936 | 0.4605125 |
| Kti12   | 0.20529836 | 2.3447234 | 0.35334638 | 0.55892 | 0.4605125 |
| Angptl2  | -0.1806962 | 4.88653529 | 0.35330475 | 0.55894296 | 0.4605125 |
| Ms4a1   | -0.8179194 | -1.7458976 | 0.35289052 | 0.55917148 | 0.4607008 |
| Bahc1   | 0.12588157 | 3.98732664 | 0.3527033 | 0.55927483 | 0.46074584 |
| Kcnmb1  | 0.60448806 | -1.0258641 | 0.35262108 | 0.55932023 | 0.46074584 |
| Phyhd1  | 0.18938806 | 2.26409937 | 0.35216542 | 0.55957195 | 0.46091443 |
| Cdkl3   | 0.12343689 | 3.66734289 | 0.35198406 | 0.5596722 | 0.46095825 |
| Tmed3   | 0.18573144 | 2.97606323 | 0.35158346 | 0.55989377 | 0.46107991 |
| Mir124a-2 | 0.45566855 | -0.8553492 | 0.35154679 | 0.55991406 | 0.46107991 |
| Eif3h   | -0.0958331 | 6.19535446 | 0.35126907 | 0.56006778 | 0.4611391 |
| Cdh12   | 0.12059554 | 6.34900079 | 0.35124683 | 0.56008009 | 0.4611391 |
| Anln    | 0.08288198 | 4.85821024 | 0.35092916 | 0.56025603 | 0.4611895 |
| Mrps28  | 0.14547047 | 2.96171414 | 0.35087383 | 0.56028668 | 0.4611895 |
| Abca8a  | 0.19092614 | 2.39900376 | 0.35077122 | 0.56034354 | 0.4611895 |
| Hif1an  | 0.12581743 | 4.74848081 | 0.35077001 | 0.56034421 | 0.4611895 |
| Yif1a   | -0.2514158 | 1.70687004 | 0.35071135 | 0.56037672 | 0.4611895 |
| Rcl1    | -0.2080889 | 2.11762534 | 0.35022527 | 0.56064626 | 0.46137257 |
| Cpt2    | -0.1314991 | 3.28725638 | 0.34978444 | 0.56089092 | 0.46152406 |
| Ppapdc3  | -0.1895795 | 2.36618951 | 0.34962151 | 0.5609814 | 0.46152406 |
| 3425401B19 | -0.2144154 | 3.75183628 | 0.34957687 | 0.56100619 | 0.46152406 |
| Timm17b | 0.26349213 | 2.74288703 | 0.34955415 | 0.56101881 | 0.46152406 |
| Nde1    | -0.1644315 | 3.81609371 | 0.3493987 | 0.56110518 | 0.46155634 |
| Dnajc19  | -0.0990681 | 4.74616253 | 0.34880873 | 0.56143318 | 0.46178738 |
| Gnb5    | -0.0893428 | 6.22872661 | 0.34862224 | 0.56153695 | 0.46183394 |
| Gene      | Amd1  | 2310033P09I | Pdgfb | Rdh11 | Tce2 | Mbnl3 | Dnmbp | Fam136a | BC049635 | Zfp606 | Mrps34 | Galnt6 | Zbtb21 | Zfp442 | Khl32 | Apoo | Akt3 | Lrrc4c | Nudt22 | Eno3  | Ptgs1 | Rpusd4 | BC026585 | Ppp6r3 | Pkd2  | Rbm11 | Chek1 | Haus1 | Prr4  | Cwc27 | Zfp521 | Crispld2 | Lace1 | Btk  | Plgrkt | D630041G03 | Fam210b | Zfpl1 | Zfp955b | Muc1  | Prss23 | 3300021O8R | Amd1  |
|-----------|-------|-------------|-------|-------|------|-------|-------|--------|---------|--------|--------|--------|--------|--------|-------|------|------|-------|--------|-------|-------|------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|-------|--------|
|           | -0.092549 | 5.20567585 | 0.34845473 | 0.56163019 | 0.46187185 |         |       |        |         |       |       |       |        |       |       |      |      |       |       |    0.1031697 | 4.59360883 | 0.34692921 | 0.56248068 | 0.4622202 |       |       |        |       |      |       |     5.83765315 | 2.51937251 |      |     0.34230507 |       |       |     0.34219776 |
|           | -0.1537788 | 3.12529055 | 0.34829086 | 0.56172142 | 0.4619081 |       |       |        |         |       |       |       |        |       |       |      |      |       |       |    0.1978315 | 2.23334722 | 0.34816662 | 0.56179061 | 0.46192622 |       |       |        |       |      |       |     0.13641217 | 0.41594201 |      |     0.34242303 |       |       |     0.1636389 |       |
| Gene       | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Rhobt2     | 0.07409834 | 5.37579515 | 0.34217236 | 0.56514908 | 0.46309389 |
| Igf5       | -1.0580606 | -1.9997255 | 0.34195765 | 0.56527011 | 0.46315432 |
| Sfn        | 0.59078471 | -1.1509467 | 0.34175547 | 0.56538413 | 0.46320899 |
| Gltpd2     | 0.86015272 | -1.9420875 | 0.34157127 | 0.56548805 | 0.46322312 |
| Rps11      | -0.1267946 | 6.85286099 | 0.3414896 | 0.56553414 | 0.46322312 |
| Cenpa      | -0.3528929 | 1.06374212 | 0.34147346 | 0.56554325 | 0.46322312 |
| Ncaph2     | 0.09489564 | 4.2766549 | 0.34124243 | 0.56567366 | 0.46327845 |
| Cyr1       | 0.50848273 | 0.36582894 | 0.34118624 | 0.56570539 | 0.46327845 |
| 4930506M07 | 0.07921707 | 5.40685335 | 0.34088129 | 0.56587765 | 0.46338078 |
| Ifrd1      | -0.0958043 | 5.97236501 | 0.3406919 | 0.56598468 | 0.46342968 |
| Pcdhgb6    | 0.19012603 | 2.14496782 | 0.34036896 | 0.56616728 | 0.46354045 |
| Pptc7      | -0.0671821 | 6.66629707 | 0.34011908 | 0.56630865 | 0.46361744 |
| Lepr       | 0.12400838 | 5.63711491 | 0.33987126 | 0.56644892 | 0.46369352 |
| Zfp644     | -0.0865294 | 7.40811311 | 0.33971244 | 0.56653886 | 0.46370317 |
| Dnajc6     | 0.07765006 | 8.53886935 | 0.33968326 | 0.56655539 | 0.46370317 |
| Clec4a2    | -0.4260626 | -0.2856982 | 0.33889306 | 0.56700329 | 0.46398404 |
| Sp5        | 0.43484079 | 1.50954197 | 0.33884222 | 0.56703214 | 0.46398404 |
| Resp18     | -0.1211026 | 3.1582388 | 0.33882403 | 0.56704245 | 0.46398404 |
| Nod1       | 0.19156334 | 2.07213642 | 0.33874372 | 0.56708802 | 0.46398404 |
| Mavs       | -0.1759256 | 4.855431 | 0.33832569 | 0.56732533 | 0.46413943 |
| Gtf3c2     | 0.09666349 | 6.34947437 | 0.33822539 | 0.5673823 | 0.46414727 |
| Otub1      | -0.1307715 | 5.7233998 | 0.33810194 | 0.56745243 | 0.46416588 |
| Kat2a      | -0.0828685 | 5.89910999 | 0.33790496 | 0.56756436 | 0.46420654 |
| Tmub2      | -0.1175368 | 3.40390632 | 0.33782222 | 0.56761114 | 0.46420654 |
| Unc119     | -0.2372198 | 1.76904327 | 0.33773102 | 0.56766325 | 0.46420654 |
| Prtg       | 0.2109645 | 1.53552983 | 0.33768099 | 0.5676917 | 0.46420654 |
| Aldh4a1    | -0.126832 | 4.20524868 | 0.33755173 | 0.56776521 | 0.46422789 |
| Alx1       | -0.3138233 | 2.53238733 | 0.33733845 | 0.56788655 | 0.46427429 |
| Zmynd15    | 0.36028428 | 0.33496792 | 0.33728539 | 0.56791674 | 0.46427429 |
| Zfp382     | -0.1252464 | 4.01271086 | 0.33704063 | 0.56805607 | 0.46434943 |
| Ddx27      | -0.0938804 | 4.1812579 | 0.3368735 | 0.56815124 | 0.46438848 |
| 1700037H04 | -0.1252509 | 4.31945239 | 0.33676257 | 0.56821443 | 0.46440137 |
| Ggact      | 0.13901456 | 5.86444957 | 0.33629579 | 0.56848048 | 0.46458005 |
| Smoc1      | -0.1332212 | 4.56734441 | 0.33584546 | 0.56873738 | 0.46456231 |
| S1c35f4    | -0.1551222 | 2.69234322 | 0.33570947 | 0.56881501 | 0.46456231 |
| Ltbp2      | -0.7180605 | -1.1453635 | 0.33569368 | 0.56882403 | 0.46456231 |
| Gpr173     | 0.15854685 | 2.88554124 | 0.33568569 | 0.56882895 | 0.46456231 |
| Sp6        | 0.59667814 | -0.8815398 | 0.33565588 | 0.5688456 | 0.46456231 |
| Loxl1      | 0.23464812 | 1.84589249 | 0.33562662 | 0.56886231 | 0.46456231 |
| Gna15      | 0.86060805 | -1.6031651 | 0.33555895 | 0.56890095 | 0.46456231 |
| Mfsd12     | 0.59225319 | -1.2930054 | 0.33535509 | 0.56901739 | 0.46470866 |
| Rabep2     | -0.1928918 | 2.27559331 | 0.33505802 | 0.56918716 | 0.4647767 |
| Lrig2      | 0.08859789 | 5.05686369 | 0.33498218 | 0.56923052 | 0.4647767 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Gm3383 | 0.33124464 | -0.2915731 | 0.3349221 | 0.56926487 | 0.4647767 |
| Tbl2   | 0.11378625 | 3.49257687 | 0.33484888 | 0.56930674 | 0.4647767 |
| Dennd4c| -0.0857546 | 6.04642157 | 0.33479432 | 0.56933794 | 0.4647767 |
| Wfdc1  | -0.2644869 | 2.89032144 | 0.33470543 | 0.56938879 | 0.46477947 |
| 2610002M06 | 0.06497354 | 7.06876313 | 0.3340985 | 0.56961517 | 0.46492552 |
| Dbx2   | -0.175399 | 1.98242717 | 0.33408573 | 0.5697435 | 0.46498174 |
| Fhl1   | -0.0723044 | 7.70582581 | 0.33402378 | 0.56977899 | 0.46498174 |
| Tmc6   | 0.33408157 | 0.25957773 | 0.33390719 | 0.56984579 | 0.46499405 |
| Ms4a6c | 0.33338852 | 0.37829737 | 0.33379369 | 0.56991082 | 0.46499405 |
| Foxd1  | -0.1605629 | 5.52951661 | 0.33374891 | 0.56993649 | 0.46494045 |
| 4933430I17R | -0.6970223 | -1.6878358 | 0.33329799 | 0.57019505 | 0.46512902 |
| Ids    | -0.0807349 | 9.64471167 | 0.33329479 | 0.57019689 | 0.46512902 |
| Nkain4 | -0.2711655 | 1.74106904 | 0.33261917 | 0.57058474 | 0.46535719 |
| 4930563E22 | 0.38150352 | 0.91985291 | 0.33261768 | 0.57058559 | 0.46535719 |
| Zfp532 | 0.07848799 | 5.64739454 | 0.33255931 | 0.57061912 | 0.46535719 |
| Ddit4l | -0.0838846 | 4.93093377 | 0.33192091 | 0.57098614 | 0.46561774 |
| Npl    | -0.2708014 | 1.59114051 | 0.33137875 | 0.5712982 | 0.46577659 |
| Myo5c  | -0.3520833 | 1.43219009 | 0.33124876 | 0.57137306 | 0.46577659 |
| Tram1l1| 0.10756056 | 4.25816909 | 0.33122394 | 0.57138736 | 0.46577659 |
| Cc1    | 0.09081809 | 4.8060253 | 0.33107115 | 0.5714754 | 0.46577659 |
| Gm14634| 0.40384569 | -0.1042854 | 0.33105237 | 0.57148622 | 0.46577659 |
| Esrra  | -0.2124718 | 2.04728223 | 0.33104813 | 0.57148867 | 0.46577659 |
| Tmem71 | 0.53024035 | 0.03806179 | 0.33100453 | 0.57151379 | 0.46577659 |
| Ap3s1  | -0.0904152 | 7.18832894 | 0.33022409 | 0.57196394 | 0.46610467 |
| Slc7a6os| -0.1354726 | 3.9736553 | 0.33009573 | 0.57203805 | 0.46612628 |
| Jak1   | 0.0759038 | 7.64637337 | 0.3298833 | 0.57216073 | 0.46613978 |
| Tusc3  | -0.0906544 | 4.91653902 | 0.32985224 | 0.57217867 | 0.46613978 |
| Nrde2  | 0.21974656 | 2.0474504 | 0.32981987 | 0.57219738 | 0.46613978 |
| Tmem238| -0.3965209 | -0.4145217 | 0.32940395 | 0.57243776 | 0.46625267 |
| Sec1   | -0.3942306 | -0.0709414 | 0.32934822 | 0.57246999 | 0.46625267 |
| Rap1a  | -0.0936191 | 8.59777155 | 0.32933307 | 0.57247875 | 0.46625267 |
| Dnajb9 | 0.10909809 | 5.83039723 | 0.32916119 | 0.57258719 | 0.4662922 |
| Lactb  | -0.1115793 | 3.6918282 | 0.32908456 | 0.5726225 | 0.4662922 |
| Cbwd1  | 0.10810223 | 4.13995644 | 0.32871407 | 0.57283694 | 0.46640672 |
| Ccnt1  | 0.0883636 | 6.30201614 | 0.32867708 | 0.57285836 | 0.46640672 |
| Wdr83os| -0.1168366 | 5.70252191 | 0.32832837 | 0.57306036 | 0.46650285 |
| Adrb2  | -0.2559819 | 2.24218647 | 0.32830884 | 0.57307168 | 0.46650285 |
| Rb1cc1 | 0.08939438 | 8.50531799 | 0.32815712 | 0.57315961 | 0.46653566 |
| Napsa  | -0.6346885 | -0.6509732 | 0.32772072 | 0.5734127 | 0.46668508 |
| Mbd4   | 0.13719148 | 4.40401113 | 0.32766739 | 0.57344364 | 0.46668508 |
| Poldip3| -0.1015986 | 5.76822409 | 0.32754528 | 0.57351451 | 0.46668508 |
| Lgi3   | -0.1328364 | 3.63126066 | 0.32751213 | 0.57353375 | 0.46668508 |
| Lamp2  | 0.11386516 | 7.76757349 | 0.32704774 | 0.57380343 | 0.46686573 |
| Gene    | Mean | SD  | Genotype | Mean | SD  | Genotype |
|---------|------|-----|----------|------|-----|----------|
| Rbm12   | -0.0801929 | 5.25852923 | 0.32671828 | 0.57399491 | 0.46696976 |
| Dmp1    | 0.39872147 | 0.28825488 | 0.32665872 | 0.57402954 | 0.46696976 |
| Nr2f2   | 0.09111228 | 7.60255619 | 0.32658175 | 0.5740743 | 0.46696976 |
| Erp44   | -0.1098735 | 4.53609662 | 0.32621703 | 0.57428648 | 0.46710356 |
| Pla2g6  | 0.15484904 | 2.71901809 | 0.32592196 | 0.57445826 | 0.46720449 |
| Cenpl   | -0.1923379 | 1.72929489 | 0.32582427 | 0.57451516 | 0.46721197 |
| Cxcr4   | 0.62990522 | -1.3127137 | 0.32566592 | 0.5746074 | 0.46724819 |
| C030037D09 | 0.29550577 | 1.34915979 | 0.32523115 | 0.57486083 | 0.46741547 |
| Ubn1    | 0.07684391 | 5.81141917 | 0.32506625 | 0.57495701 | 0.46745487 |
| Gc      | 0.9510412 | -2.7059228 | 0.32659822 | 0.57518733 | 0.46760331 |
| Ubr7    | 0.07963587 | 4.90069223 | 0.3242167 | 0.57545304 | 0.4677649 |
| Smurf1  | 0.0900873 | 5.13253771 | 0.32409188 | 0.57552599 | 0.4677649 |
| Arnt    | -0.0800869 | 6.02241584 | 0.32406831 | 0.57553977 | 0.4677649 |
| Nkrf    | 0.11145507 | 5.84414015 | 0.32397038 | 0.57559703 | 0.4677649 |
| B4galt7 | 0.27691944 | 1.05384379 | 0.32392276 | 0.57562487 | 0.4677649 |
| Gm11744 | -0.4640104 | -0.4086737 | 0.32355754 | 0.57582797 | 0.46787136 |
| Tomm70a | -0.059018 | 7.12662431 | 0.3235284 | 0.57585556 | 0.46787136 |
| Pdhx    | 0.08171014 | 5.1461394 | 0.32341037 | 0.57592464 | 0.46787136 |
| Nfkb2   | 0.40764571 | 0.95481219 | 0.32337229 | 0.57594693 | 0.46787136 |
| Gm13034 | 0.52152024 | -1.6862613 | 0.32303768 | 0.57614288 | 0.46799173 |
| Hes5    | 0.21319719 | 1.57656207 | 0.32289596 | 0.57622591 | 0.46802036 |
| Zfp78   | 0.16563456 | 2.73225711 | 0.32252195 | 0.57644516 | 0.46815962 |
| Fn3krp  | -0.0981263 | 4.38382354 | 0.32205139 | 0.57672124 | 0.46834501 |
| F730043M15 | -0.2570559 | 0.97539026 | 0.32170636 | 0.57692385 | 0.46845198 |
| C1qtnf2 | 0.30685128 | 1.96562314 | 0.3216642 | 0.57694861 | 0.46845198 |
| Gm996   | 0.1169849 | 4.57695993 | 0.32147702 | 0.5770586 | 0.46847939 |
| Rcor2   | 0.22843531 | 1.62983719 | 0.32142672 | 0.57708816 | 0.46847939 |
| Dera    | -0.2365336 | 2.55249595 | 0.32136259 | 0.57712586 | 0.46847939 |
| Ddx11   | -0.4100599 | 1.0747502 | 0.32116239 | 0.57724357 | 0.46852095 |
| Fam122b | -0.0995918 | 4.12560287 | 0.32111284 | 0.57727271 | 0.46852095 |
| St6gal1 | -0.128186 | 6.19199686 | 0.32079262 | 0.57746111 | 0.46863502 |
| Eif3    | 0.19081608 | 2.29649561 | 0.3206897 | 0.57752169 | 0.46864536 |
| Ifit3   | -0.1451604 | 5.94234365 | 0.32054988 | 0.577604 | 0.46867333 |
| Tmem260 | 0.13080092 | 3.77287118 | 0.32017936 | 0.57782226 | 0.46879916 |
| A330009N23 | 0.28444358 | 1.21981126 | 0.32005833 | 0.57789359 | 0.46879916 |
| Mical2  | -0.0817183 | 8.91771607 | 0.32004296 | 0.57790265 | 0.46879916 |
| Psd2    | -0.1160535 | 4.92517248 | 0.31987177 | 0.57800358 | 0.46881094 |
| Retn    | 0.69178117 | -1.5550005 | 0.31963809 | 0.5781414 | 0.46881094 |
| Swt1    | -0.1092052 | 4.57133182 | 0.31960945 | 0.5781583 | 0.46881094 |
| Acot4   | -0.42474 | 0.0646272 | 0.31958708 | 0.5781715 | 0.46881094 |
| C130060C02I | 0.36178463 | 0.02592742 | 0.31952671 | 0.57820712 | 0.46881094 |
| Fgfr4   | 0.42536644 | -0.6655554 | 0.31949185 | 0.57822769 | 0.46881094 |
| Gcc1    | 0.09667618 | 4.93927588 | 0.31945032 | 0.5782522 | 0.46881094 |
| Protein  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 |
|---------|--------|--------|--------|--------|--------|--------|--------|
| Inpp5e  | -0.0842788 | 6.1173063 | 0.31926934 | 0.57835903 | 0.46885875 |
| Nckipsd | 0.1765571 | 2.12545968 | 0.31906789 | 0.57847799 | 0.46891638 |
| Cstf2t  | -0.1548238 | 3.19488316 | 0.31884522 | 0.57860954 | 0.4689842 |
| Frmpd4  | -0.7175337 | -1.234143 | 0.31867076 | 0.57871266 | 0.46902897 |
| Gsdmd   | -0.207015 | 2.29812276 | 0.31849737 | 0.57881517 | 0.46907324 |
| Ftsj3   | 0.09381476 | 5.00058319 | 0.31829808 | 0.57893304 | 0.46909975 |
| Ccdc71l | -0.0938848 | 5.24140435 | 0.31828013 | 0.57894366 | 0.46909975 |
| 1700001O22 | 0.29446784 | 0.38566742 | 0.31790482 | 0.57916579 | 0.46922054 |
| Ppm1l  | 0.11771056 | 4.72174536 | 0.31782397 | 0.57921367 | 0.46922054 |
| Apoa1bp | 0.11772004 | 3.85453329 | 0.31778551 | 0.57923644 | 0.46922054 |
| Marveld1 | -0.1599098 | 4.34164061 | 0.31769174 | 0.57929198 | 0.46922672 |
| Ascf3   | 0.22983359 | 1.50699388 | 0.31713973 | 0.57961915 | 0.46945291 |
| Usp1   | -0.08718 | 5.3274602 | 0.31693603 | 0.57973998 | 0.46951195 |
| Fam151b | 0.21797943 | 1.36776781 | 0.31671124 | 0.57987338 | 0.46957095 |
| Vps33a  | -0.0806825 | 6.28335802 | 0.31665172 | 0.57990871 | 0.46957095 |
| Nup210l | -0.6235212 | -0.3714807 | 0.31612823 | 0.58021964 | 0.46978379 |
| Trp63   | -0.2203877 | 2.24132109 | 0.31603969 | 0.58027226 | 0.46978379 |
| 1700019G17 | -0.2669248 | 1.04324127 | 0.31596706 | 0.58031544 | 0.46978379 |
| Ccsap  | 0.1355423 | 3.95722994 | 0.31554593 | 0.58056591 | 0.46994724 |
| Senp8  | 0.09740912 | 4.61752894 | 0.31546629 | 0.5806133 | 0.46994724 |
| Zbttb14 | 0.09347193 | 5.14679904 | 0.31530125 | 0.58071154 | 0.46998128 |
| Lta4h  | 0.08937307 | 4.27326009 | 0.31523443 | 0.58075131 | 0.46998128 |
| Adk    | 0.09589955 | 4.8192347 | 0.3147282 | 0.5810529 | 0.47015743 |
| Zmiz1  | 0.07187397 | 8.34258388 | 0.31463653 | 0.58110754 | 0.47015743 |
| Paps2  | 0.10439387 | 5.79153678 | 0.3146274 | 0.58111298 | 0.47015743 |
| Cs2ra  | 0.14421891 | 3.82945891 | 0.31404684 | 0.5814593 | 0.47037086 |
| Ddx56  | -0.1683303 | 3.08038876 | 0.3140242 | 0.58147282 | 0.47037086 |
| Ccdc19 | 0.19377677 | 2.03876038 | 0.3139224 | 0.58153359 | 0.47038118 |
| Mal    | -0.1028975 | 6.0909116 | 0.31374029 | 0.58164234 | 0.4704303 |
| Raf1   | -0.0860551 | 4.73108242 | 0.31348413 | 0.58179539 | 0.47051523 |
| Zfp827 | 0.07817768 | 6.30042239 | 0.31325882 | 0.58193007 | 0.47054766 |
| Prpsa1  | -0.0728565 | 4.70373033 | 0.31325631 | 0.58193157 | 0.47054766 |
| Hid1   | -0.0808624 | 6.11254569 | 0.3130924 | 0.58202958 | 0.47058807 |
| Krt80  | -0.1779475 | 5.34297797 | 0.31294043 | 0.58212049 | 0.47062273 |
| Mical1 | -0.164664 | 2.58725045 | 0.31259951 | 0.58232454 | 0.47073347 |
| 4931406C07l | -0.1084643 | 6.65583506 | 0.31255099 | 0.58235359 | 0.47073347 |
| Col3a1 | -0.1420386 | 5.0592517 | 0.31232191 | 0.58249079 | 0.47080553 |
| Frmpd4 | 0.08821935 | 7.77636696 | 0.31184046 | 0.58277936 | 0.4709999 |
| Cstf2t | 0.06601693 | 6.61119104 | 0.31171541 | 0.58285437 | 0.47102166 |
| Zfp14  | 0.15212849 | 3.10914981 | 0.31153547 | 0.58296233 | 0.47106523 |
| Musk   | -0.1475994 | 3.43332663 | 0.31137574 | 0.58305819 | 0.47106523 |
| Nckipsd | 0.11898994 | 4.12030892 | 0.31133498 | 0.58308266 | 0.47106523 |
| Inpp5e | -0.0852191 | 5.0308167 | 0.31130502 | 0.58310064 | 0.47106523 |
| Gene       | Score1  | Score2  | Score3  | Score4  | Score5  | Score6  |
|------------|---------|---------|---------|---------|---------|---------|
| Syt3       | 0.13917848 | 3.66352254 | 0.31102939 | 0.58326618 | 0.47113004 |
| Cyp2j9     | 0.19410362 | 2.44796972 | 0.31101126 | 0.58327707 | 0.47113004 |
| Nek3       | 0.28281684 | 0.95365832 | 0.31076726 | 0.58342368 | 0.47120821 |
| Cr1l       | -0.1054434 | 5.40021269 | 0.31053234 | 0.58356492 | 0.47120821 |
| Gm5607     | 0.15507464 | 3.8160498 | 0.31029649 | 0.58370679 | 0.47120821 |
| Zfp74      | -0.1006702 | 5.97278665 | 0.31019298 | 0.58376907 | 0.47120821 |
| Nr3c1      | 0.05911782 | 7.2766846 | 0.31014416 | 0.58379845 | 0.47120821 |
| Map2k7     | -0.1133584 | 5.36639003 | 0.31013251 | 0.58380547 | 0.47120821 |
| Xrcc2      | -0.1936446 | 2.5538066 | 0.31012965 | 0.58380719 | 0.47120821 |
| A930003A15 | -0.8042354 | -1.9242753 | 0.31012718 | 0.58380867 | 0.47120821 |
| Slic38a5   | -0.5783588 | -1.1945764 | 0.31007491 | 0.58380404 | 0.47120821 |
| Des1       | -0.0734065 | 5.52702697 | 0.31003886 | 0.58386184 | 0.47120821 |
| Tmem196    | 0.12872005 | 3.16291533 | 0.30997048 | 0.583903  | 0.47120821 |
| Vps18      | -0.126934 | 3.64210523 | 0.30958326 | 0.58413624 | 0.47129551 |
| Sike1      | -0.0666816 | 6.60274024 | 0.30956255 | 0.58414872 | 0.47129551 |
| Slic38a5   | 0.28824148 | 0.70757999 | 0.30950667 | 0.58418239 | 0.47129551 |
| Plcd3      | -0.1371122 | 3.08169908 | 0.30939957 | 0.58424694 | 0.47129551 |
| Gpatch2l   | -0.0805366 | 5.15068383 | 0.30927853 | 0.58431992 | 0.47129551 |
| Gramd2     | -0.4552684 | -0.4528712 | 0.30899702 | 0.58448971 | 0.47129551 |
| Irf8       | -0.2252245 | 1.6282917 | 0.30887184 | 0.58456525 | 0.47129551 |
| Mgmt       | -0.3565544 | -0.09654 | 0.30886004 | 0.58456875 | 0.47129551 |
| Gdap1      | 0.10623119 | 7.46345264 | 0.30885506 | 0.58457538 | 0.47129551 |
| 4930529MOE | -0.6065089 | -0.9366219 | 0.30877385 | 0.58462439 | 0.47129551 |
| Fbxl7      | -0.1433216 | 6.20230065 | 0.30861004 | 0.58472329 | 0.47129551 |
| Gm20110    | 0.65039404 | -1.7276857 | 0.30854999 | 0.58475955 | 0.47129551 |
| Tirap      | -0.1391811 | 4.4284544 | 0.30852443 | 0.58477499 | 0.47129551 |
| Cacng7     | -0.0874448 | 5.83701289 | 0.30851281 | 0.584782  | 0.47129551 |
| Kptn       | 0.21141278 | 1.85330009 | 0.30850996 | 0.58478372 | 0.47129551 |
| Pfkb1      | -0.4128055 | -0.0473381 | 0.30849353 | 0.58479365 | 0.47129551 |
| Zfp275     | 0.08831519 | 5.65090821 | 0.30843481 | 0.58482912 | 0.47129551 |
| Stt3a      | 0.08633902 | 5.16260031 | 0.30805151 | 0.58506074 | 0.47143944 |
| Pex2       | -0.124766 | 4.2015927 | 0.30797999 | 0.58510398 | 0.47143944 |
| Shank3     | 0.11381973 | 4.59092802 | 0.30773382 | 0.58525287 | 0.47152062 |
| Dlec1      | 0.67288345 | -0.3980741 | 0.30752826 | 0.58537726 | 0.47157994 |
| Taf1a      | 0.14354498 | 3.23536216 | 0.30739897 | 0.58545551 | 0.47157994 |
| Creg2      | 0.08923426 | 7.62972907 | 0.30730083 | 0.58551494 | 0.47157994 |
| 6330416G13 | -0.115787 | 3.76233321 | 0.307294 | 0.58551907 | 0.47157994 |
| Ifit2      | -0.10883 | 5.61040824 | 0.3069924 | 0.58570176 | 0.47166814 |
| Sfb3b1     | 0.06901923 | 8.28905656 | 0.30695423 | 0.58572489 | 0.47166814 |
| Esrrb      | -0.4852309 | -0.3614553 | 0.30683428 | 0.58579758 | 0.4716879 |
| Amdhd1     | 0.66234082 | -1.7095124 | 0.30669716 | 0.58588071 | 0.47171606 |
| Rps6kb1    | 0.06614488 | 7.12851419 | 0.30648195 | 0.58601122 | 0.47177753 |
| Arhgap17   | -0.1092582 | 4.57259103 | 0.30641244 | 0.58605339 | 0.47177753 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Zfp395 | -0.1121592 | 6.06510323 | 0.30629062 | 0.58612731 | 0.47179826 |
| Gm14420 | -0.0907855 | 5.40322491 | 0.30690670 | 0.58624539 | 0.47184406 |
| Mrps5 | -0.1569444 | 2.91157501 | 0.30603817 | 0.58628054 | 0.47184406 |
| Col15a1 | -0.2712513 | 1.46629283 | 0.30587493 | 0.58637967 | 0.47185727 |
| Stxbp3b | -0.4020511 | -0.9580444 | 0.30585255 | 0.58639333 | 0.47185727 |
| Eif2s3x | 0.07142043 | 7.27309505 | 0.30559117 | 0.58655208 | 0.4718881 |
| Evl | 0.11718724 | 4.22198237 | 0.30557275 | 0.58656327 | 0.4718881 |
| Plekhm2 | 0.13894165 | 3.60509107 | 0.30555158 | 0.58657614 | 0.4718881 |
| Usp45 | -0.080645 | 6.85723407 | 0.30542167 | 0.58665511 | 0.47189286 |
| 8430429K09r | 0.11296864 | 4.21523201 | 0.30532575 | 0.58671343 | 0.47189286 |
| Slc18b1 | 0.11176849 | 5.13842079 | 0.30530414 | 0.58672657 | 0.47189286 |
| Fam78a | 0.32059398 | 0.64030231 | 0.30519601 | 0.58679234 | 0.471907 |
| Gyk | -0.1619372 | 4.36426834 | 0.30492739 | 0.58695578 | 0.47199969 |
| 2700089E24r | -0.0775431 | 8.43300585 | 0.30457716 | 0.58716902 | 0.47213241 |
| Usp40 | 0.10978351 | 4.56375978 | 0.30448007 | 0.58722816 | 0.47213879 |
| Olfm1b2 | 0.32633384 | 0.63137112 | 0.30440588 | 0.58727336 | 0.47213879 |
| Tmem231 | 0.12453262 | 2.88553283 | 0.30429865 | 0.58733871 | 0.47213972 |
| Jrk | 0.18153817 | 2.19497887 | 0.3042458 | 0.58737092 | 0.47213972 |
| Vipas39 | -0.0763368 | 4.82685102 | 0.303453 | 0.58785456 | 0.47248971 |
| Gm867 | -0.7605482 | -1.991753 | 0.30332722 | 0.58793136 | 0.47251267 |
| Bst1 | -0.6309944 | -1.3908768 | 0.30321298 | 0.58800114 | 0.47252998 |
| 06-Mar | 0.07412698 | 8.79093608 | 0.30293047 | 0.58817378 | 0.47262994 |
| Capn1 | -0.0928295 | 4.19335936 | 0.30280414 | 0.58825101 | 0.47265322 |
| Clp1 | 0.13876278 | 2.44874484 | 0.30270791 | 0.58830985 | 0.47265416 |
| Tagap | -0.1535232 | 2.53749694 | 0.30264441 | 0.58834868 | 0.47265416 |
| Eef1a2 | -0.0884186 | 5.59721423 | 0.30248646 | 0.58844531 | 0.47267288 |
| Diras2 | 0.0681077 | 8.13275265 | 0.30244857 | 0.5884685 | 0.47267288 |
| Uap1l1 | 0.23840971 | 4.09503862 | 0.30234743 | 0.58853039 | 0.47268384 |
| Kctd18 | -0.0899544 | 4.36837927 | 0.30225396 | 0.5885876 | 0.47269103 |
| Proz | 0.24310877 | 1.46770786 | 0.30175757 | 0.58889163 | 0.47286542 |
| Chchd1 | -0.1293047 | 3.59794453 | 0.30171509 | 0.58891767 | 0.47286542 |
| Frmpd1 | -0.1205425 | 2.76514959 | 0.30166304 | 0.58894957 | 0.47286542 |
| Nfic | -0.0863085 | 7.69138183 | 0.30151887 | 0.58903795 | 0.47287319 |
| Dcaf4 | -0.1332081 | 3.15447989 | 0.30148975 | 0.5890558 | 0.47287319 |
| AU041133 | -0.1515012 | 2.83217733 | 0.30136412 | 0.58913285 | 0.47289628 |
| Ccdc33 | -0.3355467 | 0.10981215 | 0.30125944 | 0.58919706 | 0.47290907 |
| Vdac1 | -0.0615315 | 8.05749857 | 0.30105743 | 0.58932101 | 0.47296754 |
| Gimap8 | 0.21201121 | 1.21229696 | 0.30098337 | 0.58936648 | 0.47296754 |
| Alpl | -0.1915611 | 3.38132943 | 0.30083743 | 0.58945607 | 0.4730069 |
| Zfp784 | 0.14214594 | 3.96359625 | 0.30051775 | 0.58965244 | 0.47308717 |
| Cls1 | 0.3469295 | 0.94045248 | 0.30045302 | 0.58969222 | 0.47308717 |
| Gm8179 | 0.57871268 | -0.1915981 | 0.30042614 | 0.58970873 | 0.47308717 |
| Limk1 | -0.1506768 | 2.85508073 | 0.29994864 | 0.59000236 | 0.47328396 |
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 | Value17 | Value18 | Value19 | Value20 | Value21 | Value22 | Value23 | Value24 | Value25 | Value26 | Value27 | Value28 | Value29 | Value30 | Value31 | Value32 | Value33 | Value34 | Value35 | Value36 | Value37 | Value38 | Value39 | Value40 | Value41 | Value42 | Value43 | Value44 | Value45 | Value46 | Value47 | Value48 | Value49 | Value50 | Value51 | Value52 | Value53 | Value54 | Value55 | Value56 | Value57 | Value58 | Value59 | Value60 | Value61 | Value62 | Value63 | Value64 | Value65 | Value66 | Value67 | Value68 | Value69 | Value70 | Value71 | Value72 | Value73 | Value74 | Value75 | Value76 | Value77 | Value78 | Value79 | Value80 | Value81 | Value82 | Value83 | Value84 | Value85 | Value86 | Value87 | Value88 | Value89 | Value90 | Value91 | Value92 | Value93 | Value94 | Value95 | Value96 | Value97 | Value98 | Value99 | Value100 | Value101 | Value102 | Value103 | Value104 | Value105 | Value106 | Value107 | Value108 | Value109 | Value110 | Value111 | Value112 | Value113 | Value114 | Value115 | Value116 | Value117 | Value118 | Value119 | Value120 | Value121 | Value122 | Value123 | Value124 | Value125 | Value126 | Value127 | Value128 | Value129 | Value130 | Value131 | Value132 | Value133 | Value134 | Value135 | Value136 | Value137 | Value138 | Value139 | Value140 | Value141 | Value142 | Value143 | Value144 | Value145 | Value146 | Value147 | Value148 | Value149 | Value150 | Value151 | Value152 | Value153 | Value154 | Value155 | Value156 | Value157 | Value158 | Value159 | Value160 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cd274  | 0.1409333 | 3.7659219 | 0.2931058 | 0.59424415 | 0.47497542 |
| Ankfn1 | 0.22102381 | 2.48226336 | 0.2928719 | 0.59438036 | 0.47504551 |
| Zcchc3 | -0.1148373 | 5.00157565 | 0.29269006 | 0.59450391 | 0.47510522 |
| 1110007C09I | -0.1870951 | 2.33907643 | 0.2924784 | 0.59463626 | 0.47513231 |
| Tcte2  | -0.1436047 | 2.88138795 | 0.29246491 | 0.5946447 | 0.47513231 |
| Ank1k  | 0.39496981 | -0.2694108 | 0.29240315 | 0.59468333 | 0.47513231 |
| Gas5   | 0.06234084 | 6.98860921 | 0.29224106 | 0.59478474 | 0.47515268 |
| Lcat   | 0.19181278 | 2.85756413 | 0.29212176 | 0.59485941 | 0.47515268 |
| Ube2cbp| 0.47381733 | 0.2999942 | 0.2920955 | 0.59487585 | 0.47515268 |
| Cryzl1 | -0.087099 | 5.36087716 | 0.29205237 | 0.59490285 | 0.47515268 |
| Ormd1  | 0.16801157 | 3.70147365 | 0.29196542 | 0.59495729 | 0.47515742 |
| Map2k1 | -0.0558708 | 7.71419502 | 0.29187485 | 0.595014 | 0.47516397 |
| Sst    | 0.09433535 | 6.90303756 | 0.29137848 | 0.59532511 | 0.47533947 |
| Cenpt  | 0.17124888 | 2.40118375 | 0.29136927 | 0.59533083 | 0.47533947 |
| Pigo   | 0.18840942 | 3.10018614 | 0.29124682 | 0.59540762 | 0.47536204 |
| Ms4a6b | -0.4564442 | 0.48023595 | 0.29083542 | 0.59566576 | 0.47552937 |
| Eno1b  | 0.06622884 | 6.04849842 | 0.29069767 | 0.59575229 | 0.47555969 |
| Drc1   | 0.12738802 | 3.18557905 | 0.29052895 | 0.59585821 | 0.47557572 |
| Zdhhc2 | -0.076226 | 5.21262082 | 0.29043079 | 0.59591988 | 0.47557572 |
| Setd3  | -0.054812 | 6.79583478 | 0.29040414 | 0.59593662 | 0.47557572 |
| AF251705| -0.4657691 | -0.5359717 | 0.29035648 | 0.59596657 | 0.47575725 |
| Ghr    | -0.1098311 | 5.29795125 | 0.29018669 | 0.5960733 | 0.47558805 |
| Pabpc4 | 0.08924471 | 3.89769323 | 0.29014875 | 0.59609718 | 0.47558805 |
| Chgb   | 0.08743286 | 9.20757245 | 0.29010019 | 0.59612768 | 0.47558805 |
| Ccddc4 | -0.1982069 | 1.59061397 | 0.28969616 | 0.59638184 | 0.47575207 |
| Myt1l  | 0.09220748 | 8.60644459 | 0.28959741 | 0.596444 | 0.47575304 |
| Gnai2  | -0.1291799 | 7.06060397 | 0.28953992 | 0.59648019 | 0.47575304 |
| Apbb3  | 0.18739647 | 2.08151078 | 0.28932381 | 0.59661628 | 0.47582284 |
| Gbp11  | -0.4368683 | -0.1374851 | 0.28908506 | 0.59676671 | 0.47590406 |
| Mthfd1l| 0.13809653 | 3.49817884 | 0.28876055 | 0.5969713 | 0.4759697 |
| Tgm3   | -0.1393442 | 2.62821885 | 0.28874767 | 0.59697942 | 0.4759697 |
| Cenph  | -0.4529608 | -0.5446331 | 0.2887233 | 0.59699479 | 0.4759697 |
| Nub1   | -0.0745909 | 5.30271563 | 0.28835583 | 0.59722666 | 0.47611581 |
| St5    | -0.1265666 | 4.99487358 | 0.28823362 | 0.59730382 | 0.47612355 |
| Khhl11 | 0.09954641 | 4.45954021 | 0.28818648 | 0.59733359 | 0.47612355 |
| Amigo3 | -0.5391684 | -0.5059474 | 0.28756676 | 0.59772521 | 0.47638041 |
| Snx16  | 0.0938666 | 4.76565689 | 0.28752266 | 0.5977531 | 0.47638041 |
| Tek5   | 0.33743813 | 0.32940631 | 0.28738271 | 0.59874163 | 0.47664122 |
| Tbc1d13| -0.1118207 | 4.34928635 | 0.28704905 | 0.59805279 | 0.47654171 |
| Lrrcc1 | 0.09065632 | 5.61702841 | 0.2868234 | 0.59815836 | 0.47657957 |
| Kans1l1| 0.08140055 | 5.50091368 | 0.28682035 | 0.59819762 | 0.47657957 |
| Mael   | -0.3686974 | 0.65600567 | 0.28647278 | 0.59841787 | 0.47670638 |
| Sos2   | 0.07091641 | 7.66871831 | 0.28635363 | 0.59849342 | 0.47670638 |
| Gene      | Value1  | Value2  | Value3  | Value4  | Value5    |
|-----------|---------|---------|---------|---------|-----------|
| Gck       | 0.45140688 | -0.9810828 | 0.2862906 | 0.5985339 | 0.47670638 |
| Cd300lb   | -0.7707592 | -1.3241389 | 0.28625785 | 0.59855416 | 0.47670638 |
| Senp3     | -0.0890782 | 4.80653401 | 0.28618539 | 0.59860013 | 0.47670638 |
| Ccdc113   | -0.2700803 | 1.09575397 | 0.28586501 | 0.59880344 | 0.47678013 |
| B4galnt2  | -0.1318217 | 3.39230077 | 0.28583862 | 0.59939355 | 0.47710386 |
| Ccr9      | -0.1431764 | 3.73349126 | 0.28618539 | 0.5992014 | 0.47699132 |
| Zbtb20    | 0.06939083 | 6.86083885 | 0.28493641 | 0.59993057 | 0.47730025 |
| Senp3     | -0.0890782 | 4.80653401 | 0.28618539 | 0.59860013 | 0.47670638 |
| Ccdc113   | -0.2700803 | 1.09575397 | 0.28586501 | 0.59880344 | 0.47678013 |
| B4galnt2  | -0.1318217 | 3.39230077 | 0.28583862 | 0.59939355 | 0.47710386 |
| Zbtb20    | 0.06939083 | 6.86083885 | 0.28493641 | 0.59993057 | 0.47730025 |
| Senp3     | -0.0890782 | 4.80653401 | 0.28618539 | 0.59860013 | 0.47670638 |
| Ccdc113   | -0.2700803 | 1.09575397 | 0.28586501 | 0.59880344 | 0.47678013 |
| B4galnt2  | -0.1318217 | 3.39230077 | 0.28583862 | 0.59939355 | 0.47710386 |
| Zbtb20    | 0.06939083 | 6.86083885 | 0.28493641 | 0.59993057 | 0.47730025 |
| Senp3     | -0.0890782 | 4.80653401 | 0.28618539 | 0.59860013 | 0.47670638 |
| Ccdc113   | -0.2700803 | 1.09575397 | 0.28586501 | 0.59880344 | 0.47678013 |
| B4galnt2  | -0.1318217 | 3.39230077 | 0.28583862 | 0.59939355 | 0.47710386 |
| Zbtb20    | 0.06939083 | 6.86083885 | 0.28493641 | 0.59993057 | 0.47730025 |
| Senp3     | -0.0890782 | 4.80653401 | 0.28618539 | 0.59860013 | 0.47670638 |
| Ccdc113   | -0.2700803 | 1.09575397 | 0.28586501 | 0.59880344 | 0.47678013 |
| B4galnt2  | -0.1318217 | 3.39230077 | 0.28583862 | 0.59939355 | 0.47710386 |
| Zbtb20    | 0.06939083 | 6.86083885 | 0.28493641 | 0.59993057 | 0.47730025 |
| Gene      | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|-----------|---------|---------|---------|---------|---------|---------|
| Dvl2      | -0.1539886 | 2.37289552 | 0.278579 | 0.60346739 | 0.47892967 |
| AU040320  | 0.11584179 | 4.17222439 | 0.27850672 | 0.60351405 | 0.47892967 |
| Slc35g2   | -0.1203194 | 3.02421412 | 0.27844318 | 0.60355508 | 0.47892967 |
| Tek1      | 0.43114647 | -0.1937425 | 0.27841515 | 0.60357317 | 0.47892967 |
| Rbmx1     | 0.08138761 | 5.34589188 | 0.27838581 | 0.60359212 | 0.47892967 |
| Gms141    | 0.15603617 | 3.06213134 | 0.27813057 | 0.603757 | 0.47892967 |
| Ranbp17   | 0.12396112 | 3.12490601 | 0.27810504 | 0.6037735 | 0.4789276 |
| D4300036j16f | 0.16486812 | 2.35604874 | 0.27806627 | 0.60379855 | 0.4789276 |
| Garem     | 0.09254174 | 4.79906231 | 0.2779927 | 0.6038461 | 0.4789276 |
| Eya3      | 0.08406777 | 5.04768282 | 0.27784906 | 0.60393896 | 0.47901087 |
| Pfkl      | -0.0991328 | 4.18051187 | 0.27773149 | 0.60401499 | 0.47903238 |
| Gpr123    | -0.0968116 | 6.43854164 | 0.27717151 | 0.6043774 | 0.479281 |
| Zfp148    | 0.06052979 | 7.82606425 | 0.27693622 | 0.60452982 | 0.47933402 |
| Bmpr1a    | -0.1005754 | 7.88324888 | 0.27691721 | 0.60454214 | 0.47933402 |
| Tbc1d22a  | 0.10576399 | 3.48816352 | 0.27678106 | 0.60463037 | 0.47936518 |
| Wnt7b     | 0.23929535 | 1.64236323 | 0.27664072 | 0.60472136 | 0.47939851 |
| Ncbo1     | 0.08199015 | 4.95959243 | 0.27649515 | 0.60481576 | 0.47941684 |
| Fam73b    | 0.10739639 | 3.66081619 | 0.27645415 | 0.60484236 | 0.47941684 |
| Tspan31   | -0.1123352 | 5.85510856 | 0.27616685 | 0.60502879 | 0.47948946 |
| Vgl13     | -0.1610588 | 2.95816261 | 0.27612378 | 0.60505674 | 0.47948946 |
| Plekh4g   | 0.37079963 | 1.36026031 | 0.27594243 | 0.6051745 | 0.47948946 |
| Ogfr      | -0.1866567 | 1.96457029 | 0.27587502 | 0.60521829 | 0.47948946 |
| Gm5547    | -0.8124821 | -1.9888501 | 0.27578672 | 0.60527564 | 0.47948946 |
| Tkt2      | -0.8684439 | -1.1117292 | 0.27577866 | 0.60528088 | 0.47948946 |
| Gsk3b     | 0.05736335 | 9.51769032 | 0.27573265 | 0.60531078 | 0.47948946 |
| 9430041j12f | 0.2349042 | 1.8680772 | 0.27567634 | 0.60534737 | 0.47948946 |
| Piggq     | -0.0738726 | 5.82510229 | 0.27557177 | 0.60541534 | 0.47948946 |
| Lef1      | -0.1035823 | 4.50686433 | 0.27554422 | 0.60543324 | 0.47948946 |
| Mast2     | 0.06550741 | 6.29563596 | 0.27544313 | 0.60549896 | 0.47948946 |
| Mkn2      | -0.0969027 | 3.96354222 | 0.27538788 | 0.60553489 | 0.47948946 |
| Eno2      | -0.0929892 | 8.48693367 | 0.27521104 | 0.60564991 | 0.47948946 |
| Chst1     | 0.08320268 | 5.89299389 | 0.2751903 | 0.60566341 | 0.47948946 |
| Armox3    | 0.05950909 | 7.26398778 | 0.27515904 | 0.60568375 | 0.47948946 |
| Cps6f     | 0.09845467 | 5.58266669 | 0.27499192 | 0.6057925 | 0.47948946 |
| Smpdl3a   | 0.11914827 | 4.81997081 | 0.27492775 | 0.60583428 | 0.47948946 |
| Antxr2    | -0.2202886 | 3.3378226 | 0.27490127 | 0.60585151 | 0.47948946 |
| Lage3     | -0.1446078 | 3.39926527 | 0.27488201 | 0.60586405 | 0.47948946 |
| Psrc1     | 0.20257043 | 1.47407062 | 0.27474803 | 0.6059513 | 0.47950572 |
| Pdgfa     | -0.075739 | 5.81482077 | 0.27470013 | 0.60598249 | 0.47950572 |
| G933427j22r | 0.69696317 | -1.2003321 | 0.27461854 | 0.60603565 | 0.47950904 |
| Grpel1    | -0.1025797 | 4.23880688 | 0.27428543 | 0.60625274 | 0.47964207 |
| Zfp846    | 0.12302891 | 3.9051803 | 0.27397062 | 0.60645806 | 0.47976506 |
| Trak2     | -0.0694665 | 6.83064815 | 0.27389692 | 0.60650616 | 0.47976506 |
| Protein   | 0.36941829 | 0.24639369 | 0.08400832 | 0.29209202 | 0.05996515 | 0.13905153 | 0.18575873 |
|-----------|------------|------------|------------|------------|------------|------------|------------|
| Vps16     | 0.13905153 | 4.44293353 | 0.2721805  | 0.6076285  | 0.48026502 |
| Srpk1     | -0.0641288 | 6.0743028  | 0.27187536 | 0.60782851 | 0.48038434 |
| 1600016N20| -0.4367548 | -0.9326504 | 0.27170884 | 0.60793771 | 0.4804064 |
| Olfr55    | -0.5988607 | -1.2121881 | 0.2716867  | 0.60795223 | 0.4804046 |
| Stk4      | 0.0592738  | 5.92312332 | 0.27150227 | 0.60807324 | 0.48046146 |
| Ascl4     | -0.635382  | -1.2625005 | 0.2711692  | 0.6082919  | 0.48053159 |
| 2010106C02D| 0.71567249 | -1.616105  | 0.27114625 | 0.60830697 | 0.48053159 |
| Kans1l    | -0.0542961 | 6.95826193 | 0.27114293 | 0.60830915 | 0.48053159 |
| Pacsin3   | -0.1235218 | 3.80814932 | 0.27087543 | 0.60848941 | 0.48062836 |
| Igflr1    | 0.52794924 | -0.7968711 | 0.27070318 | 0.60859814 | 0.48062836 |
| Akrlc18   | -0.2887269 | 1.31564521 | 0.27056637 | 0.60868811 | 0.48062836 |
| C2cd2l    | -0.097016  | 5.27762797 | 0.27052475 | 0.60871548 | 0.48062836 |
| Impact    | 0.05996515 | 7.83618296 | 0.27049224 | 0.60873687 | 0.48062836 |
| Cyp4f14   | 0.69059972 | -0.5174918 | 0.27046758 | 0.60875309 | 0.48062836 |
| Bsg       | -0.1439579 | 7.36556229 | 0.27043407 | 0.60877513 | 0.48062836 |
| Hist1h1c  | -0.2353732 | 2.87540411 | 0.27030914 | 0.60885734 | 0.48064575 |
| Mrgrp1    | 0.29209202 | 2.03239922 | 0.27025148 | 0.60889529 | 0.48064575 |
| Hist1h4a  | -0.5033898 | -1.4203992 | 0.27011386 | 0.60898589 | 0.48067853 |
| Ankrd12   | 0.08400832 | 9.70283078 | 0.26973418 | 0.60923599 | 0.48083718 |
| Gimap6    | 0.24639369 | 1.78011228 | 0.26958743 | 0.60933271 | 0.48085488 |
| Spp1      | 0.14715521 | 7.62210651 | 0.26955121 | 0.60935659 | 0.48085488 |
| Hist1h2ak | -0.5231989 | -1.7770005 | 0.26928282 | 0.6095336  | 0.48095582 |
| M6pr      | -0.0926608 | 6.22491652 | 0.26906485 | 0.60967743 | 0.48100803 |
| Asf1b     | 0.57122628 | -1.5884799 | 0.26903373 | 0.60969797 | 0.48100803 |
| Cby1      | -0.1860034 | 3.21791179 | 0.26857578 | 0.61000043 | 0.48120789 |
| Dach2     | 0.36941829 | 0.10560805 | 0.268364   | 0.61014041 | 0.48127955 |
| Dcst1     | -0.1967108 | 1.39971641 | 0.2682571  | 0.6102111  | 0.48128719 |
| Amfr      | -0.0780557 | 5.82024607 | 0.26820075 | 0.61024837 | 0.48128719 |
| Anxa11    | -0.0856507 | 3.947233  | 0.26766197 | 0.61060495 | 0.48152965 |
| Mrv1      | -0.1205903 | 5.83222849 | 0.26754885 | 0.61067988 | 0.48154997 |
| Dus1l     | -0.1479631 | 3.06335656 | 0.26733662 | 0.61082051 | 0.48162209 |
| Grip2     | 0.19225695 | 2.18847827 | 0.26719218 | 0.61091625 | 0.48165881 |
| Srsf2     | -0.0660011 | 8.34931977 | 0.26704209 | 0.61101578 | 0.48169851 |
| Zfp943    | 0.1238355  | 3.03883785 | 0.26695385 | 0.61107431 | 0.48170589 |
| Gene    | Expression Values |
|---------|-------------------|
| Smarca2 | 0.06196595 9.78810952 0.26673856 0.61121717 0.48176245 |
| Zfp217  | 0.15574597 3.61460677 0.26669749 0.61124443 0.48176245 |
| BC100451| -0.7866688 -1.5581313 0.26646779 0.61139695 0.48184388 |
| Sdhaf1  | -0.1500919 2.31989015 0.26634867 0.61147607 0.48184742 |
| Khl135  | -0.5251616 -0.7426236 0.26631294 0.61149981 0.48184742 |
| Traf2   | 0.21669277 1.32158657 0.26595816 0.61173563 0.48199446 |
| Gm6260  | -0.241552 1.52096462 0.26573186 0.61186615 0.48206651 |
| Hac1    | 0.16631666 2.44761928 0.26567273 0.61192549 0.48206651 |
| Trappc6a| 0.30258187 1.50051565 0.26543562 0.61208332 0.48212367 |
| Eepd1   | 0.13774525 2.48443429 0.26541583 0.6120965 0.48212367 |
| Pelo    | 0.12961272 3.1943276 0.26532406 0.6121576 0.48213303 |
| Klf16   | 0.12910039 2.45963519 0.26478281 0.6125183 0.48237338 |
| Zfp808  | -0.0899937 3.85726606 0.26471839 0.61256126 0.48237338 |
| Emcn    | 0.35522613 0.59230906 0.26443856 0.61274796 0.4824332 |
| Arl6ip6 | 0.09436688 4.59308749 0.26427686 0.6128559 0.4824332 |
| Adam8   | 0.57811213 -0.6615818 0.26424589 0.61287658 0.4824332 |
| Tmprss5 | 0.65505103 -1.6692367 0.26423958 0.6128808 0.4824332 |
| 9930487H11| -0.5689892 -1.2748223 0.26423555 0.61288348 0.4824332 |
| Npepl1  | -0.1792946 2.06684462 0.2640046 0.61303774 0.48246737 |
| Eif4g1  | 0.05753259 7.06173756 0.26399498 0.61304417 0.48246737 |
| 9930111J21F| 0.16033029 2.9542156 0.26394935 0.61307465 0.48246737 |
| Ppid    | -0.0679657 6.12373406 0.26382768 0.61315597 0.4824926 |
| Ncdn    | -0.0827674 8.21970628 0.26371835 0.61322904 0.48251134 |
| Scn10a  | 0.58304784 -1.6089936 0.26510024 0.61330227 0.48253019 |
| E130012A19| -0.1366051 2.9411 0.26317087 0.61359531 0.48264798 |
| Arid4a  | 0.08107569 7.65718291 0.26315178 0.61360809 0.48264798 |
| Rps6ka6 | 0.15871434 2.62959887 0.26312784 0.61362412 0.48264798 |
| Cog4    | 0.08828725 4.60369643 0.26309058 0.61364907 0.48264798 |
| Abhd17c | -0.0783168 5.2820418 0.26297761 0.61372472 0.48266873 |
| Tcf12   | -0.0801509 7.35152925 0.26286307 0.61380145 0.48269031 |
| Gm10125 | 0.2414736 1.01722952 0.26272267 0.61389552 0.48269653 |
| Slc6a14 | 0.72663532 -1.0287029 0.26270419 0.61390791 0.48269653 |
| Fndc7   | 0.78441278 -1.3887912 0.26241451 0.61410212 0.48275791 |
| Sult2b1 | -0.2890523 0.36922458 0.26235753 0.61414034 0.48275791 |
| Alkbh8  | 0.10580073 4.91475563 0.26231226 0.61417071 0.48275791 |
| Slc2a5  | -0.3658832 -0.6597049 0.26229376 0.61418311 0.48275791 |
| Leprot  | -0.1337617 5.01098668 0.26195519 0.61441035 0.48287579 |
| S1c1a1  | 0.08139275 6.01790734 0.26192342 0.61443168 0.48287579 |
| Gm15987 | -0.6218384 -1.7761642 0.26177351 0.61453235 0.48291617 |
| Polr1b  | 0.1990112 2.23088517 0.26168585 0.61459124 0.4829237 |
| Kcnf1   | 0.10100534 5.28870068 0.26159647 0.6146513 0.48293215 |
| Padi4   | 0.62687147 -2.0630303 0.2614501 0.61474969 0.48297071 |
| Psmd1   | 0.05386741 7.50243881 0.26109743 0.61498687 0.4831183 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 | Value 15 | Value 16 | Value 17 | Value 18 | Value 19 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Tgm4   | 0.23153649 | 1.23746859 | 0.26083165 | 0.61516574 | 0.48318132 |
| Aqp1   | 0.25008408 | 1.78608843 | 0.26042589 | 0.61543906 | 0.48333116 |
| 4930579G18 | 0.37044389 | 0.33076995 | 0.26039753 | 0.61545817 | 0.48333116 |
| Chmp1b | -0.0938959 | 5.41564145 | 0.26028105 | 0.61553669 | 0.48333116 |
| Clmp   | -0.1018286 | 6.01158504 | 0.26025556 | 0.61555388 | 0.48333116 |
| Gal    | 0.49803331 | -0.4440306 | 0.25965656 | 0.61595802 | 0.4834221 |
| Adam3  | -0.7201956 | -1.935804 | 0.26111471 | 0.6159622 | 0.4834221 |
| Kpn1   | -0.0614716 | 8.29382347 | 0.25958549 | 0.61600601 | 0.4834221 |
| Larp4  | 0.06281848 | 7.14921979 | 0.25954035 | 0.6160365 | 0.4834221 |
| Ap2b1  | 0.06623879 | 7.86662395 | 0.25952012 | 0.61605015 | 0.4834221 |
| Lrrc73 | -0.1685657 | 2.43181403 | 0.2595032 | 0.61606159 | 0.4834221 |
| Snord118 | -0.5417583 | -1.5551468 | 0.25949956 | 0.61606404 | 0.4834221 |
| Fip1l1 | -0.0566875 | 6.50639175 | 0.25949161 | 0.61606942 | 0.4834221 |
| Lpxn   | 0.59102394 | -1.4889475 | 0.25937895 | 0.61614552 | 0.4834221 |
| Thbs4  | -0.2752483 | 0.57915578 | 0.25930599 | 0.61619482 | 0.4834221 |
| Vsig2  | -0.1086055 | 3.29637463 | 0.25927972 | 0.61621258 | 0.4834221 |
| Npas2  | 0.12738107 | 5.29330213 | 0.25896486 | 0.61642545 | 0.48354944 |
| Spsb4  | 0.25246495 | 1.11843022 | 0.25889362 | 0.61647363 | 0.48354944 |
| Sgsm3  | 0.1142278 | 3.69861639 | 0.2588015 | 0.61653595 | 0.48355961 |
| Slc26a5 | 0.64107162 | -1.149165 | 0.25809304 | 0.61701571 | 0.48385249 |
| Lpcat3 | 0.12029727 | 3.53870214 | 0.25804067 | 0.61705122 | 0.48385249 |
| Rhbdf1 | -0.1805016 | 1.5426094 | 0.2580313 | 0.61705757 | 0.48385249 |
| Zbed4  | 0.11015281 | 4.47113745 | 0.25782361 | 0.61719839 | 0.48392238 |
| Hsf1   | 0.07449062 | 5.47374936 | 0.25768829 | 0.61729019 | 0.48392238 |
| Zcchc4 | 0.40091957 | -0.1139491 | 0.25753429 | 0.61739469 | 0.48392238 |
| Fjx1   | -0.0930454 | 4.08630098 | 0.25753298 | 0.61739558 | 0.48392238 |
| Atn1   | -0.0653771 | 7.89650302 | 0.2575148 | 0.61740792 | 0.48392238 |
| Gm14446 | 0.11388175 | 3.72874383 | 0.25743159 | 0.6174644 | 0.48392238 |
| Arl11  | 0.68207058 | -0.8594678 | 0.25739017 | 0.61749252 | 0.48392238 |
| Zfvyve20 | -0.0791428 | 5.76894164 | 0.25688049 | 0.61783878 | 0.48413348 |
| Tmem127 | 0.07262643 | 6.90098997 | 0.25672535 | 0.61794427 | 0.48413348 |
| Efnb2  | -0.0735841 | 6.13005427 | 0.2567063 | 0.61795723 | 0.48413348 |
| Cd72   | 0.43519359 | -0.3622226 | 0.25670283 | 0.61795959 | 0.48413348 |
| Tfdp1  | -0.0749759 | 6.37155299 | 0.25643329 | 0.61814296 | 0.48423841 |
| Brf2   | -0.2704917 | 0.70218386 | 0.25630872 | 0.61822776 | 0.48426611 |
| Creb3l2 | -0.1134574 | 5.98241077 | 0.25595278 | 0.61847018 | 0.4843958 |
| Gpt    | 0.33118148 | 0.46254604 | 0.25592042 | 0.61849223 | 0.4843958 |
| Nckap5l | -0.2132948 | 1.45412957 | 0.25570827 | 0.61863682 | 0.48447031 |
| Nfkb1  | 0.09164759 | 4.41632121 | 0.25561608 | 0.61869969 | 0.48448081 |
| L3mbt3 | -0.0945956 | 4.1829686 | 0.25526472 | 0.61893939 | 0.48462977 |
| Eftud1 | 0.12993691 | 3.10423985 | 0.25486537 | 0.61921209 | 0.48480454 |
| Fzd2   | 0.14219918 | 4.20920458 | 0.25478492 | 0.61926706 | 0.48480883 |
| Gene   | Rdx     | 0.06166886 | 7.03495233 | 0.25469601 | 0.61932783 | 0.48481765 |
|--------|---------|------------|------------|------------|------------|------------|
| Slc15a4| 0.15354719 | 2.35216293 | 0.25458491 | 0.61940377 | 0.48483836 |
| Bcl9   | 0.06654455 | 6.42996014 | 0.25440211 | 0.61952878 | 0.48489745 |
| Scml4  | -0.1205837 | 4.00497164 | 0.25403702 | 0.61977861 | 0.48503909 |
| Cln5   | -0.1243429 | 6.00046903 | 0.25394722 | 0.61984009 | 0.48503909 |
| Foxn3  | -0.0818098 | 6.54156047 | 0.25392065 | 0.61985829 | 0.48503909 |
| Cpne1  | 0.06966792 | 5.90281002 | 0.25351085 | 0.62013906 | 0.48519708 |
| Dnah9  | -0.2404911 | 1.50568372 | 0.2534814 | 0.62015926 | 0.48519708 |
| Rab11fip2 | 0.0593001 | 6.93761623 | 0.25324302 | 0.62032272 | 0.48528621 |
| Golm1  | -0.0976466 | 3.26257839 | 0.25310138 | 0.6204199 | 0.48529909 |
| Engase | 0.21520481 | 0.75839057 | 0.25307459 | 0.62043828 | 0.48529909 |
| Srprb  | 0.10902432 | 3.49806931 | 0.25280885 | 0.62062071 | 0.48540303 |
| Akap17b| 0.08069724 | 5.61061691 | 0.25247965 | 0.62084687 | 0.48554114 |
| Gid4   | 0.06287192 | 5.84590795 | 0.25237704 | 0.6209174 | 0.48555753 |
| Gimap3 | -0.1860964 | 2.71471156 | 0.25228807 | 0.62097857 | 0.4855666 |
| Sema5b | 0.18335677 | 3.53938769 | 0.25209011 | 0.62111472 | 0.4856343 |
| 09-Sep | 0.10590644 | 5.57392956 | 0.25186531 | 0.62126941 | 0.48571648 |
| Grp12  | 0.09529319 | 4.21739814 | 0.25170673 | 0.62137859 | 0.48574279 |
| C030029H02 | -0.2594276 | 1.08253575 | 0.25162683 | 0.62143362 | 0.48574279 |
| Ppere1 | -0.4267356 | -0.7102362 | 0.25157802 | 0.62146723 | 0.48574279 |
| Cbn2   | -0.1299797 | 3.41947887 | 0.25152287 | 0.62150523 | 0.48574279 |
| Plekhf2 | -0.1086861 | 4.63531593 | 0.25145153 | 0.62155438 | 0.48574279 |
| H2-Eb1 | 0.23198059 | 3.08413101 | 0.25137971 | 0.62160387 | 0.48574279 |
| Gbe1   | 0.09281628 | 3.96139429 | 0.25131249 | 0.6216502 | 0.48574279 |
| Acs15  | -0.0696714 | 5.63286945 | 0.25116681 | 0.62175063 | 0.48578252 |
| Ankd10 | 0.10188258 | 3.86599986 | 0.25106573 | 0.62182034 | 0.48579823 |
| Slc9b1 | 0.6795076 | -0.7893292 | 0.25085386 | 0.6219665 | 0.48584243 |
| Dcakd  | -0.120888 | 4.5004566 | 0.25078345 | 0.6220151 | 0.48584243 |
| Mtus1  | 0.06403 | 6.68441201 | 0.25073782 | 0.6220466 | 0.48584243 |
| Tig3   | 0.32551609 | -0.2656558 | 0.25067015 | 0.62209331 | 0.48584243 |
| Vamp4  | -0.0547678 | 6.82262268 | 0.25062439 | 0.6221249 | 0.48584243 |
| Pouf4  | 0.22272214 | 0.57012501 | 0.25036329 | 0.62230525 | 0.48594452 |
| Tmc4   | -0.112951 | 3.05233319 | 0.24955663 | 0.62286316 | 0.48634141 |
| Dnal4  | -0.1242028 | 2.43868295 | 0.24914393 | 0.62314903 | 0.48637451 |
| Nbr1   | -0.0661494 | 7.89776255 | 0.24914148 | 0.62315073 | 0.48637451 |
| Aqp6   | -0.59406 | -1.3654759 | 0.24903957 | 0.62322137 | 0.48637451 |
| Casc3  | 0.0835215 | 5.49386002 | 0.24896285 | 0.62327456 | 0.48637451 |
| Nup62  | -0.0833171 | 5.49699393 | 0.24894332 | 0.6232881 | 0.48637451 |
| Tmem123 | -0.1185778 | 5.06646632 | 0.24889693 | 0.6233921 | 0.48637451 |
| B130024G19 | 0.23217802 | 1.1616731 | 0.24885493 | 0.6234949 | 0.48637451 |
| Caskin2 | 0.12742413 | 2.60278845 | 0.24884065 | 0.6233593 | 0.48637451 |
| Arhgap27os | -0.6726791 | -1.6423363 | 0.24883911 | 0.62336037 | 0.48637451 |
| Gadd45b | -0.1278343 | 2.14979483 | 0.24877897 | 0.62340209 | 0.48637451 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|---------|
| Ccl5   | -0.2492941 | 1.43448762 | 0.24827938 | 0.62374887 | 0.48654228 |
| Melk   | -0.3763805 | 0.17902448 | 0.24825453 | 0.62376613 | 0.48654228 |
| Olfm12a| -0.1800677 | 3.54799309 | 0.24798871 | 0.62395084 | 0.4862873 |
| Rasl11a| -0.3363805 | 0.00434263 | 0.24787887 | 0.62402719 | 0.48662873 |
| Armc2  | 0.17438069 | 1.77471484 | 0.24776611 | 0.62410561 | 0.48662873 |
| Ikzf1  | -0.1098629 | 4.34495436 | 0.24767032 | 0.62417224 | 0.48662873 |
| Pter   | -0.1015146 | 3.4557309 | 0.24753259 | 0.62426806 | 0.48662873 |
| Rint1  | 0.09103144 | 4.06276788 | 0.24752672 | 0.62427215 | 0.48662873 |
| Kif26a | 0.14565269 | 2.41192325 | 0.24751726 | 0.62427873 | 0.48662873 |
| Banp   | 0.09365915 | 4.65768493 | 0.24742826 | 0.62434067 | 0.48662873 |
| Zbtb38 | 0.05893331 | 6.89674946 | 0.24737124 | 0.62438037 | 0.48662873 |
| Mrp46  | 0.1403995 | 3.48417152 | 0.24727536 | 0.62444712 | 0.48662873 |
| Adam15 | 0.09010084 | 4.21539987 | 0.24723802 | 0.62447313 | 0.48662873 |
| Fkbp9  | -0.121793 | 5.31413582 | 0.2465376 | 0.62496134 | 0.48693687 |
| 2310040G24 | 0.38743753 | 0.08428143 | 0.24648496 | 0.62499806 | 0.48693687 |
| Supt3  | -0.1388486 | 2.28573846 | 0.24645685 | 0.62501768 | 0.48693687 |
| Hcrt1  | 0.60743693 | -1.4360629 | 0.24638467 | 0.62506805 | 0.48693738 |
| Gm7361 | 0.38614722 | -0.8434527 | 0.24619629 | 0.62519956 | 0.48698359 |
| Cacng4 | -0.2730282 | 1.11388818 | 0.24615729 | 0.62522679 | 0.48698359 |
| Pgm2l1 | 0.1015885 | 10.1785393 | 0.24603763 | 0.62531036 | 0.48700996 |
| Chst11 | -0.0754014 | 5.6926055 | 0.24588127 | 0.62541961 | 0.48705631 |
| Enox2  | -0.1368735 | 4.58699672 | 0.24569748 | 0.62554808 | 0.48711764 |
| Mrps11 | -0.1949138 | 1.41683712 | 0.24557338 | 0.62563486 | 0.48714648 |
| Bmp8b  | 0.71739055 | -1.422884 | 0.24540504 | 0.62575261 | 0.48719944 |
| Ebf1   | -0.1169424 | 4.28809844 | 0.24520399 | 0.62589332 | 0.48727026 |
| Mkln1os| -0.1948122 | 1.23498685 | 0.24505708 | 0.62599618 | 0.48731161 |
| Notch2 | -0.1129381 | 7.07450311 | 0.24480684 | 0.62617148 | 0.48740934 |
| Igqap3 | 0.56409968 | -0.6190251 | 0.24445358 | 0.62641913 | 0.48756337 |
| Gpr111 | 0.87137015 | -2.0538352 | 0.2440404 | 0.62670908 | 0.48775029 |
| Raly   | 0.15319809 | 2.78369417 | 0.24384878 | 0.62684366 | 0.48781627 |
| Hibch  | -0.0979004 | 4.11210801 | 0.24313062 | 0.62734861 | 0.48813113 |
| Ece2   | 0.12832986 | 2.54732572 | 0.24312929 | 0.62734954 | 0.48813113 |
| Zfp867 | 0.09154223 | 4.15322404 | 0.24305918 | 0.62739888 | 0.48813113 |
| Ube2q1 | 0.07592892 | 6.24484934 | 0.242999 | 0.62744758 | 0.48813113 |
| Gm4980 | -0.2370237 | 0.8216005 | 0.24274078 | 0.6276231 | 0.48822889 |
| Optn   | -0.0897078 | 4.13149135 | 0.24266503 | 0.62767647 | 0.48823013 |
| Heatr5a| -0.0890394 | 4.46749891 | 0.24259705 | 0.62772437 | 0.48823013 |
| Scamp2 | -0.1956434 | 2.70673317 | 0.24238612 | 0.62787306 | 0.48826854 |
| 3110056K07I | -0.1283673 | 2.46016357 | 0.24229801 | 0.6279352 | 0.48826854 |
| Gnp1   | 0.07972292 | 5.40993141 | 0.24228004 | 0.62794787 | 0.48826854 |
| Mir384 | 0.66535117 | -1.205553 | 0.24224422 | 0.62797314 | 0.48826854 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Bap1   | -0.0860042 | 4.87571872 | 0.24212497 | 0.62805726 | 0.48829518 |
| Helz   | 0.09449991 | 6.72444191 | 0.24200604 | 0.6281412 | 0.48832168 |
| Irf7   | -0.31848199 | 0.15226717 | 0.24177112 | 0.62830705 | 0.48839554 |
| Nos3   | 0.23507569 | 0.88492449 | 0.24171328 | 0.62834791 | 0.48839554 |
| Ufsp1  | -0.17944425 | 1.89725205 | 0.24162212 | 0.62841231 | 0.48839554 |
| Zdhhc22| -0.1375191 | 2.47904651 | 0.24152086 | 0.62848386 | 0.48839554 |
| Zfr    | 0.068374 | 8.62368606 | 0.24151853 | 0.6284855 | 0.48839554 |
| Ackr2  | -0.3153185 | 0.49083056 | 0.24143916 | 0.6285416 | 0.48840038 |
| Prmt3  | 0.08913103 | 4.30951432 | 0.24136047 | 0.62859723 | 0.48840486 |
| Eaf2   | -0.1694627 | 1.50594615 | 0.24125259 | 0.62867351 | 0.48842539 |
| Sdc2   | -0.1162178 | 6.59430272 | 0.2411274 | 0.62876205 | 0.48845544 |
| Fgd1   | 0.11816203 | 3.05365511 | 0.2409003 | 0.62892276 | 0.48854154 |
| Dpys   | -0.5410528 | -0.9644051 | 0.24033644 | 0.62932217 | 0.48878214 |
| Snx33  | -0.1197454 | 3.96125282 | 0.24030373 | 0.62934536 | 0.48878214 |
| Myct1  | 0.64828904 | -1.6149048 | 0.24025177 | 0.6293822 | 0.48878214 |
| Zfp384 | 0.0701043 | 5.17019792 | 0.24001813 | 0.6295479 | 0.48887207 |
| Epc1   | 0.05984596 | 6.38698738 | 0.2398408 | 0.62967374 | 0.48889821 |
| Olfm4  | -0.8076093 | -2.1604963 | 0.23983004 | 0.62968138 | 0.48889821 |
| Sirt6  | 0.13576341 | 2.94757241 | 0.23935955 | 0.63001554 | 0.48910302 |
| Evi5l  | 0.10713574 | 3.32774126 | 0.23925844 | 0.63008741 | 0.48910302 |
| Rasal3 | -0.429026 | -0.2015139 | 0.23923783 | 0.63010205 | 0.48910302 |
| Kpna6  | -0.0735659 | 7.46646261 | 0.23917756 | 0.6301449 | 0.48910302 |
| Dyn2cl1| -0.1104771 | 3.59751117 | 0.23868939 | 0.63049223 | 0.48925637 |
| Fli1   | -0.1199203 | 4.25282813 | 0.23867805 | 0.6305003 | 0.48925637 |
| Pdkx   | -0.0715028 | 7.60065812 | 0.23863285 | 0.63053248 | 0.48925637 |
| Ly6c1  | 0.2410364 | 1.66203813 | 0.23861911 | 0.63054226 | 0.48925637 |
| Man1c1 | 0.07735913 | 6.0539353 | 0.23854804 | 0.63059288 | 0.48925689 |
| Coq3   | -0.1059923 | 3.37844803 | 0.23847789 | 0.63064284 | 0.4892569 |
| Wipf3  | 0.07484576 | 7.87146541 | 0.23808027 | 0.63092622 | 0.48943798 |
| Wrap53 | 0.21271084 | 1.41100641 | 0.23783511 | 0.63110108 | 0.48953486 |
| Cldn8  | -0.8813909 | -2.2535441 | 0.23744522 | 0.63137942 | 0.48969652 |
| Dnajc5b| 0.45307565 | -0.5513479 | 0.23740315 | 0.63140947 | 0.48969652 |
| Gcat   | -0.2852525 | 0.83684208 | 0.23724825 | 0.63152014 | 0.48974357 |
| C1ql2  | -0.5098425 | -1.1618038 | 0.23707576 | 0.63164343 | 0.48978414 |
| Zfp553 | 0.1346579 | 3.70563064 | 0.23698798 | 0.6317062 | 0.48978414 |
| Dffb   | -0.2592328 | 1.45709339 | 0.23696525 | 0.63172245 | 0.48978414 |
| Eme2   | -0.1722444 | 1.9866727 | 0.23679663 | 0.63184306 | 0.48983888 |
| Incenp | -0.1135825 | 3.47791435 | 0.23667917 | 0.63192711 | 0.48986527 |
| Arap1  | -0.1200078 | 3.70806444 | 0.23651296 | 0.6320461 | 0.48988221 |
| Fam221b| 0.38271521 | -0.509092 | 0.23650295 | 0.63205326 | 0.48988221 |
| P2rx3  | 0.22416971 | 1.27183356 | 0.23643907 | 0.63209901 | 0.48988221 |
| Vangl2 | 0.15605162 | 1.96473114 | 0.23627651 | 0.63221545 | 0.48993369 |
| Nrip1  | 0.07528059 | 6.16891455 | 0.23588196 | 0.63249827 | 0.49010504 |
| Gene      | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Nrf1      | 0.09291154 | 3.87283049 | 0.23582847 | 0.63253663 | 0.49010504 |
| Sh3d19    | -0.0781936 | 6.73968738 | 0.23570104 | 0.63262805 | 0.49013711 |
| Hmg20a    | -0.094977   | 5.9347233  | 0.23544057 | 0.63281501 | 0.49016181 |
| LOC1010560 | -0.1248269 | 3.43306051 | 0.23536551 | 0.63286892 | 0.49016181 |
| Snx21     | 0.18838143 | 1.94297433 | 0.23534593 | 0.63288298 | 0.49016181 |
| Ank3      | 0.11893849 | 2.94614511 | 0.23534497 | 0.63288367 | 0.49016181 |
| Mrh5      | -0.3580496  | -0.7387819 | 0.23529779 | 0.63291755 | 0.49016181 |
| Cipc      | -0.0570456  | 6.68247745 | 0.23523844 | 0.63296019 | 0.49016181 |
| Was       | -0.2205101  | 0.99596923 | 0.23508141 | 0.63307302 | 0.49017353 |
| Ttc12     | 0.27185869 | 1.39047069 | 0.23507811 | 0.6330754  | 0.49017353 |
| Isg20     | -0.179493   | 1.67087983 | 0.23492155 | 0.63318794 | 0.49022192 |
| Coro1c    | -0.0838705  | 5.89259875 | 0.2345942  | 0.63342341 | 0.4903085 |
| Cct6b     | 0.67473524 | -1.4905165 | 0.2345711  | 0.63344003 | 0.4903085 |
| D2Wsue81e | -0.132576   | 2.04981063 | 0.23451185 | 0.63348268 | 0.4903085 |
| Scn3b     | 0.07632484 | 5.74038972 | 0.23430564 | 0.63363115 | 0.4903085 |
| Lor       | -0.219322   | 0.3638543  | 0.23424642 | 0.6336738  | 0.4903085 |
| Myo19     | 0.14813478 | 2.91947592 | 0.23394694 | 0.6338896  | 0.4903085 |
| Pcolce    | -0.1436896 | 4.76115866 | 0.23391372 | 0.63391355 | 0.4903085 |
| Dos       | 0.07869023 | 6.40590854 | 0.23391319 | 0.63391393 | 0.4903085 |
| Ptgs2     | -0.1141054 | 4.12798815 | 0.23383954 | 0.63396703 | 0.4903085 |
| Kctd16    | 0.12234142 | 3.81506031 | 0.2337643  | 0.6340213  | 0.4903085 |
| Fkbp11    | 0.48279805 | -1.4184632 | 0.23376346 | 0.6340219  | 0.4903085 |
| Nelfc1    | 0.09876785 | 3.75889393 | 0.2337179  | 0.63405476 | 0.4903085 |
| Gm16938   | -0.1661888 | 2.17302732 | 0.23366089 | 0.6340589  | 0.4903085 |
| Creb5     | -0.0808508 | 4.20964926 | 0.23364158 | 0.6341098  | 0.4903085 |
| Hdhd2     | 0.0685383  | 5.52610197 | 0.23354595 | 0.63417882 | 0.4903085 |
| Tssc4     | -0.1221824 | 2.47401417 | 0.23350447 | 0.63420785 | 0.4903085 |
| Smad6     | 0.17439188 | 2.58406296 | 0.23348376 | 0.6342237  | 0.4903085 |
| Man2b1    | -0.1096333 | 4.0911535  | 0.23347154 | 0.63423252 | 0.4903085 |
| Smim1     | -0.2653601 | 1.65134295 | 0.23340614 | 0.63427973 | 0.4903085 |
| Socs6     | 0.07666462 | 4.27814036 | 0.23324757 | 0.63439423 | 0.49037539 |
| Epha8     | 0.26866745 | 0.67208975 | 0.23318753 | 0.63443759 | 0.49037539 |
| Jam3      | -0.1386108 | 2.89043088 | 0.23306858 | 0.63452353 | 0.49037539 |
| Hfe2      | 0.6657746  | -1.1659473 | 0.23304911 | 0.63453759 | 0.49037539 |
| Adamts13  | -0.1744035 | 4.39157337 | 0.23297697 | 0.63458973 | 0.49037699 |
| Papola    | 0.05871111 | 8.23868163 | 0.23286866 | 0.63466802 | 0.4903988 |
| Inppl1    | 0.10690227 | 4.24130284 | 0.23250921 | 0.63492801 | 0.49054438 |
| Fanca     | 0.70087597 | -2.1541117 | 0.23246972 | 0.63495659 | 0.49054438 |
| 4833417C18I | -0.5611149 | -1.3667908 | 0.23239631 | 0.63500972 | 0.49054674 |
| Siah1a    | -0.0685443 | 5.65534911 | 0.23214722 | 0.63519009 | 0.49061876 |
| Slec25a25 | -0.0821143 | 5.0207656  | 0.23212921 | 0.63520313 | 0.49061876 |
| Fam228a   | 0.27915301 | 1.31402514 | 0.23169685 | 0.6355165  | 0.49082132 |
| Alox15    | 0.98908008 | -1.1973716 | 0.23162916 | 0.6355656  | 0.49082132 |
| Gene     | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Fam89a   | 0.8104403 | -1.4200627 | 0.23132604 | 0.6357855 | 0.49095248 |
| Tspan3   | -0.0869376 | 7.0022232 | 0.23124178 | 0.63584673 | 0.49096101 |
| Ptbp3    | -0.0695389 | 7.19156415 | 0.23087135 | 0.63611583 | 0.49107198 |
| Usp54    | 0.05227184 | 6.65042022 | 0.23086736 | 0.63611873 | 0.49107198 |
| Mgl2     | -0.2791918 | 0.39839275 | 0.23083694 | 0.63614084 | 0.49107198 |
| Vcl      | -0.0743571 | 6.50105909 | 0.23072857 | 0.63621962 | 0.49107557 |
| Caps2    | -0.4896264 | -1.2710401 | 0.23069263 | 0.63624576 | 0.49107557 |
| Chd7     | 0.11709356 | 4.64904099 | 0.23034559 | 0.63649823 | 0.49123173 |
| Btlh     | 0.46719621 | -0.3808945 | 0.23023442 | 0.63657916 | 0.49125548 |
| Adck1    | -0.1088361 | 3.05850564 | 0.23015884 | 0.63663419 | 0.49125925 |
| Cgrrf1   | -0.0842328 | 3.86189549 | 0.22925934 | 0.63729001 | 0.49172657 |
| Bmp5     | -0.1421458 | 5.86013317 | 0.22895689 | 0.63751088 | 0.491741 |
| 2010002M12 | -0.132852 | 2.29318535 | 0.22890759 | 0.6375469 | 0.491741 |
| Htr5a    | -0.1208613 | 5.37112254 | 0.22887766 | 0.63756877 | 0.491741 |
| Zfp90    | -0.0930588 | 3.80356774 | 0.22884718 | 0.63759104 | 0.491741 |
| Dlg3     | 0.08416121 | 6.55474967 | 0.22882475 | 0.63760743 | 0.491741 |
| Tysnd1   | -0.1368795 | 2.27809315 | 0.22880299 | 0.63762334 | 0.491741 |
| Fbln7    | 0.18526172 | 4.07381577 | 0.22875268 | 0.63766011 | 0.491741 |
| Siglech  | 0.16477347 | 2.13107819 | 0.22856767 | 0.63779539 | 0.4918066 |
| 9430076C151 | 0.61669091 | -1.4963144 | 0.22822455 | 0.63804644 | 0.49196146 |
| Ccdd149  | 0.0876809 | 4.44351434 | 0.22808606 | 0.63814784 | 0.4919654 |
| B2m      | -0.104196 | 9.02542822 | 0.22808038 | 0.6381522 | 0.4919654 |
| Nsun2    | 0.06569601 | 5.15905274 | 0.22780374 | 0.63835466 | 0.4920829 |
| Tmem126a | -0.0822313 | 4.47075064 | 0.22754752 | 0.6385425 | 0.49216802 |
| Ft1      | -0.0938545 | 6.19724188 | 0.22751277 | 0.63856799 | 0.49216802 |
| 5830403L16f | 0.42637696 | -0.5332773 | 0.22733748 | 0.63869658 | 0.49216802 |
| Hcar1    | -0.1782978 | 4.37220881 | 0.22730836 | 0.63871795 | 0.49216802 |
| Wdr96    | -0.2217669 | 1.22536066 | 0.22725694 | 0.63875569 | 0.49216802 |
| Mta3     | 0.07944382 | 5.56696149 | 0.22724214 | 0.63876655 | 0.49216802 |
| Rfwd3    | 0.06357641 | 5.39806734 | 0.22715187 | 0.63883281 | 0.49218036 |
| Gme6484  | 0.59249506 | -1.9123091 | 0.22706362 | 0.63889761 | 0.49218201 |
| Morn2    | 0.13649632 | 2.89696583 | 0.22701211 | 0.63893544 | 0.49218201 |
| Pik3c2g  | 0.66938666 | -2.0787659 | 0.22686288 | 0.63904506 | 0.49222774 |
| Polh     | 0.12709567 | 2.48231141 | 0.22674011 | 0.63913528 | 0.49225852 |
| Zfp811   | -0.1072805 | 3.43051123 | 0.22664274 | 0.63920686 | 0.49226896 |
| Gtppbp1  | 0.11616421 | 4.45862357 | 0.22658495 | 0.63924934 | 0.49226896 |
| Cemip    | -0.0873248 | 3.50331555 | 0.22639887 | 0.63938621 | 0.49230976 |
| Med15    | -0.057372 | 6.51689822 | 0.22637625 | 0.63940285 | 0.49230976 |
| Cd63     | -0.1596903 | 4.98247981 | 0.22609441 | 0.63961028 | 0.49243077 |
| Rorc     | 0.23349564 | 1.15378792 | 0.22583251 | 0.63980318 | 0.49254057 |
| Ccdd87   | 0.236889 | 1.01600754 | 0.22571157 | 0.63989231 | 0.49257047 |
| Ldhb     | -0.0693461 | 8.96055698 | 0.22557949 | 0.63998967 | 0.49260671 |
| Tktl1    | 0.51683242 | -1.6232973 | 0.22529058 | 0.64020278 | 0.49268704 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Gm6981 | -0.1684054 | 1.51002647 | 0.22523599 | 0.64024360 | 0.49268704 |
| Vkorc1l1 | -0.0519707 | 6.22933451 | 0.22516383 | 0.64029632 | 0.49268704 |
| Sgpp1 | -0.059437 | 6.5640417 | 0.2250529 | 0.64037822 | 0.49268704 |
| Cep55 | 0.63130007 | -1.7708971 | 0.22504291 | 0.64038559 | 0.49268704 |
| Trhde | -0.0981375 | 5.81450051 | 0.22502905 | 0.64039583 | 0.49268704 |
| Sys1 | -0.1216332 | 3.2962455 | 0.22495979 | 0.64044697 | 0.49268769 |
| Itpr1l | 0.27933965 | 1.21223054 | 0.22483096 | 0.64054214 | 0.49272221 |
| St3gal1 | 0.07303184 | 5.20677659 | 0.22449336 | 0.64079169 | 0.49287546 |
| 1700034F02l | 0.59081655 | -1.1505467 | 0.22438219 | 0.64087391 | 0.4929 |
| Skiv2l2 | 0.06273635 | 6.77451449 | 0.22430066 | 0.64093423 | 0.49290769 |
| Fez1 | 0.06846931 | 5.52476133 | 0.22409011 | 0.64109006 | 0.49298882 |
| Fggy | -0.1437413 | 2.85345833 | 0.22398967 | 0.64116443 | 0.49300038 |
| Pds5b | 0.06156982 | 7.92641985 | 0.22393388 | 0.64120575 | 0.49300038 |
| 2610020H08 | 0.2431303 | 0.73171678 | 0.22380541 | 0.64130091 | 0.49303485 |
| 8030462N17 | -0.061602 | 5.47395335 | 0.22340665 | 0.64159652 | 0.49320485 |
| Cpne9 | 0.13042011 | 4.22777363 | 0.22335782 | 0.64163274 | 0.49320485 |
| Rbbp4 | 0.06604022 | 5.94783195 | 0.22327483 | 0.64169432 | 0.49320485 |
| Atp6v0c | 0.50743479 | -1.4626993 | 0.22323558 | 0.64172344 | 0.49320485 |
| Srsf10 | -0.0597818 | 6.59195119 | 0.22311316 | 0.6418143 | 0.49322682 |
| Rab40c | -0.1209783 | 2.90796542 | 0.22305432 | 0.64185798 | 0.49322682 |
| Chmp7 | -0.0766349 | 5.62002362 | 0.22299358 | 0.64190309 | 0.49322682 |
| Gpc3 | 0.13465104 | 3.71078847 | 0.22281033 | 0.6420392 | 0.49328357 |
| Papln | 0.49429457 | -0.9964692 | 0.22275856 | 0.64207767 | 0.49328357 |
| Serpina1d | -0.6585345 | -1.5769784 | 0.22255582 | 0.64222835 | 0.49336065 |
| Adams2l | -0.3736146 | -0.4198794 | 0.22223601 | 0.64246623 | 0.49347032 |
| Psmc6 | 0.06578077 | 5.85723152 | 0.22222841 | 0.64247188 | 0.49347032 |
| 9230114K14l | 0.17040886 | 1.94223052 | 0.22209663 | 0.64256997 | 0.49347354 |
| Lrfn3 | 0.10370185 | 3.13777682 | 0.22208742 | 0.64257683 | 0.49347354 |
| BC024978 | -0.0827224 | 4.79122258 | 0.22197414 | 0.64266117 | 0.49349962 |
| Itsn1 | 0.08595972 | 7.01485215 | 0.22155694 | 0.64297203 | 0.49369962 |
| Rpf2 | -0.0741169 | 4.36084234 | 0.22148564 | 0.64302519 | 0.49370174 |
| Rad17 | -0.0932328 | 4.17621479 | 0.22118773 | 0.64324743 | 0.49382173 |
| 4930520004 | -0.5604031 | -1.0839657 | 0.22110586 | 0.64330854 | 0.49382173 |
| Parvg | -0.2019358 | 1.48542068 | 0.22107348 | 0.6433327 | 0.49382173 |
| Ryk | 0.10203459 | 4.46530085 | 0.22099549 | 0.64339093 | 0.49382772 |
| Ccr10 | 0.58319482 | -1.0131679 | 0.220911 | 0.64345403 | 0.49383746 |
| Pfkb4 | 0.19978406 | 1.19847148 | 0.22079748 | 0.64353883 | 0.49386384 |
| Ms4a4b | -0.4491703 | -0.5138973 | 0.22056593 | 0.64371188 | 0.49389148 |
| Ing3 | -0.0874291 | 4.2107681 | 0.22055102 | 0.64372302 | 0.49389148 |
| Cpxm1 | -0.141513 | 3.30145207 | 0.22052333 | 0.64374373 | 0.49389148 |
| Tmod1 | 0.08080795 | 4.73124694 | 0.22047948 | 0.64377652 | 0.49389148 |
| Gm14092 | 0.57843517 | -1.0279516 | 0.22014291 | 0.64402831 | 0.49397504 |
| Dlx6 | 0.21244967 | 0.88559198 | 0.22010428 | 0.64405723 | 0.49397504 |
| Gene    | Value   | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     |
|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Gngt2   | 0.242   | 0.723     | 0.220     | 0.644     | 0.493     | 0.493     |
| Fn3k    | -0.127  | 3.231     | 0.220     | 0.644     | 0.493     | 0.493     |
| Ado     | 0.071   | 5.370     | 0.219     | 0.644     | 0.493     | 0.493     |
| Ppm1h   | 0.059   | 6.756     | 0.219     | 0.644     | 0.493     | 0.493     |
| Tspo    | -0.170  | 2.025     | 0.219     | 0.644     | 0.493     | 0.493     |
| A530032D15 | -0.22    | 0.868     | 0.219     | 0.644     | 0.493     | 0.493     |
| Flii    | 0.071   | 5.387     | 0.219     | 0.644     | 0.493     | 0.493     |
| Atmin   | 0.056   | 6.268     | 0.219     | 0.644     | 0.493     | 0.493     |
| Ctb2p   | 0.084   | 4.216     | 0.219     | 0.644     | 0.493     | 0.493     |
| Fam196b | 0.170   | 1.521     | 0.219     | 0.644     | 0.493     | 0.493     |
| Hsdl2   | 0.079   | 6.172     | 0.219     | 0.644     | 0.493     | 0.493     |
| Acvr2b  | -0.251  | 0.624     | 0.219     | 0.644     | 0.493     | 0.493     |
| Eomes   | 0.300   | 0.416     | 0.219     | 0.644     | 0.493     | 0.493     |
| 9930012K11l | 0.237  | 1.304     | 0.219     | 0.644     | 0.493     | 0.493     |
| Spin2c  | -0.125  | 2.935     | 0.219     | 0.644     | 0.493     | 0.493     |
| Tmem51os1 | -0.354  | -0.511     | 0.219     | 0.644     | 0.493     | 0.493     |
| Nkd1    | -0.101  | 4.858     | 0.219     | 0.644     | 0.493     | 0.493     |
| Gm10421 | 0.464   | 0.088     | 0.219     | 0.644     | 0.493     | 0.493     |
| Them6   | 0.142   | 2.623     | 0.219     | 0.644     | 0.493     | 0.493     |
| Trabd2b | -0.114  | 6.322     | 0.219     | 0.644     | 0.493     | 0.493     |
| Ubp2l   | 0.058   | 8.456     | 0.219     | 0.644     | 0.493     | 0.493     |
| Fam149b | -0.068  | 5.388     | 0.219     | 0.644     | 0.493     | 0.493     |
| Atxn1l  | 0.062   | 6.295     | 0.219     | 0.644     | 0.493     | 0.493     |
| Kif27   | 0.145   | 2.201     | 0.219     | 0.644     | 0.493     | 0.493     |
| Shisa4  | -0.101  | 4.603     | 0.219     | 0.644     | 0.493     | 0.493     |
| Necap1  | -0.055  | 7.205     | 0.219     | 0.644     | 0.493     | 0.493     |
| Mmp15   | 0.208   | 1.114     | 0.219     | 0.644     | 0.493     | 0.493     |
| Hlcs    | -0.087  | 4.427     | 0.219     | 0.644     | 0.493     | 0.493     |
| Hos7    | -0.722  | -1.703     | 0.219     | 0.644     | 0.493     | 0.493     |
| Ngefi   | 0.076   | 5.792     | 0.219     | 0.644     | 0.493     | 0.493     |
| Mfsd1   | 0.108   | 5.172     | 0.219     | 0.644     | 0.493     | 0.493     |
| Lpar4   | 0.169   | 2.277     | 0.219     | 0.644     | 0.493     | 0.493     |
| Slc16a1 | 0.090   | 5.038     | 0.219     | 0.644     | 0.493     | 0.493     |
| Kank3   | -0.185  | 1.870     | 0.219     | 0.644     | 0.493     | 0.493     |
| Ccdc62  | -0.216  | 1.898     | 0.219     | 0.644     | 0.493     | 0.493     |
| Rragd   | 0.050   | 7.209     | 0.219     | 0.644     | 0.493     | 0.493     |
| Selenbp2| -0.310  | -0.217     | 0.219     | 0.644     | 0.493     | 0.493     |
| Tmem107 | -0.155  | 1.716     | 0.219     | 0.644     | 0.493     | 0.493     |
| Haus5   | 0.168   | 1.620     | 0.219     | 0.644     | 0.493     | 0.493     |
| Ddrgk1  | -0.093  | 4.106     | 0.219     | 0.644     | 0.493     | 0.493     |
| Galk1   | -0.151  | 2.747     | 0.219     | 0.644     | 0.493     | 0.493     |
| Sag     | 0.355   | -0.759     | 0.219     | 0.644     | 0.493     | 0.493     |
| Insmin1 | -0.202  | 2.142     | 0.219     | 0.644     | 0.493     | 0.493     |
| Gene      | 10-Mar       |
|-----------|--------------|
| Hist1h4b  | -0.4212563   | -1.8082194 | 0.21498249 | 0.64791889 | 0.49528502 |
| Ppt2      | 0.18976801   | 1.23233552 | 0.2147082 | 0.64812727 | 0.49540566 |
| C130050018 | 0.58700339   | -2.0678571 | 0.21451953 | 0.64827071 | 0.49545715 |
| Hdc       | -0.354907    | -0.2146941 | 0.21444782 | 0.64832524 | 0.49545715 |
| Slc31a1   | 0.06779449   | 5.88304645 | 0.21442004 | 0.64834638 | 0.49545715 |
| Slc36a4   | -0.0785013   | 4.97063688 | 0.21412355 | 0.648572   | 0.4955909  |
| Mysm1     | 0.06977198   | 6.25552941 | 0.21392276 | 0.6487249  | 0.49566907 |
| Ttl2      | -0.0836197   | 4.5965     | 0.21373928 | 0.64886471 | 0.49573722 |
| Tsta3     | -0.1777286   | 2.29746459 | 0.21351079 | 0.6490389  | 0.49583163 |
| Otf2      | 0.10898369   | 4.18802212 | 0.21338621 | 0.64913393 | 0.49586555 |
| Fbxo2     | 0.10830229   | 3.07285821 | 0.21307468 | 0.6493717  | 0.49599062 |
| Tmem14a   | -0.0807766   | 4.84503277 | 0.21301765 | 0.64941525 | 0.49599062 |
| Gatm      | -0.0577109   | 6.23725596 | 0.21297274 | 0.64944956 | 0.49599062 |
| Anks1     | -0.0891129   | 3.49404808 | 0.21280091 | 0.64958083 | 0.4960522  |
| Vat1      | -0.107425    | 4.62141289 | 0.21260883 | 0.64972766 | 0.49612565 |
| Mtf1r1    | -0.0808599   | 5.6179435  | 0.21249749 | 0.6498128  | 0.49615198 |
| Mtmr14    | -0.1179383   | 3.11934636 | 0.21236092 | 0.64991728 | 0.49617966 |
| Sox13     | -0.1461458   | 3.36118298 | 0.2122729  | 0.64998463 | 0.49617966 |
| Mrpl35    | -0.0602043   | 5.8137465  | 0.21219789 | 0.65004205 | 0.49617966 |
| Ints10    | 0.09667078   | 4.16093091 | 0.21218533 | 0.65005166 | 0.49617966 |
| Wdr26     | 0.0513374    | 8.56156612 | 0.21175995 | 0.65037751 | 0.49637887 |
| Wdr37     | 0.0557198    | 7.17723915 | 0.21171235 | 0.650414   | 0.49637887 |
| 10-Mar     | -0.3607404   | -0.6737566 | 0.21158467 | 0.65051189 | 0.49641442 |
| Pcg2      | -0.0948421   | 5.09123752 | 0.2114813  | 0.65059118 | 0.49641442 |
| Rab33b    | 0.06029149   | 5.90779528 | 0.21145334 | 0.65061262 | 0.49641442 |
| Adck3     | 0.11023184   | 2.71433833 | 0.21115937 | 0.65083824 | 0.49654788 |
| Abcc4     | 0.1112493    | 5.12241116 | 0.21102491 | 0.6509415  | 0.4965662 |
| Nxf2      | -0.5439888   | -1.3173708 | 0.21088423 | 0.65104958 | 0.4965662 |
| Ino80e    | 0.15498568   | 2.32870918 | 0.2108486 | 0.65107696 | 0.4965662 |
| Gm3086    | -0.3639545   | 0.26584689 | 0.21082428 | 0.65109565 | 0.4965662 |
| Ago4      | 0.1545542    | 3.22251351 | 0.21079817 | 0.65111571 | 0.4966562 |
| C2cd4b    | -0.2803162   | -0.0762654 | 0.21051467 | 0.65133371 | 0.49669378 |
| Gm6815    | 0.32303593   | -0.9340087 | 0.21039291 | 0.65142739 | 0.49672655 |
| Rab8a     | -0.131971    | 4.84206691 | 0.21028107 | 0.65151346 | 0.49675351 |
| Fb xo18   | -0.0593596   | 5.50909359 | 0.21020796 | 0.65156975 | 0.49675776 |
| A830018L16l | -0.0736558   | 6.95865729 | 0.2099109  | 0.65179855 | 0.49688282 |
| Mpi       | -0.0835155   | 4.47507128 | 0.2098633  | 0.65183524 | 0.49688282 |
| Arsk      | -0.1248266   | 3.59236562 | 0.20961051 | 0.65203013 | 0.4969728 |
| Pla2g2d   | -0.3447126   | -0.6830274 | 0.2095786  | 0.65205475 | 0.4969728 |
| Spag6     | 0.15773688   | 1.99929427 | 0.20927335 | 0.6522903  | 0.49711365 |
| Mab211    | -0.2085297   | 1.21648583 | 0.20913999 | 0.65239327 | 0.49714591 |
| Stxbp3a   | -0.0637206   | 4.61286465 | 0.20908708 | 0.65243414 | 0.49714591 |
| Cpne5     | 0.08772194   | 4.94584608 | 0.20875561 | 0.6526903  | 0.49730242 |
| Gene  | Stom  | Tgs1  | Fam168a | Wwc2  | Wdr65  | 1110054M08 | Mrps31  | Tclim  | 4921511H03 | Ipkm  | Ddx4  | AU022754 | Slit3  | Rps14  | Arl8b  | Ccddc7  | Rnf6  | Trem12  | Acads  | Aifm3  | Lonrf1  | Coro2b  | Limk2  | Smu1  | AF357355 | Gpn3  | Fam189a2 | Ckap2  | Khd1c10 | Anpep  | Acad1  | Amigo1  | 2700081O15 | Chd4  | Fbxos6 | Ups2  | Kpna1  | Piplah | Tceas3 | Acat3  | Layn  | Rft1  | Npnt   |
|-------|-------|-------|---------|-------|-------|-----------|--------|--------|-----------|-------|-------|---------|--------|--------|--------|---------|-------|---------|--------|-------|-------|---------|-------|--------|--------|---------|-------|--------|--------|---------|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|
|       | -0.2097111 | 5.20970168 | 0.20857965 | 0.65282639 | 0.49736742 | 0.09556442 | 6.52407515 | 0.20825793 | 0.65307538 | 0.49750888 | -0.0457477 | 8.13100082 | 0.2082085 | 0.65311365 | 0.49750888 | 0.08137619 | 4.8312372 | 0.20800004 | 0.65327513 | 0.49756927 | 0.28474425 | 1.0782569 | 0.20797502 | 0.65329453 | 0.49756927 | 0.21406524 | 1.12950431 | 0.20766781 | 0.65353271 | 0.49759285 | -0.0974579 | 4.56028874 | 0.20764572 | 0.65354984 | 0.49759285 | 0.09163318 | 4.43598128 | 0.20763242 | 0.65356016 | 0.49759285 | 0.59125185 | -1.1054533 | 0.20762406 | 0.65356664 | 0.49759285 | 0.0662902 | 5.56169021 | 0.20760752 | 0.65357947 | 0.49759285 | 0.20949534 | 0.98895315 | 0.20740536 | 0.65373635 | 0.49759789 | 0.34515126 | -0.2459675 | 0.20739539 | 0.65374409 | 0.49759789 | 0.09968492 | 4.60546321 | 0.20737382 | 0.65376084 | 0.49759789 | -0.1544079 | 4.3577063 | 0.20733716 | 0.6537893 | 0.49759789 | 0.0485265 | 7.95545664 | 0.20702284 | 0.65403344 | 0.49774504 | 0.50978441 | -1.3627201 | 0.20678918 | 0.65421508 | 0.4978007 | -0.0484144 | 6.81073045 | 0.20669219 | 0.65429051 | 0.4978007 | -0.5628001 | -0.6834042 | 0.20668569 | 0.65429557 | 0.4978007 | 0.39816035 | -0.6553317 | 0.20666732 | 0.65430986 | 0.4978007 | -0.0786255 | 5.53542131 | 0.20654401 | 0.6544058 | 0.49781902 | -0.070746 | 6.32971245 | 0.20650575 | 0.65443558 | 0.49781902 | 0.07523187 | 6.52167001 | 0.20642359 | 0.65449953 | 0.497829 | 0.07247221 | 5.20943889 | 0.20628891 | 0.6546044 | 0.49787011 | 0.06794908 | 5.43062054 | 0.20604266 | 0.65479624 | 0.49794467 | 0.56891829 | -1.001034 | 0.20601062 | 0.65482122 | 0.49794467 | 0.11197307 | 4.49154742 | 0.2059661 | 0.65485592 | 0.49794467 | -0.2504482 | 0.55392825 | 0.20590215 | 0.65490577 | 0.49794467 | 0.31703391 | 0.36365987 | 0.20566006 | 0.6550946 | 0.49804958 | -0.0581801 | 6.89725649 | 0.2055645 | 0.65516916 | 0.49806761 | -0.1235703 | 6.47703909 | 0.20529057 | 0.65538304 | 0.49819154 | 0.07700121 | 4.50550654 | 0.20483538 | 0.65573882 | 0.4984233 | 0.06429436 | 5.74003178 | 0.20450796 | 0.65599503 | 0.49857936 | 0.06261886 | 6.20960645 | 0.20441673 | 0.65606646 | 0.49859496 | 0.05936137 | 7.44856066 | 0.20401369 | 0.65638227 | 0.49879627 | -0.1706374 | 2.9116626 | 0.20385561 | 0.65650624 | 0.49881344 | 0.07453222 | 5.72951967 | 0.20379079 | 0.65655709 | 0.49881344 | 0.05639423 | 6.91615196 | 0.20371487 | 0.65661667 | 0.49881344 | -0.1350893 | 1.8057182 | 0.20367643 | 0.65664684 | 0.49881344 | 0.11073168 | 3.93148528 | 0.20366031 | 0.65665948 | 0.49881344 | 0.25422621 | 0.69937389 | 0.20352918 | 0.65676242 | 0.49885295 | -0.1837683 | 1.44309849 | 0.20318164 | 0.65703545 | 0.49902163 | 0.17239988 | 2.59796167 | 0.20310802 | 0.65709332 | 0.49902351 | -0.0797931 | 3.77911532 | 0.2030489 | 0.6571398 | 0.49902351 |
| Gene     | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Slco2a1  | -0.1335623 | 4.43168881 | 0.20294601 | 0.65722071 | 0.49904626 |
| Ccdc38   | 0.28464692 | -0.1987506 | 0.2026332 | 0.65746686 | 0.49919447 |
| Jup      | 0.07282637 | 5.22506196 | 0.20253368 | 0.65754523 | 0.49921528 |
| Arid3b   | -0.1632683 | 2.17230313 | 0.20244622 | 0.65761411 | 0.49922888 |
| Khk      | -0.2245194 | 2.21443771 | 0.20227112 | 0.65757208 | 0.49926746 |
| Iqcb1    | 0.07475031 | 4.50208082 | 0.20225234 | 0.65776687 | 0.49926746 |
| Drg2     | -0.0864446 | 3.88772029 | 0.2020896  | 0.65789517 | 0.49930033 |
| Ranbp6   | 0.08557026 | 6.39165545 | 0.20206811 | 0.65791212 | 0.49930033 |
| Cd302    | -0.0940557 | 4.11724662 | 0.20188862 | 0.65805371 | 0.49936909 |
| Rgp1     | 0.07225269 | 4.49069946 | 0.20179113 | 0.65813064 | 0.49937963 |
| D430020j02f | -0.3153483 | 0.56245737 | 0.20168352 | 0.65821559 | 0.49937963 |
| Lemd2    | -0.1522303 | 2.11383672 | 0.20167724 | 0.65822054 | 0.49937963 |
| Nup1l2   | 0.12244673 | 3.28139523 | 0.20144567 | 0.65840344 | 0.49947297 |
| Mthfd2   | 0.19535723 | 1.46340259 | 0.20139238 | 0.65844554 | 0.49947297 |
| Tmx2     | 0.07126019 | 5.98579548 | 0.20124724 | 0.65856026 | 0.4995213 |
| Magi2    | 0.07708235 | 7.42040035 | 0.20113433 | 0.65864954 | 0.49955033 |
| Arel1    | 0.06024316 | 6.26592541 | 0.2008816  | 0.65884948 | 0.49966329 |
| Npr1     | 0.22402653 | 0.10392755 | 0.20013686 | 0.65943954 | 0.50006167 |
| Chst15   | 0.07602568 | 5.98406679 | 0.20008075 | 0.65948405 | 0.50006167 |
| Sall1    | -0.0635796 | 4.82359432 | 0.19995707 | 0.65958219 | 0.50006167 |
| Gpr161   | -0.3021044 | -0.3219541 | 0.19989701 | 0.65962986 | 0.50006167 |
| Trim27   | -0.0684179 | 4.48871746 | 0.19985128 | 0.65966616 | 0.50006167 |
| Sart3    | -0.10113  | 4.68295842 | 0.19978663 | 0.65971749 | 0.50006167 |
| Zbed3    | -0.0797863 | 5.56461188 | 0.19975519 | 0.65974246 | 0.50006167 |
| Syap1    | -0.1086087 | 5.92517928 | 0.19970391 | 0.65978318 | 0.50006167 |
| Zfp503   | -0.0978429 | 3.92476051 | 0.19945079 | 0.6599843 | 0.50015248 |
| Slain1os | 0.26185877 | 1.00212883 | 0.19942459 | 0.66000512 | 0.50015248 |
| Btbd6    | -0.0770227 | 4.22448594 | 0.19919923 | 0.66018432 | 0.50024958 |
| Gnpnat1  | 0.0780933  | 4.78318396 | 0.19906799 | 0.66028873 | 0.50029   |
| Sowahb   | 0.09936888 | 3.51482256 | 0.19899649 | 0.66034564 | 0.50029441 |
| Cpne8    | 0.06251791 | 6.41143721 | 0.19833069 | 0.66087611 | 0.50065759 |
| Emp3     | -0.1486027 | 3.79766243 | 0.19823415 | 0.66095312 | 0.5006772 |
| Chst10   | 0.09024438 | 3.87552992 | 0.19799923 | 0.6611406 | 0.50076774 |
| Slc38a4  | 0.21214196 | 1.56652704 | 0.19795035 | 0.66117963 | 0.50076774 |
| Atxn7l3  | -0.0775986 | 5.96367307 | 0.19783508 | 0.66127168 | 0.50076774 |
| Snhg5    | -0.0882576 | 3.73901185 | 0.19781987 | 0.66128383 | 0.50076774 |
| Cdc16    | -0.0769308 | 4.94816157 | 0.19772501 | 0.66135962 | 0.50076774 |
| Pus1     | -0.1642304 | 2.33169202 | 0.19770028 | 0.66137938 | 0.50076774 |
| Snord71  | -0.6299926 | -1.3463177 | 0.19730446 | 0.66169586 | 0.50093662 |
| Zfp607   | 0.15446728 | 2.48139595 | 0.1972934 | 0.66170471 | 0.50093662 |
| Ccdc183  | 0.24919359 | 0.60674389 | 0.19721747 | 0.66176547 | 0.50094382 |
| Uspl1    | 0.05994525 | 5.10207478 | 0.19715372 | 0.66181649 | 0.50094382 |
| Tk1      | 0.45402096 | -0.8897527 | 0.19699341 | 0.66194483 | 0.50100225 |
| Symbol    | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Dcun1d4   | -0.0628673 | 7.403709 | 0.19670717 | 0.66217416 | 0.50107509 |
| Slc16a2   | 0.06642629 | 5.39027333 | 0.19662386 | 0.66224094 | 0.50107509 |
| Spag17    | -0.4415016 | 0.24423401 | 0.19660293 | 0.66225772 | 0.50107509 |
| Zranb1    | 0.06461198 | 4.76917413 | 0.19657618 | 0.66227917 | 0.50107509 |
| Mbtps2    | 0.07786489 | 4.92830405 | 0.19655414 | 0.66229685 | 0.50107509 |
| Entpd4    | -0.0662029 | 6.04676775 | 0.19630504 | 0.66249667 | 0.50118756 |
| Frmd4a    | 0.09037253 | 5.54003423 | 0.19605438 | 0.6626979 | 0.5012927 |
| Bnip1     | -0.1565156 | 2.16630286 | 0.19599423 | 0.66274621 | 0.5012927 |
| Gm14015   | -0.4814607 | -0.754935 | 0.19598729 | 0.66275179 | 0.5012927 |
| Patl1     | -0.0620754 | 6.17278137 | 0.19592952 | 0.6627982 | 0.5012927 |
| Large     | 0.07115013 | 6.42464331 | 0.19588483 | 0.66283411 | 0.5012927 |
| Mapt      | -0.0566385 | 6.89262027 | 0.19569771 | 0.66298451 | 0.50132431 |
| Zfp428    | -0.2098594 | 0.8567422 | 0.19562881 | 0.66303991 | 0.5013275 |
| Sfpq      | 0.061611 | 7.54784806 | 0.19543349 | 0.66319703 | 0.50138513 |
| Pycr2     | -0.1307921 | 2.68835934 | 0.19534547 | 0.66326786 | 0.50138513 |
| Syde2     | -0.1217108 | 3.66367295 | 0.1953432 | 0.66326968 | 0.50138513 |
| Pdia4     | -0.0726377 | 4.46957625 | 0.19524888 | 0.66334561 | 0.50140383 |
| Zfp251    | -0.0936577 | 3.78981328 | 0.19512198 | 0.6634478 | 0.50141565 |
| Ak5       | 0.07291192 | 6.20518148 | 0.19506259 | 0.66349564 | 0.50141565 |
| Tagap1    | 0.07285161 | 4.77504619 | 0.19503878 | 0.66351482 | 0.50141565 |
| Shf       | 0.20585445 | 1.94867076 | 0.19482867 | 0.66368415 | 0.50150492 |
| Lsm11     | -0.0760737 | 4.47219831 | 0.19463628 | 0.66383929 | 0.50158346 |
| Pja1      | -0.0528313 | 6.81192113 | 0.19451227 | 0.66393934 | 0.50162036 |
| Kcnc4     | -0.0959879 | 4.33426305 | 0.19436397 | 0.66405903 | 0.5016503 |
| Ccdc22    | 0.21821986 | 0.91836404 | 0.19427282 | 0.66413263 | 0.5016503 |
| Spryd4    | -0.1486588 | 2.31508092 | 0.19422607 | 0.66417039 | 0.5016503 |
| Atp8b4    | -0.4189132 | -0.8469891 | 0.19420943 | 0.66418382 | 0.5016503 |
| Hjurp     | 0.13032127 | 2.44062211 | 0.1941317 | 0.66424662 | 0.50165905 |
| Zc3h12c   | -0.0489912 | 6.25593924 | 0.19390986 | 0.6644259 | 0.50175576 |
| Rpusd3    | -0.2430445 | 0.91871578 | 0.1938465 | 0.66447713 | 0.50175576 |
| Rnf214    | 0.05197464 | 6.33644603 | 0.19373827 | 0.66456466 | 0.50178318 |
| Nkap      | -0.0818411 | 5.26887566 | 0.19339376 | 0.66488721 | 0.50198803 |
| Acn       | -0.0880477 | 3.94948651 | 0.19314444 | 0.66504544 | 0.50205734 |
| Gltsr2    | 0.1048671 | 5.54829414 | 0.19309991 | 0.66508152 | 0.50205734 |
| Inadl     | -0.0767285 | 3.94804209 | 0.19300233 | 0.66516062 | 0.50207836 |
| 49305000J02F | -0.4707194 | -0.6155177 | 0.19289402 | 0.66524845 | 0.50210596 |
| Ipo5      | -0.0584772 | 6.79794917 | 0.19269063 | 0.66541345 | 0.5021918 |
| Fktn      | 0.06500764 | 5.73022151 | 0.19241642 | 0.66563607 | 0.50231598 |
| Bcar3     | 0.11804261 | 2.67844132 | 0.19223658 | 0.66578218 | 0.50231598 |
| Foxq1     | -0.3321431 | 1.12475046 | 0.19220502 | 0.66580783 | 0.50231598 |
| Col27a1   | 0.17715049 | 2.12821318 | 0.19219744 | 0.66581399 | 0.50231598 |
| Retsat    | -0.1536779 | 2.56790834 | 0.19217233 | 0.6658344 | 0.50231598 |
| Ppt1      | -0.0593315 | 6.44486495 | 0.19210046 | 0.66589283 | 0.50232137 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Arf5   | -0.1225867 | 3.03196978 | 0.19178044 | 0.66615313 | 0.50242085 |
| Rab11fip3 | 0.05732669 | 6.19412059 | 0.19177699 | 0.66615594 | 0.50242085 |
| Naalad1 | 0.26638529 | 0.48937503 | 0.19174917 | 0.66617858 | 0.50242085 |
| Rem1   | -0.496469  | -0.5359513 | 0.19155077 | 0.66634011 | 0.50248567 |
| Mms22l | 0.22959162 | 0.73336835 | 0.19147962 | 0.66639806 | 0.50248567 |
| Smek2  | 0.05258289 | 6.69850331 | 0.19145463 | 0.66641842 | 0.50248567 |
| Mad2l1bp| -0.1666335 | 1.72148209 | 0.19127901 | 0.66656152 | 0.50249005 |
| Tmem81 | 0.24574535 | 0.54016435 | 0.19126625 | 0.66657193 | 0.50249005 |
| Stk32c | 0.11992754 | 2.62635104 | 0.19125865 | 0.66657812 | 0.50249005 |
| Zfp870 | 0.09475922 | 3.74149517 | 0.19085632 | 0.66690629 | 0.50269875 |
| Rnf121 | 0.21834077 | 0.95704987 | 0.19066763 | 0.66706034 | 0.50273563 |
| Rbp4   | -0.105648 | 4.08437903 | 0.19062714 | 0.66709341 | 0.50273563 |
| Paxip1 | 0.05216988 | 6.18251122 | 0.19046313 | 0.66722741 | 0.50273563 |
| Nova1  | -0.0602775 | 1.51070647 | 0.19043995 | 0.66724635 | 0.50273563 |
| Rheb1  | 0.27614484 | 0.05855139 | 0.19030145 | 0.66735956 | 0.50273563 |
| Zfp146 | -0.1040825 | 4.37017683 | 0.19020362 | 0.66743956 | 0.50273563 |
| 5330434G04 | 0.10603698 | 5.00213605 | 0.19019659 | 0.66744531 | 0.50273563 |
| Rnf168 | -0.0583299 | 6.53820425 | 0.1901878 | 0.6674525 | 0.50273563 |
| Wnt9a  | 0.11020481 | 3.82353206 | 0.19010083 | 0.66752364 | 0.50273563 |
| Ggnbp1 | 0.51123913 | -0.8377932 | 0.18996041 | 0.66763855 | 0.50273563 |
| Arrdc3 | -0.0810722 | 5.87080385 | 0.18991678 | 0.66767426 | 0.50273563 |
| Mir684-1| -0.2150386 | 0.23407638 | 0.1899167 | 0.66769481 | 0.50273563 |
| Iws1   | -0.0544369 | 6.44071015 | 0.18988797 | 0.66769784 | 0.50273563 |
| Bmi1   | -0.0656646 | 6.05149084 | 0.18986673 | 0.66771524 | 0.50273563 |
| Wdr61  | -0.0802331 | 4.33102401 | 0.1898547 | 0.66772508 | 0.50273563 |
| Ctsc   | -0.142657 | 2.05099363 | 0.18943728 | 0.66806707 | 0.50295446 |
| A330048O09 | 0.34162644 | 0.44010957 | 0.18921517 | 0.66824924 | 0.50303147 |
| Tceanc | -0.1188895 | 3.2960577 | 0.18916403 | 0.66829119 | 0.50303147 |
| Agtr1b | 0.25843897 | 2.19031854 | 0.18911819 | 0.66832881 | 0.50303147 |
| Itpk1  | -0.0830875 | 3.82827909 | 0.18900035 | 0.66842554 | 0.50303147 |
| Mmp24  | 0.14616241 | 2.48675089 | 0.18899963 | 0.66842613 | 0.50303147 |
| Top3a  | -0.1761268 | 0.99311995 | 0.18880616 | 0.66858501 | 0.50306231 |
| Rps6kl1| -0.1486041 | 2.37169747 | 0.1888038 | 0.66858695 | 0.50306231 |
| Mibp   | 0.1214263 | 3.81516301 | 0.18872425 | 0.6686523 | 0.50306231 |
| Pik3r1 | 0.05655222 | 8.09936598 | 0.18869963 | 0.66867254 | 0.50306231 |
| Taf4b  | -0.1014399 | 2.90213099 | 0.18858622 | 0.66876575 | 0.5030771 |
| G6pc3  | 0.09670819 | 3.9418678 | 0.18855073 | 0.66879493 | 0.5030771 |
| Cox10  | -0.0718768 | 4.25664074 | 0.1881268 | 0.66914369 | 0.5033008 |
| Lingo4 | 0.5576602 | -1.408254 | 0.18787155 | 0.66935391 | 0.50342026 |
| Zfp938 | -0.0873743 | 4.44416906 | 0.18773409 | 0.66946719 | 0.50344181 |
| Mob4   | 0.04797438 | 7.02416311 | 0.1876975 | 0.66949736 | 0.50344181 |
| SLC13A3| -0.1536371 | 6.93531399 | 0.1876436 | 0.66954179 | 0.50344181 |
| Nsun5  | 0.12568318 | 1.70862212 | 0.18758739 | 0.66958815 | 0.50344181 |
| Gene        | Rmdn2  | 3.71864916 | 0.18734441 | 0.6697886 | 0.50349199 |
|-------------|--------|------------|------------|-----------|------------|
| Ccdc163     | 0.3585964 | 0.00792254 | 0.18733667 | 0.66979499 | 0.50349199 |
| Dnah17      | 0.41316474 | -1.109053 | 0.18725603 | 0.66986155 | 0.50349199 |
| Mtmr12      | -0.049299 | 6.44446954 | 0.18716956 | 0.66993294 | 0.50349199 |
| 2610306M01  | -0.1163983 | 2.61735373 | 0.18712134 | 0.66997276 | 0.50349199 |
| Rel         | -0.0684828 | 4.52771932 | 0.18707555 | 0.67001059 | 0.50349199 |
| Tab1        | -0.1237282 | 2.84188839 | 0.18702263 | 0.6700543  | 0.50349199 |
| Ccng2       | -0.0888934 | 4.33906316 | 0.18700835 | 0.6700661  | 0.50349199 |
| Psmg3       | 0.16661527 | 2.00134747 | 0.1869147  | 0.67014348 | 0.50351151 |
| D730005E14  | -0.5749431 | -1.8001265 | 0.18668041 | 0.67033718 | 0.50361842 |
| Coq10b      | -0.0750022 | 5.61281997 | 0.18648311 | 0.67050042 | 0.50363505 |
| Pibf1       | -0.0914574 | 4.56124547 | 0.18646099 | 0.67051872 | 0.50363505 |
| 4930452G13  | -0.5679576 | -1.7082756 | 0.18644326 | 0.67053339 | 0.50363505 |
| Ube2v1      | -0.0705699 | 6.89310435 | 0.1863974  | 0.67057135 | 0.50363505 |
| Khl7        | 0.05925887 | 6.31339067 | 0.18625899 | 0.67068596 | 0.50363505 |
| Prpsap2     | -0.0762429 | 4.20561193 | 0.18623847 | 0.67070295 | 0.50363505 |
| Tuft1       | 0.26348796 | 0.44373696 | 0.18621882 | 0.67071922 | 0.50363505 |
| Pygb        | -0.0605755 | 6.4839507  | 0.18602339 | 0.67088114 | 0.50363595 |
| Hddc2       | -0.0862487 | 3.66227842 | 0.18596384 | 0.6709305  | 0.50363595 |
| C87436      | -0.1164447 | 3.60586379 | 0.18595854 | 0.6709349  | 0.50363595 |
| Ripply3     | 0.20759716 | 1.46341984 | 0.18590045 | 0.67098306 | 0.50363505 |
| Pank1       | 0.057183 | 6.29469563 | 0.18587822 | 0.67100149 | 0.50363595 |
| A230103J11f | -0.1605325 | 1.99749863 | 0.18566414 | 0.67117906 | 0.50374864 |
| Ndufa7      | -0.1072891 | 4.6453274  | 0.18542994 | 0.67137347 | 0.50385594 |
| Rasgrp2     | 0.10426884 | 2.56032541 | 0.18521349 | 0.67155326 | 0.50393279 |
| Exog        | -0.1108599 | 2.92209593 | 0.1851828  | 0.67157876 | 0.50393279 |
| Tmem101     | 0.1815898 | 2.47401716 | 0.18494084 | 0.67177992 | 0.50396611 |
| Plekh1      | -0.068853 | 5.36137989 | 0.1849197  | 0.6717975  | 0.50396611 |
| Asphd1      | 0.1109941 | 2.41463671 | 0.18475635 | 0.67193341 | 0.50396611 |
| 2310001H17  | -0.4741683 | -0.9587405 | 0.18470069 | 0.67197973 | 0.50396611 |
| Pik3cb      | -0.0666567 | 5.5200715 | 0.18469321 | 0.67198596 | 0.50396611 |
| Eif2b4      | -0.1083246 | 3.19675848 | 0.18468476 | 0.67199299 | 0.50396611 |
| Sema6c      | -0.2312545 | 0.69316727 | 0.18466876 | 0.67200631 | 0.50396611 |
| Mk67        | 0.0880157 | 3.76884703 | 0.18463458 | 0.67203476 | 0.50396611 |
| Mks1        | 0.29133512 | 0.20709525 | 0.1845319  | 0.67212025 | 0.50399164 |
| Clqa        | -0.4119123 | -1.5955507 | 0.18446248 | 0.67217807 | 0.50399641 |
| Smad4       | 0.05356627 | 5.86879899 | 0.18436161 | 0.67226211 | 0.50402084 |
| Efn4        | -0.2214627 | 1.84046717 | 0.18410665 | 0.67247464 | 0.50411361 |
| Laptm5      | -0.1622185 | 3.30029559 | 0.1840897  | 0.67248878 | 0.50411361 |
| Sik1        | 0.09011554 | 4.19170344 | 0.18402152 | 0.67254565 | 0.50417166 |
| Nipa1       | -0.0784515 | 4.82904993 | 0.18390332 | 0.67264426 | 0.504153 |
| Hdac3       | -0.0789207 | 4.7598794  | 0.18358328 | 0.67291147 | 0.5042766 |
| 3110052M02  | 0.06738756 | 4.84073189 | 0.18358249 | 0.67291213 | 0.5042766 |
| gene  | value1  | value2  | value3  | value4  | value5  | value6  |
|-------|---------|---------|---------|---------|---------|---------|
| Aldh6a1 | -0.207649 | 1.71551037 | 0.18328553 | 0.67316032 | 0.504424 |
| Jakmip2 | 0.06913461 | 6.83067057 | 0.18306691 | 0.67334318 | 0.50451654 |
| Gm5801 | -0.2723135 | -0.3960546 | 0.18298306 | 0.67341335 | 0.50451654 |
| Pank2  | -0.0692281 | 5.50651976 | 0.18295321 | 0.67343833 | 0.50451654 |
| Rgl3   | 0.25448557 | 0.42338172 | 0.18269623 | 0.67365353 | 0.50462785 |
| Slc38a9 | 0.10977254 | 4.58404155 | 0.18265277 | 0.67368994 | 0.50462785 |
| Fdxacb1 | 0.20125978 | 1.52243624 | 0.18236698 | 0.67392951 | 0.50469957 |
| Ngly1  | -0.067538  | 5.55152088 | 0.18230904 | 0.67397811 | 0.50469957 |
| Ngf    | 0.21675625 | 4.8562194  | 0.18227743 | 0.67400462 | 0.50469957 |
| Kdelr1 | -0.0884751| 4.34912127 | 0.18222041 | 0.67405246 | 0.50469957 |
| Ip6k1  | -0.0701273 | 5.79046022 | 0.18218996 | 0.67407801 | 0.50469957 |
| Itga2  | 0.39766318 | 0.13157257 | 0.18216991 | 0.67409484 | 0.50469957 |
| Lqcg   | -0.1061209 | 2.95988689 | 0.18207651 | 0.67417324 | 0.5047015 |
| Eif4ebp1 | 0.16370879 | 1.68990599 | 0.18204407 | 0.67420047 | 0.5047015 |
| Mmp28  | -0.337033  | 0.01821936 | 0.18175714 | 0.67444147 | 0.50484333 |
| Prob1  | -0.1498591 | 1.69995626 | 0.18164512 | 0.67453562 | 0.50487523 |
| Tmbim4 | 0.09174234 | 4.59340577 | 0.18157956 | 0.67459377 | 0.50488017 |
| Apex1  | -0.3989764 | -1.045947  | 0.18138901 | 0.67475101 | 0.50489931 |
| Eif3b  | 0.07783054 | 3.89303819 | 0.18136425 | 0.67477184 | 0.50489931 |
| Selplg | -0.2114366 | 0.91735611 | 0.18136171 | 0.67477398 | 0.50489931 |
| Enpp6  | 0.13438244 | 2.77992828 | 0.18126753 | 0.67485324 | 0.50492005 |
| Pnpla6 | 0.10502534 | 4.04739104 | 0.18113715 | 0.674963  | 0.50495887 |
| Ttc8   | 0.06095583 | 4.70920459 | 0.18108344 | 0.67500823 | 0.50495887 |
| Sox12  | -0.1075271 | 2.99499347 | 0.18086452 | 0.67519266 | 0.5050197 |
| Lrrc18 | 0.12102955 | 2.93618998 | 0.18061136 | 0.67540612 | 0.50514079 |
| Zc4h2  | 0.06718453 | 4.71566266 | 0.18050134 | 0.67549893 | 0.50517163 |
| Rufy3  | 0.06236183 | 8.36759982 | 0.18043234 | 0.67555716 | 0.50517661 |
| Nfatc1 | -0.082206  | 3.99991759 | 0.18020068 | 0.67575276 | 0.5052843 |
| Lnx2   | 0.07107267 | 4.43629105 | 0.17993301 | 0.67597894 | 0.50532132 |
| Hcst   | 0.57648975 | -1.5368851 | 0.17987861 | 0.67602494 | 0.50532132 |
| Mtmr9  | -0.0827462 | 3.64425542 | 0.17986954 | 0.6760326 | 0.50532132 |
| Hist1h4h | -0.4042936 | -1.3963942 | 0.17982048 | 0.67607409 | 0.50532132 |
| Aoc3   | 0.24311242 | 3.81818364 | 0.17979217 | 0.67609803 | 0.50532132 |
| Taf11  | -0.0680689 | 5.26365295 | 0.17972906 | 0.67615141 | 0.50532132 |
| Hspn1  | 0.06546908 | 9.09662742 | 0.17971491 | 0.67616338 | 0.50532132 |
| Decr2  | -0.0600733 | 5.53851873 | 0.17957422 | 0.67628244 | 0.50537174 |
| Col2a1 | 0.46003971 | -1.1175281 | 0.17948049 | 0.67636178 | 0.5053805 |
| Vasp   | -0.1520264 | 3.48114641 | 0.17943848 | 0.67639735 | 0.5053805 |
| Polg   | 0.09409262 | 3.26366115 | 0.17934988 | 0.67647239 | 0.50539801 |
| Pias2  | 0.05373365 | 6.01353074 | 0.17910257 | 0.67668195 | 0.50541777 |
| Megf9  | -0.0646033 | 5.961198  | 0.17904503 | 0.67673072 | 0.50541777 |
| Aldh6a1 | 0.06687578 | 5.93071237 | 0.17904356 | 0.67673197 | 0.50541777 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Slc39a13 | 0.10034901 | 5.17208541 | 0.17904119 | 0.67673399 | 0.50541777 |
| Rwdd4a  | -0.0651709 | 5.61345418 | 0.17901425 | 0.67675682 | 0.50541777 |
| Arhgef33 | -0.3111995 | -0.5838041 | 0.1787734 | 0.67696114 | 0.50550143 |
| Poc1b   | -0.0798632 | 4.59320195 | 0.17876053 | 0.67697206 | 0.50550143 |
| Txlna   | 0.06407139 | 5.13475204 | 0.1786357 | 0.67707802 | 0.50554202 |
| Fbxo25  | -0.0718362 | 4.92372084 | 0.17842179 | 0.6772597 | 0.50560709 |
| Smarcc2 | -0.0474571 | 8.25320197 | 0.1783548 | 0.67731662 | 0.50560709 |
| Ndufb2  | -0.0739787 | 3.99487828 | 0.17825189 | 0.67740409 | 0.50560709 |
| Snph    | 0.08247981 | 5.88306559 | 0.17822579 | 0.67742628 | 0.50560709 |
| Evpl    | -0.2153622 | 1.2386368 | 0.17817836 | 0.67746661 | 0.50560709 |
| Cacna1f | 0.44477177 | -0.5969001 | 0.17816864 | 0.67747488 | 0.50560709 |
| Ccdc18  | 0.20189247 | 1.71139588 | 0.17804499 | 0.67758004 | 0.50563345 |
| Mrrf    | -0.0761905 | 3.972877 | 0.17800573 | 0.67761344 | 0.50563345 |
| Gyltl1b | -0.4999968 | -1.9403739 | 0.17768442 | 0.67788696 | 0.50571445 |
| Elmod2  | -0.083532 | 3.45349902 | 0.17764757 | 0.67791834 | 0.50571445 |
| Cdc42bpq| -0.1651702 | 1.33986723 | 0.17761034 | 0.67795006 | 0.50571445 |
| 6030458C11I | 0.08716475 | 4.92836648 | 0.17758674 | 0.67797016 | 0.50571445 |
| Slc25a39 | -0.1039171 | 4.37736588 | 0.17757505 | 0.67798012 | 0.50571445 |
| Steap4  | 0.48639829 | 0.17579235 | 0.17723949 | 0.67826618 | 0.50581615 |
| Obfc1   | 0.11061895 | 2.73504634 | 0.17719139 | 0.67830722 | 0.50581615 |
| Ipp     | -0.0958866 | 3.30453463 | 0.17717577 | 0.67832055 | 0.50581615 |
| Rag1    | -1.0439719 | -1.9203626 | 0.17713414 | 0.67835606 | 0.50581615 |
| Tom1l2  | 0.05379224 | 7.57538087 | 0.17711236 | 0.67837465 | 0.50581615 |
| Rab8b   | -0.0564187 | 6.34753689 | 0.1767055 | 0.67872208 | 0.50601562 |
| Mgl1    | -0.062648 | 5.42694072 | 0.17658378 | 0.6788261 | 0.50601562 |
| Iff2    | -0.0750693 | 5.70695281 | 0.17657652 | 0.67883231 | 0.50601562 |
| Pold4   | -0.1580678 | 2.12316132 | 0.17655722 | 0.67884881 | 0.50601562 |
| Pdlim2  | 0.1261832 | 3.29156799 | 0.17641277 | 0.67897234 | 0.50606918 |
| Memp1   | -0.309518 | 0.11998169 | 0.17624859 | 0.67911281 | 0.50613537 |
| Zcchc6  | -0.0439541 | 7.22987234 | 0.17595021 | 0.6793683 | 0.50625265 |
| Ubash3a | -0.5336276 | -1.2589354 | 0.17592546 | 0.6793895 | 0.50625265 |
| Pafah2  | 0.09138068 | 3.40663434 | 0.17587337 | 0.67943413 | 0.50625265 |
| Cog7    | -0.095593 | 4.52669569 | 0.17569859 | 0.67958394 | 0.50625265 |
| Iffo1   | 0.11688076 | 3.77255364 | 0.17567438 | 0.6796047 | 0.50625265 |
| Oxl14   | 0.08366049 | 3.20959099 | 0.17565313 | 0.67962292 | 0.50625265 |
| Ccn1l   | -0.1165532 | 4.7158139 | 0.1756426 | 0.67963195 | 0.50625265 |
| Gm4944  | 0.07308645 | 4.17769705 | 0.17552068 | 0.67973653 | 0.50629205 |
| Arhgdig | -0.1264767 | 3.12759263 | 0.17540885 | 0.67983248 | 0.50631801 |
| Nynrin  | 0.0685577 | 5.67264852 | 0.17535959 | 0.67987477 | 0.50631801 |
| HSDL1   | 0.0880381 | 4.27791316 | 0.17526335 | 0.67995739 | 0.50634104 |
| Slc27a4 | 0.09355851 | 3.48703901 | 0.17519286 | 0.68001792 | 0.50634763 |
| AA986860 | 0.14435326 | 1.71718232 | 0.17502662 | 0.68016074 | 0.50641547 |
| Tmc05   | -0.2354503 | 0.61873959 | 0.17481358 | 0.68034388 | 0.50651333 |
| Gene  | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|-------|---------|---------|---------|---------|---------|---------|
| Ctsa  | -0.0782904 | 5.4161235 | 0.17459556 | 0.68053144 | 0.50661446 |
| Pnp2  | 0.28435553 | -0.4451936 | 0.17446001 | 0.68064812 | 0.50666282 |
| Tm9sf3| 0.05115901 | 7.28578233 | 0.17419494 | 0.68087648 | 0.50675676 |
| Sox8  | -0.1146585 | 3.86421144 | 0.17417168 | 0.68089649 | 0.50675676 |
| Mbd5  | 0.06534323 | 7.79862583 | 0.17407681 | 0.68097827 | 0.50675676 |
| Cp    | -0.0740963 | 7.00285072 | 0.17407334 | 0.68098126 | 0.50675676 |
| Hps1  | -0.1757533 | 1.40435611 | 0.17376511 | 0.68124712 | 0.5069161 |
| Zscan2| 0.19253598 | 1.3090685 | 0.17361693 | 0.68137504 | 0.50697277 |
| Hsd17b2| 0.2463277 | 1.4829574 | 0.17339831 | 0.68156387 | 0.50703624 |
| Fyn   | 0.04970929 | 6.00425844 | 0.17320845 | 0.68172799 | 0.50709404 |
| Al182371| -0.6756365 | -2.1088921 | 0.17317156 | 0.68175989 | 0.50709404 |
| Nsfl1c| -0.0727587 | 5.06797912 | 0.17312879 | 0.68179688 | 0.50709404 |
| Tmem179b| 0.13058978 | 3.23647778 | 0.17302011 | 0.68189089 | 0.50710678 |
| Olig1 | -0.0747908 | 4.07031576 | 0.1729893 | 0.68191755 | 0.50710678 |
| Acbd7 | -0.3840324 | -1.2442013 | 0.17276464 | 0.68211202 | 0.5072129 |
| Prss36| -0.2291916 | 0.86859551 | 0.17247449 | 0.68236341 | 0.50736131 |
| Slpi  | 0.52587577 | -1.3967674 | 0.17236427 | 0.68245897 | 0.50739384 |
| Gm10336| 0.09488592 | 4.45239221 | 0.17182155 | 0.68293003 | 0.50770553 |
| S100a13| -0.1776518 | 3.41422825 | 0.17171778 | 0.6830202 | 0.50772852 |
| Il12rb2| 0.16242846 | 2.58358439 | 0.17163597 | 0.6830913 | 0.50772852 |
| Cyb5r1| -0.4747686 | -0.4919336 | 0.17160705 | 0.68311645 | 0.50772852 |
| Sec13 | -0.0616909 | 4.60747021 | 0.17141082 | 0.68328711 | 0.50776579 |
| Tmem168| -0.1004521 | 3.25320225 | 0.17140144 | 0.68329527 | 0.50776579 |
| Supt4a| -0.1129913 | 4.73820163 | 0.17136781 | 0.68332453 | 0.50776579 |
| Fhl4  | 0.24869994 | 0.87634716 | 0.17123816 | 0.68343737 | 0.50779889 |
| Dkk3  | 0.06458926 | 8.69595645 | 0.17120029 | 0.68347033 | 0.50779889 |
| Rock1 | 0.06766329 | 8.00893157 | 0.17105298 | 0.68359862 | 0.50782463 |
| Col4a4| -0.4761543 | -0.8139241 | 0.17104145 | 0.68360867 | 0.50782463 |
| Lgi4  | -0.1804949 | 1.45022589 | 0.17074855 | 0.68386394 | 0.50795374 |
| Xrcc4 | 0.08789523 | 3.43775911 | 0.17070739 | 0.68389983 | 0.50795374 |
| Igf2  | -0.1015995 | 10.4379258 | 0.17063778 | 0.68396054 | 0.50795374 |
| Gm3696| 0.21178007 | 0.04726077 | 0.17060414 | 0.68398989 | 0.50795374 |
| Kcnd1 | 0.13751081 | 2.40261102 | 0.17041392 | 0.6841559 | 0.5080385 |
| Pagr1a| 0.08771804 | 3.04353143 | 0.17031557 | 0.68424177 | 0.50806375 |
| Slc16a11| -0.113372 | 3.31827081 | 0.16976904 | 0.6847195 | 0.50837994 |
| Zc2hc1a| 0.05748054 | 7.30989653 | 0.16968088 | 0.68479664 | 0.50839868 |
| Rab39b| 0.06419819 | 7.4306171 | 0.16956731 | 0.68489606 | 0.50843396 |
| Asns  | 0.08086017 | 5.25667555 | 0.16937401 | 0.68506536 | 0.5085211 |
| Fbxo16| 0.12762405 | 2.08289641 | 0.16926467 | 0.68516118 | 0.50855368 |
| Timm22| -0.0839991 | 3.87699275 | 0.16909996 | 0.68530558 | 0.50862232 |
| Clk2  | -0.071752 | 5.15025855 | 0.16839779 | 0.68592212 | 0.5089372 |
| Slc6a20b| -0.1268788 | 1.71811984 | 0.16838291 | 0.6859352 | 0.5089372 |
| Gene | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  | Value11  |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Elp3 | -0.0574638 | 5.3579593 | 0.16829916 | 0.68600884 | 0.5089372 |
| Maml1 | -0.0631158 | 5.19911972 | 0.16823924 | 0.68606154 | 0.5089372 |
| 0610040B10 | 0.28138578 | 0.65165979 | 0.16815936 | 0.68613182 | 0.5089372 |
| Maml3 | -0.0698305 | 4.82223032 | 0.16815673 | 0.68613413 | 0.5089372 |
| Nop2 | 0.11931146 | 2.78938159 | 0.1681538 | 0.68613671 | 0.5089372 |
| Aim2 | -0.1824309 | 2.19248865 | 0.16814381 | 0.6861455 | 0.5089372 |
| Rasgrp3 | 0.07779726 | 4.97241042 | 0.16807753 | 0.68620382 | 0.50894193 |
| Ifit1 | 0.09947004 | 6.03124522 | 0.16788249 | 0.68637553 | 0.50903074 |
| Mis12 | -0.0665475 | 5.24682689 | 0.16778421 | 0.6864621 | 0.5090564 |
| Vsig10l | -0.1432535 | 2.41814072 | 0.16752609 | 0.68668962 | 0.50918657 |
| Rnf19a | -0.0510042 | 6.03704394 | 0.16733153 | 0.68686124 | 0.50927527 |
| Hepacam2 | 0.28715171 | 0.47403687 | 0.1671728 | 0.68700134 | 0.5093406 |
| Fam154a | 0.60640676 | -1.9889816 | 0.16689175 | 0.6872496 | 0.50948005 |
| Col9a2 | 0.13286056 | 2.67963195 | 0.16683398 | 0.68730067 | 0.50948005 |
| Txnrd3 | -0.1012437 | 3.37677223 | 0.16673676 | 0.68738667 | 0.50948005 |
| Cst6 | -0.3642853 | -0.7388505 | 0.16672447 | 0.68739749 | 0.50948005 |
| Ddx46 | 0.0462969 | 7.32957545 | 0.16656882 | 0.68753516 | 0.50950134 |
| Tk2 | 0.11765846 | 3.29112277 | 0.1664066 | 0.68767873 | 0.50950134 |
| Ipox | 0.06728094 | 5.39730335 | 0.16634691 | 0.68773158 | 0.50950134 |
| Pigx | -0.1186581 | 2.84092419 | 0.16626832 | 0.68780118 | 0.50950134 |
| Dnajc14 | -0.089918 | 4.30884159 | 0.16624879 | 0.68781848 | 0.50950134 |
| Podn | 0.09252082 | 5.0364247 | 0.16624277 | 0.68782381 | 0.50950134 |
| Ptprn2 | 0.05556625 | 7.30390433 | 0.16614893 | 0.68790695 | 0.50950134 |
| Tmem180 | 0.12135789 | 2.4419611 | 0.16611297 | 0.68793881 | 0.50950134 |
| Prkra | -0.0806726 | 3.57028419 | 0.16610843 | 0.68794284 | 0.50950134 |
| Ptgrf | -0.1246816 | 4.72271228 | 0.16604471 | 0.68799931 | 0.50950134 |
| Manbal | 0.10194568 | 3.04796041 | 0.16597483 | 0.68806126 | 0.50950134 |
| Ccdc105 | 0.40819158 | -0.7318402 | 0.16587488 | 0.68814989 | 0.50950134 |
| Cyp2d22 | 0.09968685 | 3.38887593 | 0.16579511 | 0.68822066 | 0.50950134 |
| A230072E10 | -0.2565433 | 0.01454531 | 0.16575714 | 0.68825435 | 0.50950134 |
| 9530068E071 | -0.0925216 | 6.71850553 | 0.16575573 | 0.6882556 | 0.50950134 |
| Tmem135 | -0.0449293 | 6.07846201 | 0.16575252 | 0.68825845 | 0.50950134 |
| Aldh3b1 | 0.21439323 | 0.86317787 | 0.16565365 | 0.68834619 | 0.50952779 |
| Mark3 | 0.04657391 | 6.40504925 | 0.16552892 | 0.68845693 | 0.50953031 |
| Igf6 | 0.18704067 | 1.69934988 | 0.16544002 | 0.68853573 | 0.50953031 |
| Itprp | -0.3409385 | -0.6277225 | 0.16541523 | 0.68855791 | 0.50953031 |
| Alk | 0.23536665 | 0.73476148 | 0.16539755 | 0.68857362 | 0.50953031 |
| Galnt3 | -0.4767025 | -0.752167 | 0.16532859 | 0.6886349 | 0.50953031 |
| Lactb2 | -0.097109 | 3.85021558 | 0.16529843 | 0.6886617 | 0.50953031 |
| Svil | -0.0820501 | 4.74877453 | 0.16519165 | 0.68875662 | 0.50956205 |
| D230025D16 | 0.0529179 | 5.65065119 | 0.16469221 | 0.68920106 | 0.50985235 |
| 1600023N17 | -0.4021958 | -0.9773858 | 0.16441807 | 0.68944535 | 0.50992605 |
| Pigb | -0.1228056 | 2.54584533 | 0.16441623 | 0.68944699 | 0.50992605 |
| Gene       | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|----------|
| Nlrp5-ps   | 0.0675587 | 5.81766145 | 0.16433529 | 0.68951916 | 0.50992605 |
| Hspa1b     | 0.12186363 | 2.12639653 | 0.16430537 | 0.68954584 | 0.50992605 |
| Vps53      | -0.0515559 | 6.21974496 | 0.16428841 | 0.68956097 | 0.50992605 |
| Baz1a      | -0.0765208 | 4.11718974 | 0.16414907 | 0.68968528 | 0.50995856 |
| Tinag1     | 0.25835069 | 0.32428798 | 0.16412243 | 0.68970906 | 0.50995856 |
| 4933413G19 | 0.67734549 | -1.7289615 | 0.163965 | 0.6898496 | 0.51002398 |
| Ilkbp      | 0.10970839 | 4.11084961 | 0.16387997 | 0.68992555 | 0.51004163 |
| Gipc1      | 0.13235611 | 3.03328594 | 0.16366354 | 0.69011895 | 0.51012019 |
| Ftsj1      | 0.0749196 | 3.73079047 | 0.1636445 | 0.69013597 | 0.51012019 |
| Mrps35     | -0.0973185 | 3.99390383 | 0.16346071 | 0.69030034 | 0.51020318 |
| Mboat1     | 0.26629583 | 0.97998995 | 0.16304961 | 0.69066838 | 0.51043668 |
| Gbp7       | -0.0765446 | 4.86337133 | 0.16293324 | 0.69077266 | 0.51047214 |
| Vwa9       | 0.06752626 | 4.48041734 | 0.16285914 | 0.69083908 | 0.51047214 |
| Map6       | -0.08522505 | 5.70222243 | 0.16282165 | 0.69087269 | 0.51047214 |
| Rpn1       | 0.0681557 | 5.65877509 | 0.16238726 | 0.69126249 | 0.510685 |
| Tiparp     | 0.05548483 | 4.91605335 | 0.1623742 | 0.69127422 | 0.510685 |
| Bmp15      | 0.16354173 | 2.22693816 | 0.16226499 | 0.69137232 | 0.510685 |
| B9d1       | -0.1137022 | 2.37419088 | 0.16222575 | 0.69140758 | 0.510685 |
| Zfp64      | 0.09486755 | 2.7789355 | 0.16216617 | 0.69146112 | 0.510685 |
| Epn1       | 0.06588927 | 4.47923716 | 0.16215229 | 0.69147359 | 0.510685 |
| Ankra2     | 0.08178022 | 3.44615038 | 0.161951 | 0.69165458 | 0.51076782 |
| A330050F15 | -0.1692596 | 2.27249062 | 0.16184565 | 0.69174936 | 0.51076782 |
| Fxr2       | -0.0845847 | 3.71798348 | 0.16183056 | 0.69176294 | 0.51076782 |
| Dis31      | 0.07107857 | 3.87216742 | 0.1617957 | 0.69179431 | 0.51076782 |
| Zswim1     | -0.0731204 | 3.84826167 | 0.16163235 | 0.69194136 | 0.5108325 |
| Msln       | 0.16929239 | 2.22083589 | 0.16158255 | 0.69198621 | 0.5108325 |
| Cdk1       | -0.1417617 | 2.6430747 | 0.16146919 | 0.69208833 | 0.51084951 |
| Cd79b      | -0.4730208 | -1.9913514 | 0.16143251 | 0.69212138 | 0.51084951 |
| Gm13212    | -0.1307046 | 1.56577892 | 0.16134007 | 0.69220469 | 0.51084951 |
| Mlycd      | -0.0835973 | 3.16265208 | 0.16129986 | 0.69224094 | 0.51084951 |
| Trp53inp2  | -0.0424656 | 7.84324072 | 0.16126762 | 0.69227002 | 0.51084951 |
| Gimap7     | -0.3270329 | 0.15483927 | 0.16105996 | 0.69245733 | 0.51092192 |
| Tub        | 0.08637062 | 6.11922784 | 0.16099069 | 0.69251985 | 0.51092192 |
| Fntb       | -0.0801278 | 4.03066677 | 0.16094312 | 0.69256278 | 0.51092192 |
| Dab2       | -0.0725533 | 8.40747023 | 0.16092763 | 0.69257677 | 0.51092192 |
| Crhbp      | 0.15583199 | 3.05964508 | 0.1607417 | 0.69274468 | 0.5110073 |
| Upf3b      | 0.07006379 | 5.6288383 | 0.1602957 | 0.69314793 | 0.51122554 |
| Nadsyn1    | -0.1418105 | 1.37774701 | 0.16025955 | 0.69318065 | 0.51122554 |
| Zfp944     | 0.0819441 | 3.91730998 | 0.16018775 | 0.69324563 | 0.51122554 |
| ChRNA3     | -0.2447416 | 0.04976638 | 0.1601131 | 0.69331321 | 0.51122554 |
| Hcrt2      | 0.21277615 | 0.50982421 | 0.16011107 | 0.69331505 | 0.51122554 |
| Sema3b     | 0.18260584 | 2.712754 | 0.16006842 | 0.69335368 | 0.51122554 |
| Nlrp5-ps   | 0.26769266 | 0.46725446 | 0.15994144 | 0.6934687 | 0.51125128 |
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|-------|--------|--------|--------|--------|--------|--------|
| Plscr3 | 0.17867162 | 1.25531177 | 0.15989718 | 0.6935088 | 0.51125128 |
| Tmem44 | 0.06797236 | 4.61437698 | 0.15985705 | 0.69354517 | 0.51125128 |
| Atp1b2 | -0.0668057 | 9.04784506 | 0.15955651 | 0.6938177 | 0.51137402 |
| Ndel1 | -0.0679692 | 4.91685716 | 0.15954995 | 0.69382366 | 0.51137402 |
| Rab17 | -0.4825325 | -1.5520423 | 0.15944878 | 0.69391547 | 0.51137402 |
| Synpo | -0.0508017 | 6.50701661 | 0.15944323 | 0.69392051 | 0.51137402 |
| Wbscr16 | -0.1512895 | 1.98241993 | 0.15910443 | 0.69422822 | 0.5115623 |
| Tmed9 | 0.04878989 | 6.26273586 | 0.15904016 | 0.69428665 | 0.51156687 |
| Shmt1 | 0.43728071 | -0.4443665 | 0.15891728 | 0.69439837 | 0.5116107 |
| Cxcl10 | 0.17867303 | 2.81711053 | 0.15875832 | 0.69454297 | 0.51164973 |
| Fhl5 | -0.9853784 | -2.2783668 | 0.15874422 | 0.69455581 | 0.51164973 |
| B3galt5 | 0.12152463 | 3.22309558 | 0.15853404 | 0.69474715 | 0.51174156 |
| Nfam1 | -0.2521144 | 1.15050389 | 0.15849253 | 0.69478495 | 0.51174156 |
| Rnase1 | -0.4511678 | -0.8983568 | 0.15834579 | 0.69491866 | 0.51178882 |
| Siah3 | 0.18763216 | 0.8095347 | 0.15830743 | 0.69495361 | 0.51178882 |
| Tmed1 | -0.2091343 | 1.04176317 | 0.15793651 | 0.69529193 | 0.51197197 |
| Rai14 | -0.0713786 | 6.49851665 | 0.15792018 | 0.69530684 | 0.51197197 |
| Fh1 | 0.05853622 | 5.26825445 | 0.15777909 | 0.69543566 | 0.51200096 |
| Kif11 | -0.1395335 | 2.2910576 | 0.15776256 | 0.69545075 | 0.51200096 |
| Elov6 | 0.06475556 | 6.01508993 | 0.15760058 | 0.69559873 | 0.51205936 |
| Srsf5 | 0.04230158 | 8.08877558 | 0.15747784 | 0.69571093 | 0.51205936 |
| Aacs | -0.1024147 | 2.68904219 | 0.15743592 | 0.69574926 | 0.51205936 |
| 1200014J11F | 0.053488 | 5.36314191 | 0.15742778 | 0.6957567 | 0.51205936 |
| Sec14I5 | 0.39485232 | -1.0991668 | 0.15738978 | 0.69579146 | 0.51205936 |
| Enpp2 | 0.05819297 | 8.24836656 | 0.15718619 | 0.69597772 | 0.5121352 |
| Ttll13 | 0.37982878 | -0.9046798 | 0.15716286 | 0.69599908 | 0.5121352 |
| Fxyl1 | 0.10045246 | 3.46058344 | 0.15704492 | 0.69610705 | 0.51217618 |
| Lcorl | -0.0622854 | 5.13712707 | 0.15693638 | 0.69620647 | 0.51221085 |
| Paqr6 | -0.1280189 | 2.09604064 | 0.1567785 | 0.69635115 | 0.51227882 |
| Thoc3 | 0.10162787 | 4.17805033 | 0.15668408 | 0.69643772 | 0.51230403 |
| Ube2j2 | -0.0950701 | 2.89842445 | 0.15656127 | 0.69655035 | 0.51231959 |
| Cadm3 | 0.0673929 | 7.86896536 | 0.15654696 | 0.69656348 | 0.51231959 |
| Chrm1 | 0.05938688 | 5.75229557 | 0.15617126 | 0.6969084 | 0.5123548 |
| R3hcc1l | -0.0637532 | 4.57641189 | 0.15606811 | 0.69700318 | 0.51256602 |
| Tmeff1 | -0.0711256 | 5.11783559 | 0.15587721 | 0.69717869 | 0.51260899 |
| Yy1 | 0.05403787 | 5.38509177 | 0.15587717 | 0.69717873 | 0.51260899 |
| Arl1 | -0.0959803 | 3.68099753 | 0.15579766 | 0.69725187 | 0.51260899 |
| Mir17hg | 0.58286737 | -1.6099372 | 0.15577693 | 0.69727095 | 0.51260899 |
| El2 | 0.05192913 | 6.02742888 | 0.15562389 | 0.69741179 | 0.5126357 |
| Cpne3 | -0.0618724 | 7.19702496 | 0.15562372 | 0.69741195 | 0.5126357 |
| Kcnq3 | -0.1643236 | 3.24075379 | 0.15555248 | 0.69747754 | 0.51264544 |
| 4933412O06 | -0.2408383 | 1.25724567 | 0.15540677 | 0.69761175 | 0.51270562 |
| Ptplad1 | 0.04568404 | 6.68911998 | 0.15524766 | 0.69775839 | 0.51277492 |
| Gene     | Value 1     | Value 2     | Value 3     | Value 4     | Value 5     |
|----------|-------------|-------------|-------------|-------------|-------------|
| Ccdc81   | -0.313935   | 0.12320534  | 0.15502434  | 0.69796436  | 0.51284599  |
| Hdac2    | 0.04608609  | 7.14680496  | 0.1549846   | 0.69800102  | 0.51284599  |
| Epb4.1l4b| 0.09372973  | 3.33579708  | 0.15497252  | 0.69801217  | 0.51284599  |
| Trpa1    | 0.37988305  | -0.9427308  | 0.15476283  | 0.69820575  | 0.51294974  |
| Hk1      | 0.0818749   | 5.81242358  | 0.15461713  | 0.69834035  | 0.51295761  |
| Hspa9    | 0.04577401  | 7.14680496  | 0.1549846   | 0.69837149  | 0.51295761  |
| C77080   | -0.0818066  | 5.81398474  | 0.1545748   | 0.69837947  | 0.51295761  |
| Pla2g15  | -0.1610911  | 2.06800813  | 0.15439464  | 0.69854603  | 0.51295761  |
| Efemp2   | 0.14261123  | 2.75571536  | 0.15438974  | 0.69855057  | 0.51295761  |
| Vapb     | -0.043364   | 6.66791428  | 0.1543518   | 0.69858566  | 0.51295761  |
| B230319C09| -0.38411    | -1.0365313  | 0.1543518   | 0.69858566  | 0.51295761  |
| Fzr1     | -0.1190525  | 2.8350282    | 0.1543518   | 0.69858566  | 0.51295761  |

... (rest of the table)
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|-------|--------|--------|--------|--------|--------|--------|
| Prokr2| -0.1832174 | 1.92358666 | 0.1512707 | 0.70145233 | 0.5137599 |
| Klf7  | 0.05703958 | 6.5193186 | 0.15122888 | 0.70149147 | 0.5137599 |
| Brf1  | -0.0644165 | 4.23692636 | 0.15118542 | 0.70153215 | 0.5137599 |
| E030025P04 | -0.5064814 | -1.4199404 | 0.15115159 | 0.70156382 | 0.5137599 |
| Trpc3 | -0.0870098 | 3.63334456 | 0.15100998 | 0.70169645 | 0.51378892 |
| Pola1 | 0.11192625 | 2.66497059 | 0.15099727 | 0.70170836 | 0.51378892 |
| Dnaaf3| -0.3680582 | -1.1739159 | 0.15066451 | 0.7020203 | 0.51395375 |
| Map9  | -0.0643411 | 7.90118263 | 0.15062904 | 0.70205358 | 0.51395375 |
| Aldh3b2| -0.2274824 | -0.2498659 | 0.15058927 | 0.70209089 | 0.51395375 |
| Mex3a | -0.1075328 | 2.55651255 | 0.15048614 | 0.70218768 | 0.51398619 |
| Cleca1| -0.1745862 | 1.93760054 | 0.15041452 | 0.70225491 | 0.513997 |
| Srpk2 | -0.0456624 | 7.79659098 | 0.15015332 | 0.7025003 | 0.51413818 |
| Rims1 | -0.0661438 | 6.48495215 | 0.15003834 | 0.70260838 | 0.51415771 |
| S16a8 | 0.48034638 | -1.1791877 | 0.15001327 | 0.70263196 | 0.51415771 |
| Spp2  | 0.3386752 | 0.45542696 | 0.1498534 | 0.70278234 | 0.51419745 |
| Ccnc  | -0.058433 | 5.84716191 | 0.14984393 | 0.70279126 | 0.51419745 |
| Slamf1| 0.44916106 | -1.076657 | 0.14970067 | 0.7029261 | 0.5142577 |
| 2610318N02| 0.47351026 | -2.0397248 | 0.14943401 | 0.70317773 | 0.51437032 |
| Dpep2 | -0.5909852 | -1.7038124 | 0.14937492 | 0.7032333 | 0.51437032 |
| Stx17 | -0.0573756 | 5.51081247 | 0.14937006 | 0.70323758 | 0.51437032 |
| Al413582 | 0.80847714 | 3.26757408 | 0.14915023 | 0.70344941 | 0.51448356 |
| Elavl1 | -0.0446996 | 6.63422728 | 0.14900128 | 0.7035855 | 0.51454796 |
| Zfryve27 | 0.06782362 | 4.26992673 | 0.14892336 | 0.70365906 | 0.51456334 |
| Brca1 | -0.1848437 | 1.08808677 | 0.14865654 | 0.70391117 | 0.51470224 |
| Slc39a1 | -0.0986025 | 5.19620193 | 0.14858689 | 0.70397702 | 0.51470244 |
| Grcc10 | -0.1402251 | 3.80079278 | 0.14855557 | 0.70400664 | 0.51470224 |
| Tcf20 | -0.0584672 | 8.10599558 | 0.1482661 | 0.70428056 | 0.51486407 |
| Prima1 | 0.1305683 | 1.40377764 | 0.14788672 | 0.70464001 | 0.51508841 |
| Ccdc157 | 0.08374682 | 3.04729122 | 0.14781564 | 0.70470742 | 0.51508997 |
| Ctsl | -0.095695 | 6.74069323 | 0.14777357 | 0.70474732 | 0.51508997 |
| 4632428N05 | -0.1522923 | 2.15941038 | 0.14763592 | 0.70487794 | 0.51510254 |
| Eno4 | 0.15196902 | 1.34689556 | 0.14762771 | 0.70488572 | 0.51510254 |
| Btbd16 | 0.33603943 | -0.8711988 | 0.14758921 | 0.70492227 | 0.51510254 |
| Tfec | 0.59227397 | -1.7338427 | 0.14728519 | 0.70521104 | 0.51525795 |
| Inmt | -0.140633 | 3.49614324 | 0.14716242 | 0.70532776 | 0.51525795 |
| Pppr25e | -0.053305 | 6.40327889 | 0.14712423 | 0.70536407 | 0.51525795 |
| Zscan12 | -0.0680277 | 4.26561548 | 0.14709588 | 0.70539103 | 0.51525795 |
| 2410131K14I | 0.11144396 | 1.90497599 | 0.14705763 | 0.70542742 | 0.51525795 |
| Msh3 | 0.07842085 | 4.12936455 | 0.14694384 | 0.70553568 | 0.51525795 |
| Gm10190 | -0.3152666 | -0.2077484 | 0.14693725 | 0.70554195 | 0.51525795 |
| Rtbdbn | 0.29206287 | 0.38635475 | 0.14689578 | 0.70558142 | 0.51525795 |
| Dym | -0.0492414 | 5.63051636 | 0.14686747 | 0.70560837 | 0.51525795 |
| BCO37032 | 0.21345881 | 0.53871092 | 0.14662308 | 0.70584114 | 0.51533195 |
| Gene       | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Arid4b     | 0.05937039 | 7.72302548 | 0.14661857 | 0.70584544 | 0.51533195 |
| Tmem198    | 0.14585138 | 2.00437496 | 0.146556 | 0.70590507 | 0.51533195 |
| Rbfox2     | -0.0463879 | 7.5197972 | 0.14654018 | 0.70592015 | 0.51533195 |
| Kdm2b      | -0.0569922 | 4.37736772 | 0.1463539 | 0.70609777 | 0.5154232 |
| Pak7       | 0.07247559 | 6.03121147 | 0.14617719 | 0.70626639 | 0.51546771 |
| Ndufs5     | 0.35184262 | -1.4944173 | 0.14610852 | 0.70633196 | 0.51546771 |
| Gins3      | -0.1881773 | 1.21726451 | 0.14605009 | 0.70638775 | 0.51546771 |
| Rbm10      | 0.05997761 | 4.92040676 | 0.14602695 | 0.70640985 | 0.51546771 |
| Plekhk2    | -0.0593508 | 5.65818336 | 0.14596834 | 0.70646584 | 0.51546771 |
| Cep128     | -0.0918212 | 4.25132638 | 0.14594241 | 0.70649061 | 0.51546771 |
| Mxra8      | -0.0980768 | 5.68300485 | 0.14590421 | 0.70652712 | 0.51546771 |
| D6Ertd474e | 0.32471377 | 0.2199904 | 0.14581181 | 0.70661542 | 0.51549374 |
| Sh3glb1    | -0.04584 | 8.20721644 | 0.14575543 | 0.70666933 | 0.51549468 |
| Pum1       | 0.04253181 | 6.90389033 | 0.14541592 | 0.70699417 | 0.51569324 |
| Cccr5      | 0.20082679 | 0.6165469 | 0.14516651 | 0.70723309 | 0.51582909 |
| ARL13b     | 0.06831055 | 4.2966268 | 0.14498391 | 0.70740815 | 0.51586731 |
| Eif1ad     | 0.07827137 | 4.17200908 | 0.14497556 | 0.70741616 | 0.51586731 |
| Dtx3l      | -0.055936 | 4.87767254 | 0.14494707 | 0.70744348 | 0.51586731 |
| Zfp108     | 0.09371942 | 3.07925753 | 0.14485726 | 0.70752965 | 0.51589174 |
| Abcb1a     | 0.09292787 | 5.71532328 | 0.14468706 | 0.70769302 | 0.51597245 |
| Plekhj1    | 0.13585174 | 2.19298864 | 0.14428532 | 0.70807909 | 0.51621551 |
| Arhgaps8   | -0.3425034 | -0.3610325 | 0.14406523 | 0.70829085 | 0.51629946 |
| Nrg2e1     | -0.1063621 | 3.69179722 | 0.1440374 | 0.70831764 | 0.51629946 |
| SLC22a21   | 0.30776387 | 0.03731727 | 0.14393799 | 0.70841336 | 0.51629946 |
| Zfp433     | 0.07069859 | 3.82422455 | 0.14389779 | 0.70845208 | 0.51629946 |
| Heyl       | -0.0731725 | 6.00162945 | 0.14378687 | 0.70855895 | 0.51629946 |
| Phf11c     | 0.3609947 | -1.5857981 | 0.14375605 | 0.70858865 | 0.51629946 |
| Vegfc      | 0.11934146 | 2.74930106 | 0.14372547 | 0.70861812 | 0.51629946 |
| Prokr1     | 0.41576717 | -0.1820214 | 0.14369399 | 0.70864847 | 0.51629946 |
| Asb13      | -0.0626017 | 4.60256161 | 0.1436153 | 0.70872434 | 0.51629946 |
| Tbx2       | -0.3927345 | -1.42374005 | 0.14357948 | 0.70875889 | 0.51629946 |
| Fam26e     | -0.1079974 | 4.62726743 | 0.14356376 | 0.70877404 | 0.51629946 |
| Fap        | 0.16435444 | 1.52176877 | 0.14322948 | 0.70906668 | 0.51636277 |
| Fxc        | 0.05876892 | 7.8893427 | 0.14320125 | 0.70912395 | 0.51636277 |
| Ssx2ip     | -0.043723 | 6.28551564 | 0.14312707 | 0.70919561 | 0.51636277 |
| Efcab11    | 0.33630954 | -0.5475158 | 0.14312664 | 0.70919203 | 0.51636277 |
| Slc50a1    | -0.0974892 | 3.05410095 | 0.14311809 | 0.70920429 | 0.51636277 |
| Gpr182     | -0.1348246 | 4.10662129 | 0.14293279 | 0.7093834 | 0.51636277 |
| Prmt8      | -0.0528862 | 7.02981199 | 0.14291546 | 0.70940016 | 0.51636277 |
| Cd40       | -0.3659225 | -1.0778425 | 0.14290828 | 0.70940711 | 0.51636277 |
| AB30010M2c | 0.07154877 | 8.6443168 | 0.14290089 | 0.70941425 | 0.51636277 |
| Lzts2      | -0.1067066 | 2.82548724 | 0.14286911 | 0.70944499 | 0.51636277 |
| CO30006K11I| -0.10678 | 2.96509353 | 0.14283336 | 0.70947957 | 0.51636277 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Pacs1  | 0.04806477 | 6.74546738 | 0.14281893 | 0.70949353 | 0.51636277 |
| Naa10  | 0.12234006 | 2.32544461 | 0.14270316 | 0.70960555 | 0.51640593 |
| Ube2f  | 0.0660575 | 4.74670963 | 0.14259902 | 0.70970636 | 0.51644092 |
| Ppp3ca | -0.0548099 | 9.63284311 | 0.1424641 | 0.70983704 | 0.51649021 |
| Vwa1   | 0.0798787 | 4.20174091 | 0.14234566 | 0.70995181 | 0.51649021 |
| Por    | -0.0636175 | 5.52808753 | 0.14226961 | 0.71002554 | 0.51649021 |
| Rnpepl1| 0.07582742 | 4.18973917 | 0.14220611 | 0.71008711 | 0.51649021 |
| Suggp1 | 0.06685721 | 4.58008137 | 0.14217461 | 0.71011766 | 0.51649021 |
| Gnl3I  | 0.04599648 | 8.04128811 | 0.14214037 | 0.71015087 | 0.51649021 |
| Fads1  | 0.05551775 | 6.22578949 | 0.14208369 | 0.71020587 | 0.51649021 |
| Slc25a40| -0.0929786 | 3.38294368 | 0.14202689 | 0.71026098 | 0.51649021 |
| Baz2a  | 0.05819681 | 6.12712443 | 0.14197827 | 0.71030817 | 0.51649021 |
| Ror2   | 0.21465906 | 0.84523662 | 0.1419519 | 0.71033377 | 0.51649021 |
| Angel2 | 0.05305365 | 5.77778424 | 0.14187356 | 0.71040983 | 0.51649021 |
| Slc37a4| 0.11012317 | 1.97965061 | 0.14185453 | 0.71042832 | 0.51649021 |
| Setd7  | -0.0493537 | 8.66298225 | 0.14182236 | 0.71045956 | 0.51649021 |
| Tatdn2 | -0.0836745 | 4.03065392 | 0.14156706 | 0.71070767 | 0.51662921 |
| Ntxph4 | 0.22215173 | 0.63504163 | 0.1415171 | 0.71075625 | 0.51662921 |
| Fosb   | -0.141607 | 3.38460971 | 0.14125065 | 0.71101552 | 0.51677932 |
| Cnga2  | -0.6348805 | -2.1500629 | 0.14185574 | 0.71112743 | 0.51682131 |
| Bcl2   | 0.06682825 | 6.6580827 | 0.14108298 | 0.71117881 | 0.51681231 |
| Srd5a1 | -0.1349948 | 2.56381811 | 0.14089173 | 0.7113652 | 0.5169184 |
| Mgat2  | -0.0932919 | 3.28423238 | 0.14057134 | 0.71167778 | 0.51701871 |
| Npc11l | 0.2862701 | 0.04696487 | 0.14056677 | 0.71168224 | 0.51701871 |
| Rtp4   | -0.1308633 | 3.93435672 | 0.14048395 | 0.71176311 | 0.51701871 |
| Dtx3   | 0.06613096 | 5.05564026 | 0.14048107 | 0.71176592 | 0.51701871 |
| AU019823| -0.0672363 | 5.02484557 | 0.14043979 | 0.71180624 | 0.51701871 |
| Lrrn2  | 0.08188897 | 4.65525531 | 0.14037985 | 0.71186479 | 0.51701871 |
| 4933433G19| 0.1803186 | 0.90088046 | 0.14026442 | 0.7119776 | 0.51701871 |
| Tll1   | -0.0910842 | 3.55557792 | 0.14022044 | 0.71202059 | 0.51701871 |
| Crmp1  | 0.06054021 | 6.06433348 | 0.14018925 | 0.71205109 | 0.51701871 |
| Ypel4  | -0.1358198 | 2.45977121 | 0.14018406 | 0.71205617 | 0.51701871 |
| Tfb1m  | 0.10805391 | 2.80023338 | 0.14010934 | 0.71212924 | 0.51701871 |
| Kiz    | 0.07295756 | 4.925296 | 0.1401018 | 0.71213662 | 0.51701871 |
| Zadh2  | 0.06547572 | 4.80412858 | 0.14003393 | 0.71220301 | 0.51702859 |
| Mtf2   | -0.0630328 | 5.55865667 | 0.13961974 | 0.7126086 | 0.5172259 |
| Trim7  | -0.2141811 | 0.29043078 | 0.13960316 | 0.71262485 | 0.5172259 |
| 1600020E01 | -0.2031222 | 1.1376363 | 0.13959463 | 0.71263321 | 0.5172259 |
| Akap2  | 0.04624241 | 7.52593438 | 0.13950205 | 0.71272397 | 0.51725344 |
| Glp1r  | 0.22904297 | 0.0642864 | 0.13937193 | 0.71285159 | 0.5173031 |
| Ilr1ap2| 0.11225542 | 3.23313246 | 0.13931757 | 0.71290493 | 0.5173031 |
| Tmem59 | 0.06443929 | 6.13848722 | 0.13927081 | 0.71295082 | 0.5173031 |
| Ubd1   | -0.2197552 | -0.1061916 | 0.13913634 | 0.71308283 | 0.51732683 |
| Gene          | c7        | c8        | c9        | c10       | c11       | c12       | c13       | c14       | c15       | c16       | c17       | c18       | c19       | c20       | c21       | c22       | c23       | c24       | c25       |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ctnnd2       | 0.06415492| 9.36130243| 0.13912991| 0.71308915| 0.51732683|
| Slc13a4      | -0.0933694| 8.44182862| 0.13894996| 0.71326593| 0.51741675|
| Fam122a      | -0.0681288| 4.73155212| 0.13887893| 0.71333575| 0.51742908|
| Slc16a5      | 0.28212416| -0.6751443| 0.13878763| 0.71342552| 0.51743594|
| 2610044O15   | 0.0681832| 4.55994414| 0.13876187| 0.71345085| 0.51743594|
| Inpp5d       | 0.10499944| 2.51991615| 0.1383374| 0.7138687| 0.51768799|
| Npm3         | -0.2559313| -0.8634113| 0.13830149| 0.71390408| 0.51768799|
| Mtfr1        | -0.1036549| 3.94927546| 0.13821751| 0.71398685| 0.51769552|
| Kif3b        | 0.05634682| 6.59547066| 0.13812255| 0.71408047| 0.51769552|
| Ssc5d        | 0.11619395| 2.55307744| 0.13809758| 0.7141051| 0.51769552|
| Pnma3        | -0.0986765| 2.98502679| 0.13807651| 0.71412588| 0.51769552|
| 2810403A07   | 0.06217571| 6.56468175| 0.13786973| 0.71432992| 0.51780512|
| R3hdm1       | -0.0666418| 9.58790115| 0.137792| 0.71440666| 0.5178142|
| Tekt2        | -0.3930062| -0.5607391| 0.13774997| 0.71444817| 0.5178142|
| Cdk13        | 0.04141298| 7.17706312| 0.13757287| 0.71462315| 0.5179027|
| Sap130       | 0.04854349| 6.64404836| 0.13751631| 0.71467906| 0.5179049|
| Eaf1         | -0.057322| 5.06304878| 0.13745759| 0.71473711| 0.51790635|
| Gal3t3       | 0.06354389| 6.01131671| 0.13740734| 0.71478681| 0.51790635|
| Bhmt2        | 0.58050727| -0.5181588| 0.13715002| 0.71504146| 0.51803869|
| Hspa1a       | 0.07589371| 3.80987944| 0.13711591| 0.71507523| 0.51803869|
| Kcnab3       | -0.0581047| 5.49972719| 0.13697596| 0.71521386| 0.51805814|
| Pcyt1b       | -0.0660973| 5.32802086| 0.13696527| 0.71522446| 0.51805814|
| Acap3        | 0.06141435| 4.76959602| 0.13687529| 0.71531363| 0.51805814|
| Enho         | 0.16451379| 0.55148826| 0.1367127| 0.71547486| 0.5181366|
| Pak4         | -0.1265366| 4.81414536| 0.13658866| 0.71559793| 0.51818741|
| 2810006K23i  | 0.06921532| 4.299404715| 0.1363728| 0.71581226| 0.5183043|
| Clcc1        | 0.06687855| 4.36557929| 0.13628084| 0.71590362| 0.51833214|
| Hspa5        | -0.0479413| 7.24254107| 0.13585513| 0.71632704| 0.51854053|
| Shisa2       | -0.124117| 2.48056302| 0.13583457| 0.71634751| 0.51854053|
| Pchdhc4      | 0.21157905| 0.9926195| 0.13575492| 0.71642682| 0.51854053|
| Ube2m        | -0.0835683| 3.10543801| 0.13573597| 0.7164457| 0.51854053|
| Stard6       | 0.11232797| 2.41474258| 0.13562071| 0.71656052| 0.51854053|
| Emil1        | -0.0442748| 5.94191498| 0.13560595| 0.71657523| 0.51854053|
| Sox2ot       | 0.0663529| 4.98179201| 0.1355926| 0.71658853| 0.51854053|
| Lcn2         | 0.83352445| -1.2419215| 0.13556609| 0.71661495| 0.51854053|
| Hist1h2bh    | -0.3329463| -0.7848318| 0.13550596| 0.71667489| 0.5185456|
| Isyn1        | -0.0799508| 6.19626698| 0.13536362| 0.71681685| 0.51861|
| Rab11fip4os  | 0.32238776| -0.7582432| 0.13521569| 0.71696446| 0.51865693|
| Usp32        | 0.05400087| 7.80025164| 0.1351925| 0.71698761| 0.51865693|
| Tbc1d32      | 0.08364901| 4.73628723| 0.13509049| 0.71708946| 0.51869231|
| Tmem191c     | 0.0849306| 4.21084663| 0.13480547| 0.71737429| 0.51886002|
| Kctd7        | -0.1213401| 2.79768907| 0.13455624| 0.71762363| 0.51900204|
| Gene   | Tmc8  | Gtf2e1  | Boc  | Otud7b  | Lepre1  | AA465934 | Zfp110  | Cyp2r1  | Slit1  | Col23a1  | Gsto2  | Cbs  | Rhot1  | Phkg2  | Tmed7  | Ccar1  | Zc3h12a  | Eph4  | Mars2  | Ear2  | Fcgrt  | Hhat  | Slc3a2  | Zfand4  | Smnd3b  | Ogdhl  | Abl1  | Numbl  | Arf3  | Fkbp14  | Usp30  | Parm1  | 05-Mar  | Rgcc  | Cst3  | Tlk1  | Gpr62  | Flrt3  | Sclc25a44  | Mbd6  | Igf1  | Cpne6  | Frat1  |
|--------|-------|---------|------|---------|---------|----------|---------|---------|--------|---------|--------|------|--------|--------|--------|--------|------------|------|--------|------|-------|-------|--------|--------|--------|------------|------|--------|------|-------|-------|-----------|-------|-------|--------|-------|
|        | 0.43811927 | -0.8056689 | 0.13437336 | 0.71780677 | 0.51909196 | 0.08491842 | 3.80428153 | 0.13432626 | 0.71785395 | 0.51909196 | 0.0715738 | 3.53156235 | 0.13421894 | 0.7179615 | 0.5191314 | 0.04331628 | 7.25464734 | 0.13378934 | 0.71839254 | 0.51940473 | -0.1437571 | 2.42918779 | 0.1335855 | 0.71859733 | 0.5194629 | 0.19147647 | 0.237487 | 0.13355773 | 0.71862525 | 0.5194629 | -0.0718135 | 4.42279014 | 0.13348499 | 0.71869837 | 0.51951081 | 0.18541767 | 0.36074522 | 0.13320693 | 0.71897815 | 0.51962706 | 0.10448721 | 2.95992929 | 0.1332032 | 0.7189819 | 0.51962706 | -0.0946771 | 5.23591138 | 0.13316702 | 0.71901833 | 0.51962706 | -0.3420513 | -0.5104815 | 0.133067 | 0.71911906 | 0.51966151 | 0.07678908 | 3.17066703 | 0.13288491 | 0.71930256 | 0.51975577 | 0.05018382 | 6.11619502 | 0.13273709 | 0.71945162 | 0.51982514 | 0.11749664 | 2.60356202 | 0.13261223 | 0.71957762 | 0.51987783 | -0.0566025 | 5.69417952 | 0.13220555 | 0.71998845 | 0.52013627 | -0.0478773 | 8.06170419 | 0.13187785 | 0.72032001 | 0.52023994 | -0.288002 | -0.5978045 | 0.13187681 | 0.72032106 | 0.52023994 | 0.05151445 | 7.2171443 | 0.13185437 | 0.72034378 | 0.52023994 | -0.1534437 | 2.29555454 | 0.13185377 | 0.72034439 | 0.52023994 | -0.3298841 | -0.4067613 | 0.1317826 | 0.72041647 | 0.52025364 | -0.1229421 | 3.55292364 | 0.13170504 | 0.72049504 | 0.52027202 | -0.3552019 | -0.7515552 | 0.13161167 | 0.72058967 | 0.520302 | 0.0505793 | 6.32439206 | 0.13143931 | 0.72076445 | 0.52035865 | 0.16202458 | 1.73462481 | 0.13142953 | 0.72077438 | 0.52035865 | 0.3330164 | -0.2309417 | 0.13122031 | 0.72098672 | 0.52047359 | 0.13738307 | 1.86515548 | 0.13114095 | 0.72106731 | 0.52048435 | -0.0682862 | 5.32165928 | 0.13103797 | 0.72117193 | 0.52048435 | -0.0623313 | 4.00453307 | 0.13103688 | 0.72117304 | 0.52048435 | 0.05766371 | 10.0859814 | 0.13097786 | 0.72123302 | 0.52048435 | -0.0921106 | 4.22152797 | 0.1308755 | 0.72133709 | 0.52048435 | 0.06818706 | 4.18557355 | 0.13083247 | 0.72138086 | 0.52048435 | 0.06502405 | 4.32365914 | 0.13081975 | 0.72139379 | 0.52048435 | -0.04005 | 6.50440038 | 0.13077814 | 0.72143612 | 0.52048435 | 0.0976834 | 2.86685262 | 0.13063782 | 0.72157891 | 0.52048435 | -0.0888403 | 7.90737531 | 0.13057095 | 0.7216474 | 0.52048435 | -0.0368482 | 7.60864649 | 0.13056244 | 0.72165566 | 0.52048435 | 0.19720916 | 0.89676421 | 0.13054144 | 0.72167705 | 0.52048435 | 0.05196949 | 5.81551562 | 0.13052637 | 0.72169239 | 0.52048435 | 0.04481921 | 5.90625202 | 0.13011987 | 0.72210676 | 0.52066262 | 0.1094675 | 3.97290676 | 0.13011368 | 0.72211308 | 0.52066262 | -0.0681363 | 5.25462119 | 0.130082 | 0.7221454 | 0.52066262 | -0.0866653 | 5.07405814 | 0.13007195 | 0.72215566 | 0.52066262 | 0.14147344 | 1.57041128 | 0.13002326 | 0.72220534 | 0.52066262 |
| Gene   | Per1  | Hey2   | Tprkb | Zfp85 | Adam1b  | 2610008E11 | A530072M1 | Ctif     | Arl15   | 1700003D09 | Rabgef1  | Rarg    | Rassf8 | Dnase1L3 | Clasp1  | Insc    | Vtn     | Ebf2   | Gm11186  | Rfc5     | Tbr1    | Cccdc150 | Bag6   | C130083M11 | BC028528 | Ptpn4   | Atp1a1 | Ifrd2   | Trappc12 | Mpst   | Lztf1   | Card6  | Lmo1   | Thap6   | Ddx10   | Gm166  | Deaf1  | Adamts15 | Pid1   | D330050G23 | Vps51   | Mipep   | Aifm1   |
|--------|-------|--------|-------|-------|---------|-------------|------------|----------|---------|-----------|-----------|---------|--------|---------|---------|---------|---------|---------|---------|---------|----------|---------|--------|--------|---------|---------|---------|--------|--------|---------|--------|---------|--------|---------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|--------|--------|---------|--------|---------|
Tbx21  -0.4361289  -0.7649604  0.11954592  0.73315413  0.52517345
Ido1    0.1578111  1.31686761  0.1194806  0.73322405  0.52517345
Mb21d1  0.16605521  0.81745462  0.11943732  0.73327039  0.52517345
Vac14   0.06607613  4.71468339  0.11942125  0.73328759  0.52517345
Il21r   0.36846307  -0.8992308  0.11930797  0.73340895  0.5251827
Cpne4   0.05698854  6.36856692  0.11928813  0.7334302  0.5251827
Pcdhgb1 0.09979714  4.09657467  0.11925907  0.73346135  0.5251827
Ccdc175 -0.5116999  -1.7965656  0.11916949  0.73355738  0.52521307
Fam101a  0.15294803  2.83924127  0.11904787  0.73368782  0.52524209
Zswim7  0.09974794  2.12660425  0.1190317  0.73370516  0.52524209
4933434E20I  0.05190545  4.51298392  0.11893631  0.73380753  0.52527698
Acer3   0.09310227  3.65386616  0.11871426  0.734046  0.52536703
Mphosph6 -0.0849923  4.50521503  0.1186996  0.73406176  0.52536703
Wdpcp  -0.0610039  3.98123373  0.11866939  0.73409422  0.52536703
Sfrp1   0.08659583  6.64119233  0.11849124  0.73428577  0.52542788
Smg7    0.03642084  8.02274237  0.11849053  0.73428654  0.52542788
Zfp658  0.09990775  2.26400875  0.1183687  0.73441762  0.52545126
Gypc   -0.0979002  5.39498822  0.11836046  0.73442649  0.52545126
Abr   0.05663613  7.69705062  0.11820859  0.73459001  0.52550794
H2-Aa  -0.1502724  4.46773061  0.11810208  0.73470476  0.52550794
Hif3a  -0.1019261  2.85379318  0.11805249  0.73475821  0.52550794
2810428I15R -0.1191813  2.82113477  0.11804153  0.73477002  0.52550794
Fbxo30  -0.0712735  5.38115965  0.11801916  0.73479414  0.52550794
Metap1d -0.125761  2.28054549  0.11795815  0.73485991  0.52550794
1700019L03f -0.2485506  -0.6529311  0.11793837  0.73488125  0.52550794
Mtf1   0.04233803  5.99906572  0.11757942  0.7352687  0.5257117
Aldh18a1  0.07779774  3.57618485  0.11757495  0.73527353  0.5257117
Bhlhe41  0.05694862  7.69616051  0.11747512  0.73538141  0.52575045
Rbl2   -0.0392871  7.24597562  0.11739573  0.73546724  0.5257651
Prrt3   0.14668542  1.74678824  0.11734752  0.73551937  0.5257651
Calb1  -0.0506228  6.05115069  0.11730311  0.73556741  0.5257651
Npnl2  -0.0954641  2.467394  0.11717224  0.73570902  0.5257651
Klh29   0.08866595  5.07510909  0.11716747  0.73571419  0.5257651
Dmwd  -0.0608849  4.86534183  0.11715845  0.73572395  0.5257651
Crat   0.04884317  5.36198451  0.11697213  0.73592574  0.52587094
Artn   -0.4985908  -2.0795552  0.11688274  0.7360226  0.52590179
Rel1   0.08514399  5.182429  0.11667539  0.73624747  0.52599334
Aifm2  -0.121212  2.59545827  0.11666558  0.73625812  0.52599334
Esm1   0.12876216  2.24517017  0.11656871  0.73636325  0.52603008
Mbnl1  -0.0517345  9.06154523  0.11642168  0.73652293  0.52610577
Klh6   0.22932384  0.02189517  0.11621788  0.73674443  0.52619949
Apln   -0.1193959  2.58939571  0.11620212  0.73676157  0.52619949
3632451O06 -0.0811716  4.23193063  0.11603597  0.73694233  0.52629022
| Gene    | Value         |
|---------|---------------|
| Cdc25c  | -0.3594162    |
| Gpr174  | -0.4240714    |
| Ndufa10 | -0.0491439    |
| Hdlbp   | -0.0346037    |
| Zfp931  | -0.0825211    |
| Slc25a33| -0.0880471    |
| Cd81    | 0.0853227     |
| Mospd3  | -0.0979168    |
| Gfy     | 0.63835678    |
| Lcp1    | -0.071964     |
| Ptdss1  | -0.0518248    |
| BC061194| -0.2031019    |
| Mid1    | -0.0784952    |
| Rhobtb3 | -0.0649246    |
| Gm5617  | -0.1830508    |
| Ocel1   | -0.1347187    |
| Osbpl9  | -0.0502547    |
| Ulk2    | -0.0399892    |
| Zkscan5 | 0.10588168    |
| A930015D03| 0.15020856   |
| 2310061I04R| -0.0647303   |
| Kctd8   | -0.1324105    |
| Fbxl18  | -0.1310436    |
| Spaca5  | 0.40017487    |
| Gpr132  | 0.3467289     |
| Vps37b  | 0.07801355    |
| Ccnd2   | -0.045558     |
| Zak     | 0.04512809    |
| Tem3    | -0.0861055    |
| Ppp1cc  | -0.0384333    |
| Kcn3    | 0.11284184    |
| Proser1 | -0.0561087    |
| Akap10  | -0.0523302    |
| Fbxo34  | -0.0574383    |
| Oacyl   | 0.25351369    |
| Mansc4  | -0.1523271    |
| Stim2   | 0.05974081    |
| Cry2    | -0.0486798    |
| Cacnb1  | 0.05002998    |
| Ablim3  | -0.0396565    |
| Acpp    | -0.1409854    |
| Gm5860  | 0.09716595    |
| Opn3    | -0.0843118    |
| Gene    | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  | Value 10 | Value 11 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Stard3  | -0.1004304 | 2.37085646 | 0.11161436 | 0.74180705 | 0.52807036 |
| Rnmtl1  | -0.1206156 | 2.06520423 | 0.11141995 | 0.7420234 | 0.52818599 |
| Tomm40  | 0.07661904 | 3.08970157 | 0.11134509 | 0.74210676 | 0.52820694 |
| Sec24c  | 0.04628722 | 6.32172526 | 0.11127565 | 0.74218411 | 0.52822362 |
| Letmd1  | 0.05610685 | 4.8416147 | 0.11110752 | 0.74237152 | 0.52829524 |
| Mrpl40  | -0.0818918 | 3.57713701 | 0.11108861 | 0.7423926 | 0.52829524 |
| 4930404N11 | -0.1934808 | 0.04994917 | 0.11089956 | 0.74260354 | 0.52838674 |
| Thg1l   | -0.1074122 | 2.94982883 | 0.11087669 | 0.74262907 | 0.52838674 |
| Hhatl   | -0.1921745 | 0.58083269 | 0.11074998 | 0.74277058 | 0.52844904 |
| P2rx1   | 0.5416044 | -2.3316039 | 0.11061818 | 0.74291786 | 0.52851543 |
| Ampd3   | 0.05111334 | 5.59985315 | 0.11047939 | 0.74307306 | 0.5285682 |
| Gm13315 | -0.4581688 | -1.3209303 | 0.11044079 | 0.74311625 | 0.5285682 |
| Spata7  | 0.05905392 | 4.05031783 | 0.11040713 | 0.74315391 | 0.5285682 |
| Cox7a1  | -0.1192421 | 2.11222014 | 0.11035854 | 0.74320829 | 0.5285685 |
| Serpina3n | -0.1308606 | 2.68992215 | 0.11029835 | 0.74327567 | 0.52857804 |
| Gng10   | -0.0806079 | 4.81533876 | 0.11023824 | 0.74334298 | 0.52858753 |
| Ethe1   | -0.1126924 | 2.6815575 | 0.11006866 | 0.74353301 | 0.52868427 |
| Ctf1    | -0.1267988 | 2.64594289 | 0.10985781 | 0.74376949 | 0.52872945 |
| Rtcb    | 0.05884024 | 4.1718067 | 0.10983676 | 0.74379311 | 0.52872945 |
| Sstr4   | 0.11707278 | 4.50972522 | 0.1096975 | 0.74394945 | 0.52886521 |
| Surf4   | 0.06459761 | 4.57231606 | 0.10964662 | 0.74400661 | 0.52886746 |
| Col1a1  | -0.0833068 | 6.95686148 | 0.10956947 | 0.74409329 | 0.5288907 |
| Tbx3    | -0.0743065 | 3.70014722 | 0.10936318 | 0.74432524 | 0.52901718 |
| Ptgds   | -0.1244274 | 12.2504338 | 0.1091984 | 0.7445107 | 0.5291106 |
| Polb    | -0.0702493 | 4.32665146 | 0.10909504 | 0.74462711 | 0.52915494 |
| Rabl3   | -0.0598991 | 4.40385949 | 0.10894816 | 0.74479263 | 0.52923417 |
| Stag2   | 0.04129663 | 6.69822651 | 0.10876519 | 0.74499901 | 0.52931593 |
| E230016M11 | -0.2367962 | 0.20227686 | 0.10875034 | 0.74501577 | 0.52931593 |
| Itgax   | -0.2881417 | -0.4385055 | 0.10865513 | 0.74512324 | 0.52935269 |
| Hbp1    | 0.04231132 | 6.72167701 | 0.10859433 | 0.74519189 | 0.52935269 |
| BC018242 | -0.0573568 | 4.75332154 | 0.10856092 | 0.74522963 | 0.52935269 |
| 4932416H05 | 0.08512068 | 2.63823692 | 0.10844439 | 0.74536131 | 0.52940783 |
| Senp5   | -0.0402497 | 5.58786185 | 0.10835551 | 0.74546179 | 0.52943318 |
| Rnasel  | -0.0570956 | 4.67977899 | 0.10831721 | 0.7455051 | 0.52943318 |
| Zdhhc15 | 0.08913014 | 3.45046656 | 0.10824762 | 0.74558383 | 0.52945071 |
| Kank4os | 0.38232035 | -1.37562925 | 0.1081542 | 0.74568955 | 0.52948739 |
| Ttc22   | -0.464019 | -1.6064773 | 0.10797187 | 0.74589605 | 0.52956485 |
| Rnf17   | 0.19383628 | 0.73325128 | 0.10789012 | 0.74598868 | 0.52956485 |
| Srpna   | -0.0719042 | 4.66726131 | 0.10781016 | 0.74607934 | 0.52956485 |
| Ccdc120 | 0.10374032 | 2.46031896 | 0.1078029 | 0.74608757 | 0.52956485 |
| Map3k5  | 0.07751476 | 5.08153796 | 0.10779677 | 0.74609453 | 0.52956485 |
| Lenep   | -0.160787 | 1.41408675 | 0.10777166 | 0.746123 | 0.52956485 |
| Dgcr14  | -0.0678815 | 3.75036642 | 0.10770632 | 0.74619713 | 0.52957908 |
| Gene   | Ccr7  | Ankdd1b | Casp2 | Rad9a | Pqlc2 | Al118078 | Magt1 | Cyp2f2 | Kcnip1 | Slc6a12 | Eph1  | Hsf5   | Zfp949 | Gm6498 | 3110079O15 | Eps15 | Ssh2   | Nid1   | 5830418P13I | Ciart  | Mttr7  | Kctd5  | 2810021J22F | Cyp19a1 | Slc16a7 | Cd151  | Dhdh  | Enkd1  | Kif6  | Zfp296 | Ate1   | Mirlet7bhg | Mkrn2  | Itih5  | Amdhd2 | Tmem87b | Sdsl  | Aven  | Zfp768 | Fpgr  | Atl3   | Nudt1  | A430105I19F |
|--------|-------|---------|-------|-------|-------|----------|--------|--------|--------|---------|-------|--------|--------|--------|-------------|-------|--------|--------|----------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|
|        | -0.4680766 | -1.9770979 | 0.10734819 | 0.74660384 | 0.52979176 | 0.06728146 | 3.20222513 | 0.10730839 | 0.74664908 | 0.52979176 | 0.06023517 | 3.86831317 | 0.10729962 | 0.74665905 | 0.52979176 | -0.0709402 | 3.49725422 | 0.10705594 | 0.74693629 | 0.52993735 | 0.16872257 | 0.36876817 | 0.10702418 | 0.74697245 | 0.52993735 | -0.2353392 | -0.438439 | 0.1069737 | 0.74702994 | 0.52993796 | 0.06588109 | 5.22966798 | 0.10690659 | 0.74710638 | 0.52994002 | -0.155279 | 4.94083326 | 0.10686733 | 0.74715111 | 0.52994002 | -0.0794948 | 4.52694561 | 0.10679181 | 0.7472372 | 0.52994002 | 0.11119767 | 3.69420656 | 0.1067644 | 0.74726844 | 0.52994002 | 0.52323887 | 0.106736 | 0.74730082 | 0.52994002 | 0.37685066 | 0.24239207 | 0.10663696 | 0.74741379 | 0.52998176 | 0.05556162 | 4.59449231 | 0.10653389 | 0.74753142 | 0.53002681 | 0.25663157 | -1.0240939 | 0.10646057 | 0.74761513 | 0.53004779 | 0.33365044 | -1.8125332 | 0.10627739 | 0.74782442 | 0.5301578 | 0.04150391 | 8.62271066 | 0.10588305 | 0.74827562 | 0.53043929 | 0.04545465 | 6.53010038 | 0.1056254 | 0.74857094 | 0.53056167 | -0.0599933 | 7.06377941 | 0.10558396 | 0.74861848 | 0.53056167 | -0.2178404 | 0.17613779 | 0.10556929 | 0.7486353 | 0.53056167 | -0.0893453 | 3.12972536 | 0.10554348 | 0.74866493 | 0.53056167 | 0.0742075 | 5.04746558 | 0.10543687 | 0.74878729 | 0.53059755 | 0.0876773 | 2.84732475 | 0.10540499 | 0.74882389 | 0.53059755 | 0.0624447 | 4.0634388 | 0.10524098 | 0.7490123 | 0.53068464 | 0.50793331 | -1.5822901 | 0.10572322 | 0.74905516 | 0.53068464 | 0.0637064 | 4.68758201 | 0.10510076 | 0.74917351 | 0.53072628 | -0.1092801 | 5.12328317 | 0.10505107 | 0.74923068 | 0.53072628 | -0.0549336 | 6.4983225 | 0.10501127 | 0.74927647 | 0.53072628 | -0.1524674 | 0.5560655 | 0.10493233 | 0.74936733 | 0.53073078 | -0.1883117 | 0.20610313 | 0.10486224 | 0.74944802 | 0.53073078 | 0.23957015 | -0.1268593 | 0.10480617 | 0.7495126 | 0.53073078 | 0.04473323 | 6.22399955 | 0.10480409 | 0.74951499 | 0.53073078 | 0.26958451 | 0.10443539 | 0.74994013 | 0.53082624 | -0.1172578 | 1.22239547 | 0.10444557 | 0.74992838 | 0.53082624 | 0.05911354 | 4.94297907 | 0.10443539 | 0.74994013 | 0.53082624 | -0.3600688 | -0.6387176 | 0.1044186 | 0.74995952 | 0.53082624 | 0.12036361 | 1.31727111 | 0.10434353 | 0.75004619 | 0.53082882 | -0.1063973 | 2.42165946 | 0.10426705 | 0.75013452 | 0.53082882 | -0.0523458 | 4.93554178 | 0.1042338 | 0.75017294 | 0.53082882 | 0.04424812 | 7.4225482 | 0.10422775 | 0.75017992 | 0.53082882 | -0.2381318 | 0.61450683 | 0.104111 | 0.75031602 | 0.53084541 | -0.0886837 | 3.33664494 | 0.10386935 | 0.75059444 | 0.53084541 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Fmod   | -0.091512 | 7.83887884 | 0.10386862 | 0.75059529 | 0.53084541 |
| Smarca4 | 0.05975979 | 7.01594341 | 0.10382416 | 0.75064676 | 0.53084541 |
| Notum  | -0.1037227 | 1.64644829 | 0.10380645 | 0.75066727 | 0.53084541 |
| Poldip2 | 0.05342835 | 5.13046729 | 0.10380127 | 0.75067328 | 0.53084541 |
| Gm10635 | 0.19913572 | 0.85486743 | 0.10379296 | 0.75068331 | 0.53084541 |
| Fzd8   | -0.141582 | 1.75858584 | 0.10378943 | 0.75068698 | 0.53084541 |
| Arrb2  | 0.06862754 | 4.08125527 | 0.10378586 | 0.75069112 | 0.53084541 |
| Sertef | -0.1200937 | 1.78404877 | 0.10365422 | 0.75084364 | 0.53089943 |
| Zbtb7a | 0.0612871 | 6.03367033 | 0.10362638 | 0.75087591 | 0.53089943 |
| Aars   | -0.0526423 | 5.61114746 | 0.1034583 | 0.75107083 | 0.53099328 |
| Prpf31 | 0.05446687 | 4.10967263 | 0.10338585 | 0.7511549 | 0.53099328 |
| Mvb12a | -0.0966172 | 1.88568296 | 0.10337176 | 0.75117126 | 0.53099328 |
| A930009A15 | 0.38778637 | -1.9983995 | 0.10293733 | 0.75167612 | 0.53124747 |
| Tecr   | 0.06202569 | 7.85813035 | 0.10291428 | 0.75170294 | 0.53124747 |
| Gemin2 | -0.0988793 | 2.12116911 | 0.10286498 | 0.75176032 | 0.53124747 |
| Zkscan7 | -0.1369826 | 1.50064791 | 0.10274506 | 0.75189994 | 0.53124747 |
| 1700034J05F | 0.5768406 | -1.6206311 | 0.10263145 | 0.75203229 | 0.53124747 |
| Slc25a34 | -0.17336 | 0.06385238 | 0.10257054 | 0.75210329 | 0.53124747 |
| Sphk2 | 0.06154397 | 4.07618968 | 0.1025349 | 0.75214484 | 0.53124747 |
| Cat   | -0.0529621 | 8.12823621 | 0.10250708 | 0.75217728 | 0.53124747 |
| Prkri1 | -0.0410812 | 5.34315048 | 0.10248086 | 0.75220787 | 0.53124747 |
| Tle2  | -0.1129127 | 1.5759767 | 0.10245931 | 0.752233 | 0.53124747 |
| Cdc20 | 0.25919388 | -0.3598917 | 0.10248564 | 0.75223379 | 0.53124747 |
| Arhgap1 | -0.0524599 | 5.65617668 | 0.1023878 | 0.75231643 | 0.53124747 |
| Tubb2a | 0.0593749 | 7.72927064 | 0.1023612 | 0.75234748 | 0.53124747 |
| Mpp4  | -0.2535475 | -1.0414371 | 0.10235781 | 0.75235143 | 0.53124747 |
| Clec2i | 0.36282684 | -1.1682639 | 0.10230775 | 0.75240986 | 0.53124747 |
| Mtit2 | 0.04717746 | 5.36245845 | 0.10226164 | 0.7524637 | 0.53124747 |
| Ccdd152 | -0.1020943 | 1.90916393 | 0.10223819 | 0.75249109 | 0.53124747 |
| Crybg3 | -0.0664925 | 4.24807861 | 0.10198943 | 0.75278181 | 0.53144142 |
| Atg101 | -0.0981158 | 2.8013093 | 0.1017895 | 0.75301574 | 0.53156825 |
| D830031N03 | -0.0497251 | 5.26126611 | 0.10163452 | 0.75319726 | 0.53165808 |
| Phactr1 | -0.0434927 | 7.94788212 | 0.10126766 | 0.75362753 | 0.53192346 |
| Lrig3  | 0.14423433 | 1.08464464 | 0.10077481 | 0.75420695 | 0.53229407 |
| Pex5   | -0.0612503 | 3.90300021 | 0.10071074 | 0.75428239 | 0.53230896 |
| Tfp7  | -0.0955249 | 2.7330613 | 0.10064536 | 0.75435939 | 0.5323098 |
| Entpd3 | 0.10769031 | 1.63353035 | 0.10056697 | 0.75445176 | 0.5323098 |
| Iti1h2 | -0.0716338 | 5.04283293 | 0.10055537 | 0.75446543 | 0.5323098 |
| Tril   | 0.06330287 | 3.67077525 | 0.10052524 | 0.75450095 | 0.5323098 |
| Dok4   | -0.1226388 | 2.3734439 | 0.10044334 | 0.75459751 | 0.53233958 |
| Qrfpr  | 0.23316403 | 0.13814898 | 0.10018551 | 0.75490181 | 0.53240262 |
| Nhej1  | -0.2221708 | 1.11955873 | 0.10017756 | 0.7549112 | 0.53240262 |
| Wdr62  | 0.1679499 | 1.01093731 | 0.1001457 | 0.75494884 | 0.53240262 |
| Gene          | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|--------------|---------|---------|---------|---------|---------|---------|
| E530001F21l  | -0.3482338 | 0.14723667 | 0.1001333 | 0.75496348 | 0.53240262 |
| Map3k9       | 0.06994762 | 6.22637479 | 0.1009166 | 0.75501268 | 0.53240262 |
| Mlip         | 0.06231882 | 4.86704619 | 0.1000914 | 0.75501299 | 0.53240262 |
| Cst7         | 0.47514307 | -1.9428477 | 0.10001328 | 0.75510532 | 0.5324294 |
| Brinp2       | 0.05336527 | 4.4590988 | 0.09974022 | 0.75542837 | 0.53260291 |
| Cnst         | -0.0485233 | 6.16085831 | 0.09971204 | 0.75546174 | 0.53260291 |
| Sirt5        | -0.0798878 | 2.29635344 | 0.09966747 | 0.75551452 | 0.53260291 |
| Trip13       | 0.23685514 | 0.72257965 | 0.09959173 | 0.75560424 | 0.53262783 |
| Dolk         | 0.09177521 | 2.47522989 | 0.09945502 | 0.75576629 | 0.53270373 |
| Asxl2        | 0.04465991 | 6.49427482 | 0.09934712 | 0.75589428 | 0.5327556 |
| Phf3         | 0.03751733 | 8.18853207 | 0.09921906 | 0.75604628 | 0.53280897 |
| Apoa2        | 0.30903955 | -1.2367279 | 0.09916931 | 0.75610536 | 0.53280897 |
| Sh2d5        | 0.06078369 | 4.63060511 | 0.09913289 | 0.75614863 | 0.53280897 |
| Tsr1         | 0.05375767 | 6.03519977 | 0.09905747 | 0.75623824 | 0.53280897 |
| Hist1h2be    | -0.0920975 | 2.78253402 | 0.09905433 | 0.75624197 | 0.53280897 |
| Wee1         | 0.0469216 | 5.51696953 | 0.09900201 | 0.75630406 | 0.53281439 |
| Apobr        | -0.2257447 | 0.34536625 | 0.09894191 | 0.75637562 | 0.53281812 |
| Gemin4       | 0.08542539 | 2.31786914 | 0.0988616 | 0.75647115 | 0.53281812 |
| Zfp189       | -0.0683989 | 3.26918649 | 0.09878385 | 0.75656367 | 0.53281812 |
| Oraov1       | -0.0742373 | 3.70779662 | 0.09876878 | 0.75658162 | 0.53281812 |
| Bgn          | -0.0810996 | 8.30310633 | 0.0987631 | 0.75658837 | 0.53281812 |
| 4930590J08f  | -0.2952234 | -0.7086782 | 0.09872333 | 0.75663572 | 0.53281812 |
| Kcnh8        | 0.37871502 | -1.0813013 | 0.09866344 | 0.75670704 | 0.53283004 |
| Cd22         | -0.4369248 | -2.1449166 | 0.09838937 | 0.75703373 | 0.53292331 |
| Csgalnact2   | -0.0657129 | 3.38256503 | 0.09838356 | 0.75704066 | 0.53292331 |
| Acbd5        | 0.03167615 | 7.15738997 | 0.09837877 | 0.75704637 | 0.53292331 |
| Gm5512       | 0.09971698 | 1.38961734 | 0.09835777 | 0.75707142 | 0.53292331 |
| Pik3ap1      | 0.10232001 | 3.13275307 | 0.09832416 | 0.75711154 | 0.53292331 |
| Memo1        | -0.0533118 | 4.53854241 | 0.09817867 | 0.75728522 | 0.53300726 |
| Safb2        | -0.0501392 | 5.15612092 | 0.09809192 | 0.75738886 | 0.5330419 |
| Mamld1       | 0.04755426 | 6.24014348 | 0.09801918 | 0.75747579 | 0.53306479 |
| Clptm1       | 0.04535927 | 6.04131309 | 0.0978631 | 0.75766244 | 0.53315784 |
| Immt         | 0.0434585 | 6.62963615 | 0.09779815 | 0.75774016 | 0.53317423 |
| Ginm1        | -0.0780303 | 5.23454548 | 0.09773275 | 0.75781846 | 0.53319102 |
| Pnpo         | -0.0699893 | 3.78994723 | 0.09755554 | 0.75803073 | 0.533206 |
| Serpind1     | -0.0953904 | 4.92559936 | 0.0973851 | 0.75823511 | 0.53340754 |
| Fdps         | 0.0741895 | 3.83319565 | 0.09728549 | 0.75835464 | 0.53343089 |
| Capn3        | 0.12576494 | 0.85097629 | 0.09722624 | 0.75842577 | 0.53343089 |
| Klk6         | -0.3113772 | -1.3802806 | 0.09722132 | 0.75843168 | 0.53343089 |
| Frrs1        | -0.1722599 | 1.18737088 | 0.09691953 | 0.75879437 | 0.53359164 |
| Gm13749      | -0.1940307 | 0.63489644 | 0.09691557 | 0.75879913 | 0.53359164 |
| 4930538K18f  | -0.2050078 | 0.49385641 | 0.09685825 | 0.75886809 | 0.53359164 |
| 4930486L24f  | 0.53374561 | -2.2845267 | 0.09680984 | 0.75892634 | 0.53359164 |
| Gene       | Vav1  | 0.17064376 | 0.25682111 | 0.09680465 | 0.7589326 | 0.53359164 |
|------------|-------|------------|------------|------------|-----------|------------|
| Mn1        | -0.0672546 | 4.58576522 | 0.09671636 | 0.75903889 | 0.5336241 |
| Dusp1      | -0.0845041 | 6.28480359 | 0.09667581 | 0.75908773 | 0.5336241 |
| 9930111J21F| -0.1042008 | 3.80923068 | 0.09646167 | 0.75934581 | 0.53376722 |
| Slc26a2    | 0.0905316 | 6.09247466 | 0.0963743 | 0.75945121 | 0.533803 |
| Zfp639     | -0.0722919 | 4.46191698 | 0.0962891 | 0.75955403 | 0.53383677 |
| Brd9       | 0.0377375 | 5.50512023 | 0.0962377 | 0.75961608 | 0.53383677 |
| Ednra      | -0.0588712 | 5.01863621 | 0.09616229 | 0.75970716 | 0.53383677 |
| 2610507I01R| 0.04591823 | 4.73203653 | 0.09615395 | 0.75971724 | 0.53383677 |
| Glipl1     | -0.3395552 | -0.9652955 | 0.09599315 | 0.75991159 | 0.5338812 |
| A830080D01 | -0.0563251 | 4.31144439 | 0.09598761 | 0.75991829 | 0.5338812 |
| Rab34      | -0.0809741 | 4.25800237 | 0.09594856 | 0.75996552 | 0.5338812 |
| Psmd14     | -0.0369634 | 6.24716733 | 0.09592092 | 0.75999895 | 0.5338812 |
| Ncapg2     | -0.0963819 | 2.56099685 | 0.09587626 | 0.76005299 | 0.5338812 |
| Tnpo1      | 0.03820535 | 6.64202774 | 0.09575081 | 0.76020483 | 0.53388205 |
| Ccdc68     | -0.1700328 | 0.39708641 | 0.09573851 | 0.76021972 | 0.53388205 |
| Ttc30a1    | 0.15194378 | 1.65587813 | 0.09570857 | 0.76025598 | 0.53388205 |
| Psapl1     | -0.5291744 | -1.7375642 | 0.09565703 | 0.76031842 | 0.53388205 |
| Bcl215     | -0.3432843 | -0.0955266 | 0.09565018 | 0.76032672 | 0.53388205 |
| Cxcl16     | -0.1096829 | 3.95304305 | 0.09557644 | 0.76041608 | 0.53390652 |
| 4930483K19I| -0.2335794 | -0.4326204 | 0.09540025 | 0.76062975 | 0.53401827 |
| Oas1g      | -0.2448044 | -0.3560232 | 0.0951848 | 0.76089132 | 0.53404504 |
| Otogll     | -0.307285 | -1.2053507 | 0.09516759 | 0.76091223 | 0.53404504 |
| Aspa       | -0.0502879 | 6.03393762 | 0.0951529 | 0.76093008 | 0.53404504 |
| Zbttb18    | -0.0419915 | 7.35838544 | 0.09507928 | 0.76101955 | 0.53404504 |
| Ccdc116    | 0.18624524 | 0.07424863 | 0.0950704 | 0.76103035 | 0.53404504 |
| Gxylt2     | -0.0785818 | 3.90150015 | 0.09504764 | 0.76105802 | 0.53404504 |
| Cnp        | -0.0500915 | 6.61886777 | 0.09502345 | 0.76108743 | 0.53404504 |
| Jun        | -0.0381781 | 6.02552746 | 0.09500979 | 0.76110404 | 0.53404504 |
| Dscr3      | -0.0588374 | 4.05739242 | 0.09492814 | 0.76120336 | 0.53407647 |
| Fzd7       | -0.0920158 | 5.93664349 | 0.09483136 | 0.76132113 | 0.53407848 |
| Patzl1     | -0.0512451 | 4.85691423 | 0.09473584 | 0.76143745 | 0.53407848 |
| Col6a5     | 0.43881069 | -1.8134956 | 0.09472893 | 0.76144586 | 0.53407848 |
| Lats1      | 0.03751838 | 7.15099515 | 0.09469826 | 0.76148323 | 0.53407848 |
| Tmie       | 0.11200905 | 1.66140643 | 0.09469263 | 0.76149008 | 0.53407848 |
| Anapc10    | 0.05954391 | 4.50336611 | 0.09465711 | 0.76153336 | 0.53407848 |
| Gs3t10     | 0.14696483 | 2.13162719 | 0.09452418 | 0.76169541 | 0.53413457 |
| BC064078   | -0.1893724 | 0.67834504 | 0.09442337 | 0.76181839 | 0.53413457 |
| Gns2       | 0.11870501 | 2.15849279 | 0.0944181 | 0.76182481 | 0.53413457 |
| Mtmr11     | 0.06600015 | 3.419479 | 0.0943868 | 0.76186302 | 0.53413457 |
| Purl1      | -0.0512379 | 4.31616693 | 0.09436797 | 0.761886 | 0.53413457 |
| Kdm1a      | -0.0490193 | 5.91142414 | 0.09418608 | 0.76210813 | 0.53425207 |
| 4930550C14I| -0.1642019 | 1.73402426 | 0.09413377 | 0.76217206 | 0.53425865 |
| Gene   | Value   | Value   | Value   | Value   | Value   |
|--------|---------|---------|---------|---------|---------|
| Foxc1  | -0.0578668 | 8.36033334 | 0.0940086 | 0.76232511 | 0.53432769 |
| Amigo2 | -0.1037325 | 2.41715299 | 0.09382596 | 0.76254862 | 0.53444611 |
| Tspan5 | -0.0377574 | 7.34070433 | 0.0936441 | 0.76277143 | 0.53456402 |
| A730020M0 | -0.0782471 | 3.94037188 | 0.09348085 | 0.76297163 | 0.53466608 |
| Gpsm3  | -0.1470104 | 2.31143864 | 0.09337175 | 0.76310553 | 0.53472165 |
| Fgfr1  | -0.0675511 | 6.04436897 | 0.09322003 | 0.7632919 | 0.53476631 |
| Dock11 | 0.0492045 | 5.48991872 | 0.09315229 | 0.76337515 | 0.53476631 |
| Gtf3c6 | -0.0685412 | 5.50182977 | 0.0931472 | 0.7633814 | 0.53476631 |
| Brcc3  | -0.0485914 | 5.43400162 | 0.09309774 | 0.76344222 | 0.53476631 |
| Trim36 | 0.07626313 | 3.36901537 | 0.09305701 | 0.76349231 | 0.53476631 |
| Erp29  | -0.0713294 | 4.632178  | 0.0929478 | 0.76362669 | 0.53476631 |
| Gm13308| -0.3059933 | -1.3918595 | 0.09290327 | 0.76368151 | 0.53476631 |
| Mcm3   | -0.1149101 | 0.97874568 | 0.09285102 | 0.76374583 | 0.53476631 |
| Rbm15b | 0.05624699 | 3.8137189 | 0.09284008 | 0.76375932 | 0.53476631 |
| Dcaf10 | 0.05071573 | 5.20849913 | 0.09281122 | 0.76379486 | 0.53476631 |
| 1700025G04| -0.0411712 | 6.95265813 | 0.09279405 | 0.76381601 | 0.53476631 |
| Cep83  | 0.04398925 | 5.98075362 | 0.09273986 | 0.76388278 | 0.53476631 |
| Mycn   | 0.09666158 | 2.05725625 | 0.09267645 | 0.76396093 | 0.53476631 |
| Dynlt1f| 0.1245275 | 0.61524014 | 0.09266462 | 0.76397551 | 0.53476631 |
| 0610031J06f| -0.0866566 | 4.49173626 | 0.09265436 | 0.76398817 | 0.53476631 |
| Lpp    | -0.0445918 | 7.6917757 | 0.09259285 | 0.76406403 | 0.53478119 |
| Iqgap1 | -0.0373407 | 6.34663726 | 0.09243141 | 0.76426323 | 0.5348824 |
| Lmna   | -0.0700047 | 3.66476007 | 0.09228391 | 0.76444542 | 0.53497168 |
| Lysmd1 | -0.0735624 | 3.29837465 | 0.0922246 | 0.76451872 | 0.53498476 |
| Atxn2  | 0.04737321 | 8.07817741 | 0.0921439 | 0.7646185 | 0.53501636 |
| Trmt11 | 0.10535412 | 1.67032125 | 0.09205317 | 0.76473072 | 0.5350226 |
| Cccdc137| -0.0759117 | 4.23153916 | 0.09204837 | 0.76473666 | 0.5350226 |
| Nt5c2  | -0.0406659 | 5.54623857 | 0.09196838 | 0.76483567 | 0.53502545 |
| Cnih4  | -0.0439885 | 5.19353871 | 0.09195682 | 0.76484998 | 0.53502545 |
| Papd4  | 0.05787826 | 5.05321007 | 0.09168591 | 0.76518566 | 0.53520646 |
| Sobp   | -0.0349951 | 7.44545726 | 0.0916006 | 0.76529148 | 0.53520646 |
| Nos2   | -0.5671201 | -1.9593026 | 0.09159379 | 0.76529992 | 0.53520646 |
| Cald1  | -0.0574923 | 10.2790295 | 0.09154355 | 0.76536227 | 0.53520646 |
| Tsku   | -0.1308723 | 2.14957255 | 0.09147278 | 0.76545012 | 0.53520646 |
| Snhg4  | 0.07260115 | 3.32764924 | 0.09137001 | 0.76557776 | 0.53520646 |
| Il20rb | -0.3627242 | -0.6847299 | 0.09133965 | 0.76561549 | 0.53520646 |
| Fam169a| -0.0679453 | 5.76125406 | 0.09132925 | 0.7656281 | 0.53520646 |
| Zfp574 | 0.06222526 | 4.88659637 | 0.09132558 | 0.76563297 | 0.53520646 |
| Ndfip2 | 0.04395429 | 6.27191141 | 0.09128823 | 0.76567974 | 0.53520646 |
| Nr2f6  | 0.08572689 | 2.59815813 | 0.09124061 | 0.76573859 | 0.53520646 |
| Cccdc37| -0.1664437 | 0.91688166 | 0.0912187 | 0.76576584 | 0.53520646 |
| Tgfbr3 | -0.0717071 | 6.77981759 | 0.09117593 | 0.76581904 | 0.53520646 |
| Dennd3 | -0.1189244 | 1.70226287 | 0.09104118 | 0.76598671 | 0.53528545 |
| Gene     | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|----------|---------|---------|---------|---------|---------|---------|
| Serinc4  | 0.3627818 | -1.0261286 | 0.09090904 | 0.76615128 | 0.53533595 |
| Rph3a1   | -0.1456482 | 1.23331176 | 0.09089539 | 0.76616828 | 0.53533595 |
| Gna13    | 0.04956999 | 6.40500411 | 0.09070576 | 0.7664047 | 0.53543637 |
| Mdfic    | -0.0981591 | 5.61031651 | 0.09069242 | 0.76642134 | 0.53543637 |
| A930024E05 | -0.1837807 | 0.66919933 | 0.09063171 | 0.76649708 | 0.5354511 |
| Rps19-ps3 | -0.1393156 | 0.61789326 | 0.09053423 | 0.76661876 | 0.53549791 |
| Ccdc3    | 0.04525202 | 5.39940026 | 0.09046781 | 0.76670172 | 0.53550823 |
| Fytt1    | 0.03937827 | 7.36104306 | 0.09043488 | 0.76674286 | 0.53550823 |
| Cd8h     | -0.0489975 | 5.4722849 | 0.09037359 | 0.76681946 | 0.53552354 |
| Tmsb15l  | -0.1516407 | 1.11771483 | 0.0902454 | 0.76697974 | 0.53559729 |
| Cbx5     | 0.03531063 | 9.15622761 | 0.09016274 | 0.76708316 | 0.5356033 |
| Pkm1y1   | -0.2030344 | -0.4137615 | 0.09011028 | 0.76714883 | 0.5356033 |
| Ccl7     | -0.133597 | 1.45136625 | 0.09010744 | 0.76715239 | 0.5356033 |
| Lrrc8d   | 0.04730596 | 5.77363906 | 0.08996462 | 0.76733126 | 0.53569 |
| Ppp6r2   | 0.05799676 | 4.59010303 | 0.08991247 | 0.76739661 | 0.53569744 |
| 4933406C10 | -0.2780978 | -1.0047284 | 0.08973591 | 0.76761803 | 0.53581383 |
| S1c38a3  | 0.07903865 | 4.10921612 | 0.08948705 | 0.76793052 | 0.53599376 |
| Ndr3     | -0.0300662 | 8.73840103 | 0.08914973 | 0.76835486 | 0.53625172 |
| Zan      | 0.50257384 | -2.1385419 | 0.08910146 | 0.76841565 | 0.53625594 |
| Zfp595   | -0.0549731 | 3.35783293 | 0.08895966 | 0.76859434 | 0.53634243 |
| Cdc45    | -0.1596965 | 0.92619424 | 0.08853626 | 0.76912883 | 0.53667718 |
| Cmc2     | -0.0597577 | 3.25622659 | 0.0884597 | 0.76922563 | 0.53670649 |
| Mtr      | 0.10864949 | 2.80101481 | 0.08822428 | 0.76952356 | 0.53686625 |
| Cisd2    | 0.04093087 | 6.17756167 | 0.08819218 | 0.76956422 | 0.53686625 |
| Srebf2   | -0.0583224 | 5.20482012 | 0.08811598 | 0.76966077 | 0.53689537 |
| Ctnnb1   | 0.05197803 | 3.99076024 | 0.08796113 | 0.7698571 | 0.53693541 |
| A430035B10 | 0.07716203 | 2.99546973 | 0.08794127 | 0.7698823 | 0.53693541 |
| Sec11a   | -0.0772885 | 4.0758586 | 0.08792099 | 0.76990803 | 0.53693541 |
| Ctnnb1   | 0.03220597 | 9.22493966 | 0.08789509 | 0.76994089 | 0.53693541 |
| Extl3    | -0.0395414 | 6.75161783 | 0.08783955 | 0.77001139 | 0.53693541 |
| Hmg5n    | 0.04777179 | 7.16198763 | 0.08781144 | 0.77004707 | 0.53693541 |
| Ccdc34   | 0.04938065 | 6.08041037 | 0.08763387 | 0.77027266 | 0.53702057 |
| Gabrr2   | 0.34290306 | -0.870399 | 0.087629 | 0.77027885 | 0.53702057 |
| Cyrh1    | 0.0464364 | 5.5707049 | 0.08747702 | 0.77047213 | 0.53711709 |
| Fbxl5    | 0.03864087 | 5.6184531 | 0.08736681 | 0.7706124 | 0.53716307 |
| Pias1    | -0.0323338 | 6.84402528 | 0.08733904 | 0.77064776 | 0.53716307 |
| Bms1     | -0.0410661 | 6.0653261 | 0.0872366 | 0.77077825 | 0.5372158 |
| Stxbp1   | -0.0415617 | 10.0420214 | 0.08709719 | 0.77095598 | 0.53730144 |
| Nanog    | -0.1950725 | -0.5025616 | 0.0867551 | 0.77139273 | 0.5375251 |
| Acker4   | 0.4045428 | -1.4397916 | 0.0867212 | 0.77143608 | 0.5375251 |
| Khl13    | -0.0367078 | 6.10968308 | 0.08671693 | 0.77144153 | 0.5375251 |
| Vtcn1    | 0.20102329 | -0.1211964 | 0.08664426 | 0.77153446 | 0.53755162 |
| llvbl    | 0.09345205 | 2.36640121 | 0.08643118 | 0.77180717 | 0.5376714 |
| Gene       | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   |
|------------|----------|----------|----------|----------|----------|----------|----------|
| Rasal1     | -0.0993685 | 3.28396186 | 0.08639704 | 0.77185089 | 0.5376714 |
| Smc1a      | 0.04759802 | 8.10839609 | 0.0863291 | 0.77193794 | 0.5376714 |
| Has1       | 0.18435763 | 0.34808261 | 0.08632557 | 0.77194247 | 0.5376714 |
| 1700003M07 | -0.0547116 | 3.86364677 | 0.08629563 | 0.77198084 | 0.5376714 |
| Capn5      | 0.04132065 | 5.56500213 | 0.0859376 | 0.77244029 | 0.53795315 |
| Piezo2     | -0.0889766 | 2.92854699 | 0.08566757 | 0.77278751 | 0.53813115 |
| Palm2      | 0.05884692 | 7.15217427 | 0.08564199 | 0.77282043 | 0.53813115 |
| Gm2a       | -0.0831524 | 5.00654987 | 0.08559167 | 0.77288521 | 0.53813115 |
| Tubgcp5    | 0.07314767 | 4.13761734 | 0.08552847 | 0.7729666 | 0.53813115 |
| Kbtbd11    | 0.03584449 | 7.70405204 | 0.08552359 | 0.77297056 | 0.53813115 |
| Clca2      | 0.30616085 | -1.5911448 | 0.08544804 | 0.77307023 | 0.53816229 |
| Ier5l      | 0.28615457 | -1.2465365 | 0.0852596 | 0.77331322 | 0.53829318 |
| Gm13807    | -0.3881566 | -2.139352 | 0.08514715 | 0.77345837 | 0.53833748 |
| Ciao1      | -0.0423217 | 5.39363612 | 0.08512515 | 0.77348677 | 0.53833748 |
| 4930577N17 | -0.1452007 | 0.10867021 | 0.0849769 | 0.77367832 | 0.5384325 |
| Camk1d     | -0.0346472 | 8.32294529 | 0.08480183 | 0.77390474 | 0.53855185 |
| C2         | 0.1121434 | 2.81686402 | 0.08475214 | 0.77396905 | 0.53855834 |
| Myrip      | -0.0532745 | 6.38887838 | 0.08465545 | 0.77409425 | 0.5386072 |
| Tef        | 0.03095386 | 6.79325453 | 0.08440247 | 0.77442221 | 0.53870639 |
| Ccde85b    | -0.0532707 | 4.38375005 | 0.08438671 | 0.77444265 | 0.53870639 |
| Cog5       | -0.0631302 | 4.63452983 | 0.08436841 | 0.7744664 | 0.53870639 |
| Aldh1a3    | 0.21763265 | -0.040302 | 0.08436613 | 0.77446936 | 0.53870639 |
| Csf1       | -0.0646612 | 4.87426401 | 0.08429471 | 0.77456206 | 0.53870639 |
| Apold1     | 0.1246657 | 1.93923786 | 0.08427093 | 0.77459294 | 0.53870639 |
| Mbd2       | -0.0464572 | 7.38678796 | 0.08424872 | 0.77462178 | 0.53870639 |
| Tmem63a    | 0.06419291 | 4.55997756 | 0.08410624 | 0.7748069 | 0.53874634 |
| S1c19a3    | -0.2010332 | 0.32608447 | 0.0840402 | 0.77489277 | 0.53874634 |
| Zfp72      | -0.0853859 | 3.12617452 | 0.08402645 | 0.77491064 | 0.53874634 |
| Foxo6      | -0.0791784 | 2.60702137 | 0.08401733 | 0.77492251 | 0.53874634 |
| Cox15      | -0.0464776 | 5.47204878 | 0.08397271 | 0.77498054 | 0.53874634 |
| Csrnp1     | -0.1241014 | 1.76997254 | 0.08395067 | 0.77500922 | 0.53874634 |
| Mtif3      | -0.0644919 | 3.36360623 | 0.08386571 | 0.77511981 | 0.5387517 |
| Dynce12    | 0.04001216 | 7.48767004 | 0.08386023 | 0.77512694 | 0.5387517 |
| Ogg1       | -0.1227003 | 0.72943137 | 0.08381076 | 0.77519136 | 0.53875825 |
| Lrrc38     | 0.12076187 | 1.44435448 | 0.0836427 | 0.77541035 | 0.53877507 |
| Olig2      | -0.0619329 | 3.43458375 | 0.08363566 | 0.77541954 | 0.53877507 |
| Commd4     | -0.0870958 | 3.50891298 | 0.08361569 | 0.77544557 | 0.53877507 |
| Cmas       | 0.03022376 | 6.76787663 | 0.08360909 | 0.77545417 | 0.53877507 |
| Vrk2       | 0.18825285 | 0.45857261 | 0.0835746 | 0.77549916 | 0.53877507 |
| Stap1      | -0.1707963 | 0.31756925 | 0.08352652 | 0.77556189 | 0.53877507 |
| Supt16     | 0.05743172 | 6.65731618 | 0.08349686 | 0.77560059 | 0.53877507 |
| Lmtk3      | 0.14879423 | 1.61875562 | 0.08330611 | 0.77584968 | 0.53890988 |
| Ptpre      | 0.05599403 | 5.24251314 | 0.08312928 | 0.77608087 | 0.53903224 |
| Gene   | Score  | Score  | Score  | Score  | Score  | Score  | Score  |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Mfap1a | 0.18244273 | 1.20263267 | 0.08307123 | 0.77615682 | 0.53904678 |
| Hcn4   | 0.10953556 | 1.30114906 | 0.08302446 | 0.77621804 | 0.53905107 |
| Sertad3| 0.1808183 | 0.88470497 | 0.08292689 | 0.7763458 | 0.53910158 |
| Mllt1  | 0.05321522 | 4.59534888 | 0.08273055 | 0.77660316 | 0.53924206 |
| Ncapg  | -0.2613272 | -0.3341187 | 0.0826667 | 0.77668692 | 0.539262 |
| Klrbf1 | -0.205563 | -0.1107929 | 0.08261412 | 0.77675592 | 0.53926304 |
| Fam13a | 0.04752823 | 3.99578644 | 0.08258167 | 0.77679853 | 0.53926304 |
| Hexim1 | -0.0405951 | 5.41505595 | 0.08247647 | 0.77693668 | 0.53927756 |
| Gimap1 | 0.08505559 | 3.12082073 | 0.08245666 | 0.77696272 | 0.53927756 |
| Luzp1  | 0.03605337 | 8.22082905 | 0.08237715 | 0.77706721 | 0.53927756 |
| Cntm6  | 0.08980502 | 4.86642247 | 0.08232965 | 0.77712967 | 0.53927756 |
| Wars   | -0.0460602 | 5.11435786 | 0.08229313 | 0.7771777 | 0.53927756 |
| Ggt5   | 0.15810094 | 1.43336164 | 0.08228472 | 0.77718876 | 0.53927756 |
| Tmem255b | -0.3318219 | -0.9751836 | 0.0822725 | 0.77720483 | 0.53927756 |
| Rcn3   | -0.1297088 | 3.12705558 | 0.08217576 | 0.77733214 | 0.53932679 |
| Gm12992| -0.1097042 | 1.37021767 | 0.08188688 | 0.77771279 | 0.53955358 |
| Vbp1   | 0.04476119 | 5.18967613 | 0.08179502 | 0.77783398 | 0.53959101 |
| Ddx52  | -0.0377332 | 4.67861184 | 0.08174835 | 0.77789558 | 0.53959101 |
| Id1    | 0.05114964 | 5.81647658 | 0.08172076 | 0.77793201 | 0.53959101 |
| Slco4a1 | 0.13072066 | 1.80494302 | 0.08166998 | 0.77799907 | 0.5395932 |
| Fam188b| 0.10960881 | 1.34550415 | 0.08149672 | 0.77822804 | 0.53971991 |
| Gm5065 | -0.2842564 | -1.8556745 | 0.0813949 | 0.77836272 | 0.5397751 |
| Galnt11| 0.06450733 | 3.29136292 | 0.08129673 | 0.77849267 | 0.5397061 |
| Traf3p3| -0.3094586 | -0.8302029 | 0.08129474 | 0.77849531 | 0.5397061 |
| Cd209a | -0.1190101 | 3.352711 | 0.08117919 | 0.77864837 | 0.53985853 |
| Wasl   | -0.0336775 | 8.11217707 | 0.08106581 | 0.77879866 | 0.5398724 |
| Pmea1  | -0.039325 | 7.36000559 | 0.08105434 | 0.77881388 | 0.5398724 |
| 4833412C05I | -0.1746115 | 0.25183559 | 0.08100241 | 0.77888276 | 0.5398724 |
| Btuc   | 0.04167846 | 6.32207989 | 0.08099784 | 0.77888883 | 0.5398724 |
| Mybpc2 | 0.13630007 | 1.39858629 | 0.08094951 | 0.77895295 | 0.53987555 |
| Fgf23  | -0.3173205 | -1.0142725 | 0.08091135 | 0.77900362 | 0.53987555 |
| Tada1  | 0.04659655 | 5.26378133 | 0.08061694 | 0.77939483 | 0.54010846 |
| Rras   | -0.0899946 | 4.72190055 | 0.08051927 | 0.77952478 | 0.5401603 |
| Enthd2 | 0.11856702 | 1.43722193 | 0.08047186 | 0.7795879 | 0.54016582 |
| Slc36a1| -0.0470315 | 4.99323155 | 0.08038456 | 0.77970417 | 0.54020818 |
| Yars   | 0.04595179 | 5.01004981 | 0.08022085 | 0.77992239 | 0.54032115 |
| Tor1ai1p1 | 0.04426131 | 7.34527973 | 0.08009036 | 0.7800965 | 0.54033531 |
| Mthfr  | 0.08578104 | 2.89904496 | 0.08008521 | 0.78010337 | 0.54033531 |
| Tmem237| -0.0787457 | 3.40213193 | 0.0800815 | 0.78010832 | 0.54033531 |
| Synrg  | 0.03414393 | 6.70088302 | 0.07997589 | 0.78024936 | 0.54039479 |
| Fbxl4  | 0.0546052 | 3.57468846 | 0.07983386 | 0.7804392 | 0.5404434 |
| Cers5  | 0.03958031 | 4.92314804 | 0.07980221 | 0.78048152 | 0.5404434 |
| Mfap1a | -0.0291331 | 7.41490946 | 0.07976547 | 0.78053067 | 0.5404434 |
| Gene   | Score 1 | Score 2 | Score 3 | Score 4 | Score 5 | Score 6 | Score 7 | Score 8 | Score 9 | Score 10 | Score 11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Slc26a7| -0.100091 | 4.94168083 | 0.07975832 | 0.78054024 | 0.5404434 |
| Pon2   | -0.0772659 | 5.932534 | 0.0796746 | 0.78065226 | 0.54045232 |
| Agpat1 | 0.05238429 | 4.8021746 | 0.07965857 | 0.78067373 | 0.54045232 |
| Lonr3  | 0.04440725 | 5.72486877 | 0.07962503 | 0.78071864 | 0.54045232 |
| Gpr160 | -0.1870084 | 0.01767484 | 0.07957086 | 0.78079119 | 0.54046434 |
| Gm21284| 0.16244022 | 0.13904433 | 0.0794869 | 0.78090369 | 0.54050402 |
| B4galnt3| 0.08695167 | 1.94859098 | 0.07937429 | 0.78105469 | 0.54057034 |
| Copb2  | 0.02915596 | 7.23618966 | 0.07929003 | 0.78116774 | 0.54061039 |
| Gm4951 | -0.1100595 | 3.36598933 | 0.07922726 | 0.78125202 | 0.54063051 |
| I830077J02Rik | 0.1375635 | 0.98222716 | 0.07893875 | 0.78157925 | 0.5408043 |
| 10-Sep | -0.0778341 | 2.8240973 | 0.07890861 | 0.78168034 | 0.5408043 |
| Hnfp   | 0.08977054 | 1.97206335 | 0.07888654 | 0.78171005 | 0.5408043 |
| Zfp185 | 0.09129964 | 3.37363519 | 0.07887617 | 0.78172399 | 0.5408043 |
| Ide    | 0.03061549 | 7.24622988 | 0.07874668 | 0.78189836 | 0.54086746 |
| Ints7  | 0.06716407 | 3.58778534 | 0.07872637 | 0.78192572 | 0.54086746 |
| Dars   | 0.03953048 | 5.23673454 | 0.07866103 | 0.78201379 | 0.54089018 |
| Alkbh4 | 0.11174576 | 1.04714267 | 0.07852859 | 0.78219239 | 0.54092317 |
| Rpn2   | -0.0560149 | 5.31139917 | 0.07849009 | 0.78224434 | 0.54092317 |
| Tlr7   | -0.1110887 | 5.9115268 | 0.0784476 | 0.78230168 | 0.54092317 |
| Krt10  | -0.0866007 | 2.23718246 | 0.07844131 | 0.78231018 | 0.54092317 |
| Pgf    | -0.1828481 | 1.21134176 | 0.078421 | 0.7823376 | 0.54092317 |
| Ttc30b | 0.05597405 | 3.5675271 | 0.07833873 | 0.78244871 | 0.54096181 |
| Casr   | -0.1196691 | 1.89347907 | 0.07826437 | 0.78254919 | 0.5409931 |
| Ip04   | 0.05032075 | 4.14921411 | 0.07815758 | 0.7826936 | 0.54103087 |
| Trps1  | 0.04599648 | 6.29006397 | 0.07814149 | 0.78271536 | 0.54103087 |
| Tap1   | 0.11593846 | 1.05045136 | 0.07810144 | 0.78276954 | 0.54103087 |
| Arhgef15| 0.08910728 | 2.8955382 | 0.0780023 | 0.78290374 | 0.54103118 |
| Zkscan17| -0.0646075 | 3.86490782 | 0.0779612 | 0.78295941 | 0.54103118 |
| Chst14 | -0.1133208 | 1.60237469 | 0.07789404 | 0.7830504 | 0.54103118 |
| Stam   | -0.0359098 | 6.06935406 | 0.07786496 | 0.7830898 | 0.54103118 |
| Polr2i | -0.0824788 | 3.0562357 | 0.07785977 | 0.78309684 | 0.54103118 |
| Tspan6 | -0.0782454 | 3.9849307 | 0.07785641 | 0.78310139 | 0.54103118 |
| Aste1  | 0.08591001 | 2.36355824 | 0.07775506 | 0.78323881 | 0.54108288 |
| Ssrp1  | 0.048174 | 6.70649479 | 0.0776918 | 0.78332464 | 0.54108288 |
| Kdcl1  | 0.07059097 | 2.8426093 | 0.0776753 | 0.78334703 | 0.54108288 |
| Msh5   | 0.48789876 | -1.8124745 | 0.07759839 | 0.78345145 | 0.54108288 |
| Tmem255a| 0.05531821 | 4.74803875 | 0.07759768 | 0.78345241 | 0.54108288 |
| Gm15421| 0.08482002 | 1.85128343 | 0.07749616 | 0.78359031 | 0.54113118 |
| Psat1  | -0.0377948 | 6.48892202 | 0.07745655 | 0.78364415 | 0.54113118 |
| Parp8  | 0.05470712 | 4.80146209 | 0.07742423 | 0.78368808 | 0.54113118 |
| Cnip   | 0.04110676 | 9.08758755 | 0.07727535 | 0.78389059 | 0.54120174 |
| Zdhhc18| 0.07282 | 3.24459797 | 0.07726788 | 0.78390076 | 0.54120174 |
| Prr14  | -0.0504709 | 5.45232595 | 0.07714153 | 0.78407281 | 0.54128237 |
| Gene      | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   |
|-----------|-----------|-----------|-----------|-----------|-----------|
| Thra      | 0.04983121| 5.82827563| 0.07709711| 0.78413333| 0.541286  |
| Nck1      | -0.0519827| 4.98985231| 0.0770459| 0.78425945| 0.54133491|
| Aloxe3    | -0.0975641| 1.83074161| 0.07695515| 0.78432687| 0.5413433|
| Ints9     | 0.04357735| 4.3612064| 0.07684116| 0.78448242| 0.54142151|
| Rilp      | -0.2224024| -0.4836868| 0.07672592| 0.78463979| 0.54148297|
| Dexi      | -0.0502482| 3.84167745| 0.07666945| 0.78471697| 0.54148908|
| C030034I22R| 0.10138581| 1.65412909| 0.07663854| 0.78475921| 0.54148908|
| 03-Mar    | -0.213355 | 0.04069443| 0.07655898| 0.78486801| 0.54152601|
| S1c17a5   | 0.05145874| 3.89423497| 0.07637822| 0.78511542| 0.54165856|
| Gne       | -0.0386582| 5.51174018| 0.07624182| 0.78530232| 0.54173082|
| Pdcl3     | -0.0626879| 4.225778  | 0.07622108| 0.78533077| 0.54173082|
| Snord99   | 0.4100207| -1.8805611| 0.07617238| 0.78539754| 0.54173873|
| Pex26     | -0.0593091| 3.8248316| 0.0760486| 0.78556739| 0.54179393|
| Rapgef3   | 0.06570129| 2.66865458| 0.07603345| 0.7855882| 0.54179393|
| Pex11g    | 0.28890259| -1.2928139| 0.07591811| 0.78574661| 0.54186504|
| Ergic3    | 0.06116323| 5.24047087| 0.07575026| 0.78597738| 0.54198602|
| Eltd1     | 0.10421024| 2.92488026| 0.07568116| 0.78607247| 0.54199948|
| Nans      | -0.0979085| 2.40515802| 0.07565566| 0.78610757| 0.54199948|
| Tbc1d1    | -0.0428509| 4.55994654| 0.07560055| 0.78618345| 0.54201365|
| Smek1     | 0.04005097| 5.62499511| 0.0755266| 0.78628532| 0.54204573|
| Anxa6     | 0.04942403| 5.87471101| 0.07537143| 0.78649925| 0.54215505|
| Egr2      | 0.13607953| 3.93185383| 0.07531891| 0.78657171| 0.54216685|
| 6430550D23| 0.21990305| -0.2776649| 0.07519336| 0.78674503| 0.54224816|
| Pafah1b3  | -0.1181696| 2.03369673| 0.07505312| 0.78693883| 0.54231041|
| Hes1      | -0.0600694| 3.68862672| 0.07494278| 0.78709144| 0.54231041|
| Add3      | -0.0354604| 8.27352249| 0.07491628| 0.78712811| 0.54231041|
| Emc9      | -0.0767524| 2.43498504| 0.07491483| 0.78713013| 0.54231041|
| Arcn1     | -0.027007| 7.30276195| 0.07490823| 0.78713925| 0.54231041|
| Tmc3      | -0.1458654| 0.99473456| 0.0748878| 0.78716754| 0.54231041|
| Rnf125    | -0.1175969| 1.24006064| 0.07474463| 0.78736581| 0.54240886|
| Rhob      | -0.0362349| 7.36944358| 0.07470022| 0.78742737| 0.54241312|
| S1c22a14  | 0.52659005| -1.9966081| 0.07462814| 0.7875273| 0.54243077|
| Pi4k2a    | 0.04809185| 4.91082753| 0.07460186| 0.78756375| 0.54243077|
| Dnaic1    | 0.12260631| 5.6456003| 0.07453979| 0.78764987| 0.5424504|
| Cntrob    | 0.09902624| 2.14754063| 0.07448072| 0.78773185| 0.5424504|
| Cdc73     | -0.0377464| 6.15338114| 0.07446162| 0.78775838| 0.5424504|
| Asxl1     | 0.04761354| 5.35960439| 0.07425804| 0.78804126| 0.54255344|
| 2300009A05| -0.0834049| 2.43271049| 0.07423495| 0.78807336| 0.54255344|
| Otd1      | -0.0475555| 6.12233648| 0.07423436| 0.78807419| 0.54255344|
| Kif18b    | 0.32685975| -1.7836768| 0.07414177| 0.788203| 0.54260398|
| Zfp39     | 0.04059983| 5.36008907| 0.07368096| 0.78884539| 0.54297849|
| Mir425    | 0.31350105| -1.6929726| 0.07367202| 0.78885788| 0.54297849|
| Pros1     | -0.0657591| 5.1652713| 0.07360785| 0.78894751| 0.54300203|
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Pla2g3  | -0.2224362 | -0.0423008 | 0.07321825 | 0.78949262 | 0.54333902 |
| C1qtTnf3 | 0.47951502 | -2.2217414 | 0.07310299 | 0.78965417 | 0.5433722 |
| Pld2    | -0.0960249 | 2.40034598 | 0.07307026 | 0.78970008 | 0.5433722 |
| Pkn2    | -0.0368691 | 6.06826145 | 0.07306515 | 0.78970725 | 0.5433722 |
| Nap1l2  | -0.0562619 | 5.39456633 | 0.07301044 | 0.78978407 | 0.54338431 |
| Zfp362  | -0.0429921 | 5.19322583 | 0.07297355 | 0.78983578 | 0.54338431 |
| Slc25a38 | 0.06282196 | 2.90799022 | 0.07291768 | 0.78991423 | 0.54340011 |
| Rnf31   | -0.0703725 | 3.23321975 | 0.07285849 | 0.78999736 | 0.54341913 |
| Sez61l  | 0.04787187 | 5.43861925 | 0.07265618 | 0.79028188 | 0.54354819 |
| Cdc25b  | 0.071847 | 2.97562223 | 0.07264611 | 0.79029596 | 0.54354819 |
| 4930467D21 | 0.31609773 | -1.3164276 | 0.07260333 | 0.79035617 | 0.54355144 |
| Trim45  | 0.07972094 | 2.49172665 | 0.07254846 | 0.79043341 | 0.54356639 |
| Acer2   | -0.0882697 | 3.38377005 | 0.07242651 | 0.7906052 | 0.54364636 |
| Grid2   | 0.09036332 | 2.47251112 | 0.07238245 | 0.79066731 | 0.54365091 |
| Abcd1   | 0.0795143 | 3.7141478 | 0.07222804 | 0.79088513 | 0.54375216 |
| Klrk1   | -0.1714715 | 0.53259997 | 0.07219937 | 0.7909256 | 0.54375216 |
| D430042O09 | 0.06501482 | 3.42769263 | 0.07206435 | 0.79111631 | 0.54383333 |
| Mov10   | -0.0760637 | 2.92325618 | 0.07203719 | 0.79115469 | 0.54383333 |
| Gnaz    | -0.0408045 | 5.82216852 | 0.0719573 | 0.79126765 | 0.54387281 |
| Mark2   | -0.0408578 | 6.32552604 | 0.07187364 | 0.791386 | 0.54391598 |
| Muc5b   | -0.2884753 | -1.4645111 | 0.07203991 | 0.79163643 | 0.54404993 |
| Ankrd1  | -0.2687707 | -1.3890658 | 0.07159231 | 0.79178455 | 0.54408298 |
| Pttg1ip | 0.07020788 | 6.25434244 | 0.07158452 | 0.79179561 | 0.54408298 |
| Tmco1   | 0.07122614 | 4.77673781 | 0.0714268 | 0.79201943 | 0.54418856 |
| Btbd9   | 0.04866118 | 4.98296484 | 0.07139797 | 0.79206036 | 0.54418856 |
| Pde7b   | -0.029191 | 6.60018981 | 0.07109981 | 0.79248431 | 0.54441646 |
| LOC1016697 | 0.28607891 | -0.978259 | 0.07098556 | 0.792647 | 0.54451523 |
| Stab2   | -0.296052 | -1.1978547 | 0.07089449 | 0.79277679 | 0.54456619 |
| Prim1   | 0.08280902 | 2.94450573 | 0.07073813 | 0.79299983 | 0.54462594 |
| Atxn7l2 | 0.12544898 | 2.34763128 | 0.07069592 | 0.79306009 | 0.54462594 |
| Srr     | -0.040221 | 6.94514693 | 0.07064987 | 0.79312586 | 0.54462594 |
| H2afy2  | -0.0572581 | 4.52595508 | 0.07064298 | 0.79313569 | 0.54462594 |
| Usp43   | -0.2034152 | 1.0019832 | 0.07060909 | 0.79318411 | 0.54462594 |
| Tesk1   | 0.05293083 | 4.95553184 | 0.0705716 | 0.79323768 | 0.54462594 |
| Chtt8   | -0.0492078 | 5.11956091 | 0.07055688 | 0.79325873 | 0.54462594 |
| Cbl4n   | 0.04856015 | 4.04057016 | 0.070522 | 0.79330858 | 0.54462594 |
| Fzd10   | 0.12053835 | 1.03771457 | 0.07037086 | 0.79352478 | 0.54473619 |
| Tph2    | 0.36551514 | -1.2085196 | 0.07016357 | 0.79382172 | 0.54490185 |
| Wnt6    | 0.10541399 | 3.15703096 | 0.06994554 | 0.79413455 | 0.54507838 |
| G630025P09 | 0.37866996 | -1.6225258 | 0.0699022 | 0.79419688 | 0.54508291 |
| Ttc28   | -0.0413285 | 5.76228808 | 0.06983556 | 0.79429255 | 0.54509087 |
| Fbxl14  | 0.04366436 | 5.24253951 | 0.06981669 | 0.79431968 | 0.54509087 |
| Krcc1   | -0.0686507 | 7.09047023 | 0.06965861 | 0.79454705 | 0.5452087 |
| Gene   | Value        | Value | Value | Value | Value | Value | Value | Value | Value | Value | Value |
|--------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Letm1  | -0.0749787  | 2.89797601 | 0.06951345 | 0.79475607 | 0.54529712 |
| Capb1  | 0.07299229  | 2.88542464 | 0.6949181 | 0.79478725 | 0.54529712 |
| Sowahc | -0.0455018  | 4.15343982 | 0.0692534 | 0.79513112 | 0.54540757 |
| Apbb2  | -0.0316611  | 7.4120643 | 0.06922823 | 0.79516746 | 0.54540757 |
| Piho   | -0.26411    | -0.2393641 | 0.06916608 | 0.79525722 | 0.54540757 |
| Arl8a  | 0.0683818   | 6.34525013 | 0.06913623 | 0.79530035 | 0.54540757 |
| Synpo2 | -0.0709753  | 3.37274146 | 0.06912368 | 0.79531849 | 0.54540757 |
| Ndufv1 | -0.0507468  | 4.74009569 | 0.06908479 | 0.79537471 | 0.54540704 |
| Actr10 | 0.03053277  | 7.66079374 | 0.06903838 | 0.7954418 | 0.54547876 |
| Hya13  | 0.14898322  | 0.5348794 | 0.06891657 | 0.79561803 | 0.54551925 |
| U2af1l4 | -0.0874193  | 2.09191891 | 0.06890407 | 0.79563623 | 0.54551925 |
| Kif17  | -0.071063   | 3.1648129 | 0.06888211 | 0.79566793 | 0.54551925 |
| Tbccd1 | 0.04548694  | 4.58301558 | 0.0688261 | 0.79574904 | 0.54553668 |
| Ercc6  | 0.05702579  | 5.60019108 | 0.06874156 | 0.79587153 | 0.54556624 |
| Ctsk   | 0.10301698  | 2.38531761 | 0.06871947 | 0.79590355 | 0.54556624 |
| Chordc1| -0.0320859  | 6.72134123 | 0.06863721 | 0.79602284 | 0.54560983 |
| S1c16a14 | 0.07163058  | 4.04172305 | 0.06859872 | 0.79607869 | 0.54560993 |
| Tlr2   | -0.3189061  | -1.1053509 | 0.06854365 | 0.79615862 | 0.54562653 |
| Sod3   | -0.0686955  | 5.39044112 | 0.06847855 | 0.79625313 | 0.5456307 |
| Snn    | -0.031741   | 6.63171243 | 0.06842931 | 0.79632467 | 0.5456307 |
| Sirt2  | -0.0493922  | 6.66112863 | 0.0684244 | 0.79633181 | 0.5456307 |
| Trhr   | 0.1086988   | 1.50417131 | 0.06830518 | 0.79650511 | 0.54571127 |
| Tcof1  | 0.04820034  | 4.23575164 | 0.06819898 | 0.79665831 | 0.54577806 |
| S1c35g3 | -0.3378973   | -1.5128325 | 0.06799396 | 0.79695831 | 0.5459009 |
| Sgcz   | 0.12736398  | 1.8960049  | 0.0679554 | 0.79701453 | 0.5459009 |
| Hlx    | -0.3173728  | -1.893623  | 0.06790518 | 0.79708779 | 0.5459009 |
| Rab24  | -0.0434851  | 5.10408853 | 0.06789395 | 0.79710417 | 0.5459009 |
| Myg1   | -0.0714429  | 3.22637071 | 0.06788566 | 0.79711627 | 0.5459009 |
| 5730420D15 | 0.3290912   | -0.8912027 | 0.06775103 | 0.79731282 | 0.54599733 |
| Ddah1  | 0.03557364  | 7.1291285  | 0.06759679 | 0.79753827 | 0.54601801 |
| Mmrn2  | -0.225979   | -0.3197743 | 0.06759221 | 0.79754497 | 0.54601801 |
| Calu   | 0.04584479  | 6.14089054 | 0.06754829 | 0.79760921 | 0.54601801 |
| Zscan22 | -0.0416361  | 5.38400301 | 0.06754746 | 0.79761043 | 0.54601801 |
| Sipa12 | 0.06367113  | 4.53337432 | 0.06753974 | 0.79762172 | 0.54601801 |
| Cntr6  | -0.1023876  | 3.21774274 | 0.06749096 | 0.79769312 | 0.54620415 |
| Plekha6 | 0.03470943   | 6.85142814 | 0.06739004 | 0.79784089 | 0.54620415 |
| Mxs1   | -0.1021213  | 2.36231787 | 0.06738976 | 0.7978413 | 0.54620415 |
| Sfxn1  | -0.0336699  | 5.91828744 | 0.06715827 | 0.79818074 | 0.54620415 |
| Cd2bp2 | -0.0495313  | 4.98529416 | 0.067137 | 0.79821195 | 0.54620415 |
| Zbtb33 | 0.04052749  | 5.58479729 | 0.06708957 | 0.7982816 | 0.54620415 |
| Rnf139 | -0.0378346  | 5.09145467 | 0.06706577 | 0.79831654 | 0.54620415 |
| Rnf138rt1 | 0.2770617   | -1.5642962 | 0.0670628 | 0.79832091 | 0.54620415 |
| Letm1  | 0.0454421   | 5.94169306 | 0.06706107 | 0.79832345 | 0.54620415 |
| Gene   | Log2 Fold Change | P-value 1 | P-value 2 | P-value 3 | P-value 4 | P-value 5 |
|--------|-----------------|-----------|-----------|-----------|-----------|-----------|
| Nol10  | 0.06339884      | 4.15900657| 0.06704807| 0.79834254| 0.54602415|
| 2810029C07i | -0.1274977 | 2.23293347| 0.06704752| 0.79834335| 0.54602415|
| Dhx30  | 0.0667578       | 4.70608379| 0.06704264| 0.79835051| 0.54602415|
| Gskip  | 0.05146527      | 4.39577717| 0.06703934| 0.79835537| 0.54602415|
| Ccl3   | -0.4933085      | -2.0153871| 0.06693991| 0.79850149| 0.54608596|
| B930041F14 | -0.0448868 | 5.11013948| 0.06681828| 0.7986804 | 0.54617019|
| Coil   | -0.0663243      | 3.23445408| 0.0664889 | 0.79916576| 0.54646394|
| Creg1  | 0.0596795       | 4.80450992| 0.06639654| 0.79930209| 0.54650558|
| Six3os1| 0.11908209      | 0.77632868| 0.06637207| 0.79933823| 0.54650558|
| Ppic   | -0.0800218      | 4.60365247| 0.06632132| 0.7994132 | 0.5465095 |
| Otud7a | 0.08754215      | 3.09168606| 0.06629266| 0.79945555| 0.5465095 |
| Xxylt1 | -0.0568435      | 3.52555456| 0.06621232| 0.79957431| 0.54655254|
| Utp14a | 0.05164693      | 3.98157565| 0.0661184 | 0.79971326| 0.54660741|
| Tmem176b| -0.0718641   | 4.40405704| 0.06608265| 0.79976618| 0.54660741|
| Fam219b| 0.06201274      | 3.70312131| 0.06601612| 0.79986469| 0.54663659|
| 4921504A21| -0.0712459 | 3.35380676| 0.06595387| 0.79995691| 0.54665762|
| Tmub1  | -0.0761636      | 3.21800996| 0.06592003| 0.80000707| 0.54665762|
| Vcam1  | 0.04424587      | 5.84331922| 0.0658728 | 0.8000771 | 0.54666733|
| Ddx50  | -0.0321088      | 6.27247617| 0.06577454| 0.80022287| 0.5466993 |
| D10Jhu81e| 0.0522264   | 3.58095012| 0.06576602| 0.80023551| 0.5466993 |
| Gms512 | 0.07860224      | 2.50523899| 0.06565649| 0.80039814| 0.54671001|
| Mrpl43 | -0.0492731      | 5.11496143| 0.06565198| 0.80040484| 0.54671001|
| Mst1   | 0.32122298      | -1.388693 | 0.0656427 | 0.80041863| 0.54671001|
| Tfb2m  | -0.0419254      | 5.65396134| 0.06556211| 0.8005384 | 0.54675369|
| Tmbim6 | 0.04863757      | 6.63596553| 0.06542172| 0.80074723| 0.54685819|
| Btn2a2 | -0.3296814      | -0.4733493| 0.06521266| 0.80105864| 0.54701482|
| Slc25a1| -0.074283       | 3.82764877| 0.06519279| 0.80108827| 0.54701482|
| Mef2a  | 0.02840974      | 8.26170554| 0.06514493| 0.80115965| 0.54702543|
| Fgl2   | -0.0620719      | 4.78953892| 0.06497661| 0.80141092| 0.54715885|
| Mrc2   | -0.0836886      | 4.96143287| 0.06490829| 0.80151299| 0.54719041|
| Rab42  | -0.2729252      | -1.7234385| 0.06485637| 0.80159061| 0.54720525|
| Gimap4 | -0.0984856      | 3.0918841 | 0.06463579| 0.80192074| 0.54739247|
| 4933416C03i| -0.4129381   | -1.228785| 0.06458187| 0.80200152| 0.54740947|
| Dctn4  | -0.0300898      | 7.41932633| 0.0644804 | 0.80215365| 0.54747515|
| Dhx15  | 0.02733913      | 6.58366258| 0.06434581| 0.80235564| 0.54757486|
| Angpt1 | 0.05905911      | 4.59662105| 0.06419412| 0.80258356| 0.54769224|
| Sltm   | -0.0341408      | 7.70883421| 0.06414881| 0.8026517 | 0.54770059|
| Sdc4   | -0.0809173      | 5.26521449| 0.064012   | 0.80285758| 0.54780163|
| Ubp2   | 0.03047053      | 6.09196296| 0.06394244| 0.80296236| 0.54780163|
| Cccdc8 | -0.2274938      | -0.2951193| 0.06393899| 0.80296756| 0.54780163|
| Tmem222| 0.08513393      | 4.53161946| 0.06375224| 0.80324914| 0.54792068|
| Prps1  | -0.0302988      | 5.87724468| 0.06374907| 0.80325392| 0.54792068|
| Rspry1 | -0.0398495      | 4.75303855| 0.06368794| 0.8033462 | 0.54792378|
| Gene          | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Cks2         | 0.135365  | 0.30209845| 0.06366845| 0.80337562| 0.54792738|
| B930003M2    | -0.1832544| -0.1766797| 0.06351499| 0.80360751| 0.54802249|
| Dysf         | 0.18957503| 0.33250589| 0.06350212| 0.80362697| 0.54802249|
| AA543186     | -0.2348415| -1.0680148| 0.06342864| 0.80373813| 0.54806448|
| Icmt         | -0.0366522| 4.61061729| 0.06340409| 0.80377405| 0.54806448|
| Pthlh        | 0.08150757| 2.27733895| 0.06332886| 0.80388916| 0.54806862|
| H2-K1        | 0.06083232| 5.06587241| 0.06323227| 0.80403555| 0.54814844|
| Ceacam1      | -0.0762816| 2.96410889| 0.06311069| 0.80421986| 0.54817826|
| Efcc1        | -0.0723624| 2.53421232| 0.06310987| 0.80422111| 0.54817826|
| Eda          | 0.08484306| 2.48147763| 0.06309271| 0.80424714| 0.54817826|
| Suz12        | -0.0319555| 6.88359314| 0.06301122| 0.80437085| 0.54822443|
| Dnah6        | 0.14620437| 0.70873835| 0.06294609| 0.80446976| 0.5482537|
| Snrk         | -0.0302321| 6.38919124| 0.06286065| 0.80459962| 0.54825875|
| Gjc2         | -0.1545083| 0.31923454| 0.06285576| 0.80460706| 0.54825875|
| Spryd7       | -0.0333779| 5.47150062| 0.06276784| 0.80474078| 0.54825875|
| Galr1        | 0.30864686| -1.8175192| 0.06276631| 0.80474311| 0.54825875|
| Manba        | -0.0888718| 2.78624835| 0.06275717| 0.80475703| 0.54825875|
| Itm2b        | 0.05271203| 8.98079647| 0.06263519| 0.80494274| 0.54834714|
| Pds5a        | -0.0339022| 6.53371212| 0.06237352| 0.80534178| 0.54854267|
| Phf2         | -0.0260734| 6.53371212| 0.06237352| 0.80534178| 0.54854267|
| Disp1        | -0.0634405| 3.22651825| 0.06233286| 0.80540387| 0.54854682|
| Rab11fip1    | 0.05503859| 3.66126826| 0.06222390| 0.80557035| 0.54862206|
| Efna5        | -0.0375841| 6.08444567| 0.06216013| 0.80566787| 0.54863335|
| Zfp456       | 0.06823651| 3.08223601| 0.06208273| 0.80578629| 0.54863335|
| 1110038F14L  | -0.0682732| 3.35510242| 0.06206506| 0.80581333| 0.54863335|
| Fhl3         | -0.1043049| 2.04694674| 0.06206176| 0.80581839| 0.54863335|
| Il17d        | -0.0938646| 0.95456877| 0.06196978| 0.80595925| 0.54863335|
| 1110051M2C   | 0.04557408| 4.1589489| 0.06196286| 0.80596985| 0.54863335|
| Calr         | -0.0346831| 6.40600111| 0.06194558| 0.80599632| 0.54863335|
| Gas1         | 0.06566412| 5.78647272| 0.06191379| 0.80604504| 0.54863335|
| Gmppa        | 0.04174038| 3.73672678| 0.06184834| 0.80614539| 0.54863335|
| Lrrc6        | 0.05578011| 3.88873187| 0.06184728| 0.80614702| 0.54863335|
| Mamstr       | 0.14334535| 0.20664591| 0.06165557| 0.80644127| 0.54877168|
| Mdm4         | -0.0287307| 6.15415626| 0.06164186| 0.80646233| 0.54877168|
| Zhx3         | -0.0349726| 6.21195891| 0.06145073| 0.8067562| 0.54893352|
| Tbeta        | -0.1834237| -0.0328198| 0.06120108| 0.8071408| 0.54903433|
| Pgd          | -0.0503084| 5.24899362| 0.06118703| 0.80716247| 0.54903433|
| 4931440F15I  | 0.1897122| -0.2478327| 0.06117267| 0.80718462| 0.54903433|
| Slmo1        | 0.05233744| 5.01944233| 0.06114297| 0.80723045| 0.54903433|
| Mettl3       | 0.05271064| 3.85454975| 0.06115539| 0.807273| 0.54903433|
| Pigu         | -0.0580875| 3.77721647| 0.06108086| 0.80732631| 0.54903433|
| Dlx4         | -0.3799486| -1.9372752| 0.06097698| 0.80748675| 0.54903433|
| Trim13       | 0.07389293| 2.67528309| 0.06097123| 0.80749564| 0.54903433|
| Gene      | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   | Value   |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Snapc1    | 0.03093802 | 5.51212667 | 0.06093418 | 0.8075529  | 0.54903433 |
| Slc25a3   | -0.0269996 | 7.93988783 | 0.06089197 | 0.80761816 | 0.54903433 |
| Ali854703 | -0.0707244 | 3.07551616 | 0.06084956 | 0.80768376 | 0.54903433 |
| Snrnp27   | -0.0534437 | 5.43105277 | 0.06080195 | 0.80775742 | 0.54903433 |
| Ppp1r1b   | 0.05414844 | 5.39614067 | 0.06079049 | 0.80777516 | 0.54903433 |
| Morc3     | 0.05408793 | 4.54665494 | 0.06078818 | 0.80777873 | 0.54903433 |
| Zfp668    | -0.0542665 | 3.70242168 | 0.0607807 | 0.80779031 | 0.54903433 |
| Map2k6    | -0.047453 | 4.00294987 | 0.06077368 | 0.80780117 | 0.54903433 |
| Myh7b     | 0.10660146 | 2.32790488 | 0.06071677 | 0.80788929 | 0.54905612 |
| Tax1bp1   | -0.027462 | 8.62016464 | 0.06066459 | 0.80797012 | 0.54907296 |
| Epyc      | -0.1745482 | -0.2199656 | 0.06055276 | 0.80814348 | 0.54915267 |
| Lpo       | 0.27381575 | -8.109951 | 0.06036529 | 0.80843448 | 0.54927488 |
| Glyr1     | -0.0379667 | 5.78046531 | 0.06035499 | 0.80845049 | 0.54927488 |
| Gm19522   | -0.0737464 | 2.40790063 | 0.06032857 | 0.80849154 | 0.54927488 |
| Gm11944   | 0.13714952 | 0.61037529 | 0.06027618 | 0.80857297 | 0.5492921 |
| Gm13251   | -0.0794718 | 2.15003669 | 0.06020483 | 0.80868394 | 0.54930235 |
| Ciapin1   | -0.0385655 | 4.72236937 | 0.06018812 | 0.80870994 | 0.54930235 |
| Tfr2      | -0.1222463 | 0.97778747 | 0.06015833 | 0.8087563 | 0.54930235 |
| Pole2     | -0.1523007 | 1.03558652 | 0.06004601 | 0.80893119 | 0.54938304 |
| Bsd1      | 0.03772373 | 5.28190997 | 0.05986698 | 0.80921033 | 0.54950011 |
| Cit       | 0.03896632 | 7.31494479 | 0.0598635 | 0.80921576 | 0.54950011 |
| Cbhn1     | 0.09142106 | 1.84551883 | 0.05979113 | 0.80932872 | 0.54951175 |
| Zfp740    | 0.04675844 | 4.79995904 | 0.05977719 | 0.8093505 | 0.54951175 |
| Vmn2r18   | -0.3778799 | -1.8672575 | 0.05968929 | 0.80948782 | 0.54951175 |
| A330041J22f | 0.17162552 | 0.8516935 | 0.05968116 | 0.80950052 | 0.54951175 |
| D16Ertd472e | 0.04511172 | 6.32211038 | 0.05966727 | 0.80952223 | 0.54951175 |
| Sgsh      | 0.09549143 | 1.3039999 | 0.05960862 | 0.80961394 | 0.54951175 |
| Ccde40    | -0.1675943 | 0.06775867 | 0.05958348 | 0.80965326 | 0.54951175 |
| Rbpb8     | 0.05706083 | 4.13428988 | 0.0595653 | 0.8096817 | 0.54951175 |
| Dusp7     | -0.0289743 | 6.05121561 | 0.05948566 | 0.80980634 | 0.54955827 |
| Zfp354a   | 0.04781817 | 3.36857815 | 0.05942844 | 0.80989596 | 0.54958101 |
| Glccl1    | -0.0286077 | 6.88902066 | 0.05937665 | 0.8099771 | 0.549598 |
| Tlk2      | -0.0309514 | 7.11573256 | 0.05927167 | 0.81014171 | 0.54967161 |
| Matn2     | -0.0685463 | 3.70694898 | 0.05911967 | 0.81038031 | 0.54979542 |
| Slc26a10  | 0.11628197 | 0.66412926 | 0.05906618 | 0.81046436 | 0.54980282 |
| Tmem221   | 0.1986663 | -0.4644933 | 0.05903883 | 0.81050735 | 0.54980282 |
| Rps15a-ps4 | -0.0918593 | 1.32191386 | 0.05899968 | 0.8105689 | 0.54980282 |
| Gm10409   | 0.05978629 | 4.00369907 | 0.05896292 | 0.81062671 | 0.54980282 |
| Mir1b     | 0.37544325 | -1.1700818 | 0.05893423 | 0.81067186 | 0.54980282 |
| Kpna2     | -0.031191 | 5.17679393 | 0.0588475 | 0.81080837 | 0.54984625 |
| Gtf2a2    | -0.0401675 | 4.82817 | 0.05876964 | 0.81093101 | 0.54984625 |
| Tnfaip8l2 | 0.20860016 | -0.6473809 | 0.05875335 | 0.81095669 | 0.54984625 |
| Slc25a10  | 0.11108213 | 1.47873183 | 0.05871848 | 0.81101166 | 0.54984625 |
| Gene     | Value1  | Value2      | Value3  | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 |
|----------|---------|-------------|---------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Unk      | 0.05539974 | 3.96633081 | 0.05871536 | 0.81101657 | 0.54984625 |
| Phhip    | 0.05098428 | 3.65865418 | 0.05850342 | 0.81135103 | 0.54989083 |
| Ptcd1    | 0.04464721 | 3.70359012 | 0.05822308 | 0.81179443 | 0.55003099 |
| Zfand5   | 0.02609444 | 8.01763302 | 0.05772042 | 0.81259228 | 0.55036038 |
| Slc31a2  | 0.06712617 | 5.11246442 | 0.05757338 | 0.81282636 | 0.55036009 |
| Sngh3    | 0.08644688 | 3.02494622 | 0.05755574 | 0.81285447 | 0.55036089 |
| Rs1      | 0.07252597 | 2.89096568 | 0.05754868 | 0.81286585 | 0.55036089 |
| Bcl6b    | -0.1375699 | 0.05208606 | 0.05750347 | 0.81293778 | 0.55036089 |
| Klf10    | -0.0330932 | 5.66406060 | 0.05749676 | 0.81294847 | 0.55036089 |
| Rnf38    | 0.02650978 | 7.97757377 | 0.05690276 | 0.81389803 | 0.55068892 |
| Eefsec   | -0.0713864 | 2.69284834 | 0.05689703 | 0.81390723 | 0.55068892 |
| Gm8615   | -0.0576048 | 2.82423481 | 0.05686376 | 0.81396057 | 0.55068892 |
| Cd301g   | -0.2096995 | -1.1975361 | 0.05683773 | 0.81400231 | 0.55068892 |
| Nppc     | 0.18486239 | -0.4988418 | 0.05677084 | 0.81410964 | 0.5507235 |
| Atg16l2  | -0.118927  | 1.46873458 | 0.05666263 | 0.8142834 | 0.55080301 |
| Phyhip   | -0.0392253 | 6.76786975 | 0.0565906 | 0.81439916 | 0.55084327 |
| 93301170O12 | -0.0963568 | 1.48878023 | 0.05654382 | 0.81447437 | 0.55085611 |
| E130309D02 | -0.0465879 | 4.011427 | 0.05648494 | 0.81456911 | 0.55088214 |
| Fut2     | -0.1483986 | 0.5704096 | 0.05629305 | 0.81487819 | 0.55097336 |
| Poli     | -0.0456137 | 3.37439859 | 0.05620907 | 0.81501363 | 0.55097336 |
| Sdc1     | 0.09606633 | 2.17858721 | 0.05615572 | 0.81509973 | 0.55097336 |
| Khl8     | -0.0461058 | 4.31491677 | 0.05615194 | 0.81510584 | 0.55097336 |
| Pcdhb13  | 0.07176535 | 3.50224641 | 0.05612054 | 0.81515653 | 0.55097336 |
| Inhbe    | 0.42362094 | -1.9838091 | 0.05611266 | 0.81516926 | 0.55097336 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  | Value11  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Rmst   | 0.16702802 | 0.98297744 | 0.0561199 | 0.81517048 | 0.55097336 |
| Negr1  | -0.0324497 | 8.24486592 | 0.05605325 | 0.81526522 | 0.55097336 |
| Kcns1  | 0.08255286 | 1.60185337 | 0.05603545 | 0.81529399 | 0.55097336 |
| 1700124L16f | -0.2724596 | -1.713115 | 0.05599586 | 0.81535798 | 0.55097336 |
| 1700013F07l | 0.1290292 | -0.0736069 | 0.05598968 | 0.81536798 | 0.55097336 |
| Spapl3 | 0.03101366 | 5.25228808 | 0.05596521 | 0.81540755 | 0.55097336 |
| Mmgt2  | -0.0599656 | 3.31545724 | 0.0559481 | 0.81543522 | 0.55097336 |
| Fam173a| -0.0621707 | 3.09933044 | 0.05590661 | 0.81550234 | 0.5509807 |
| Wrb    | -0.0310017 | 5.3922587 | 0.05581602 | 0.81564899 | 0.55104178 |
| Eva1c  | -0.0897947 | 2.79785056 | 0.05563533 | 0.81594185 | 0.55120162 |
| Ppp1r12b | 0.06174665 | 5.67617441 | 0.05546269 | 0.81622214 | 0.55132333 |
| Notch3 | 0.09661306 | 2.36530039 | 0.05545502 | 0.8162346 | 0.55132333 |
| Nop58  | 0.0351781 | 6.14567815 | 0.05524921 | 0.81656938 | 0.55151143 |
| Mdk    | -0.0714544 | 3.66848016 | 0.0550932 | 0.81682359 | 0.55158436 |
| Oprk1  | 0.07644381 | 3.81311892 | 0.05506106 | 0.81687601 | 0.55158436 |
| Rapsn  | -0.3572627 | -2.5007466 | 0.05500787 | 0.81696279 | 0.55158436 |
| Tmem126b | -0.0488868 | 4.18323739 | 0.0549958 | 0.81698249 | 0.55158436 |
| Tceal1 | 0.03879748 | 5.42049778 | 0.05499405 | 0.81698535 | 0.55158436 |
| Emr1   | 0.15058083 | 0.98634245 | 0.05497574 | 0.81701523 | 0.55158436 |
| Mcm4   | -0.0445093 | 4.37157769 | 0.05485366 | 0.81721465 | 0.55168097 |
| Fem1c  | 0.03551793 | 5.33679925 | 0.05478222 | 0.81733145 | 0.55171063 |
| Eps8l1 | -0.0570632 | 2.75832042 | 0.05466925 | 0.81751631 | 0.55171063 |
| P4hb   | 0.05411012 | 5.58337131 | 0.05466268 | 0.81752708 | 0.55171063 |
| Ch25h  | 0.29853891 | -1.5622507 | 0.05462353 | 0.81759119 | 0.55171063 |
| Pcdh18 | -0.0536197 | 3.19480884 | 0.05450904 | 0.81777883 | 0.55171063 |
| Dmrtc1a| 0.10776877 | 0.89570495 | 0.05448416 | 0.81781965 | 0.55171063 |
| Gm5    | -0.2429693 | -0.5194814 | 0.05448076 | 0.81782522 | 0.55171063 |
| Ccdc130| -0.0855022 | 2.27195659 | 0.05446973 | 0.81784331 | 0.55171063 |
| Rep15  | -0.317889 | -1.3864379 | 0.05444726 | 0.81788019 | 0.55171063 |
| Lypd6b | 0.05206818 | 3.94970159 | 0.05439532 | 0.81796544 | 0.55171063 |
| Clic6  | 0.0769543 | 2.60919011 | 0.05438854 | 0.81797656 | 0.55171063 |
| Wdr83  | 0.0618876 | 2.6962975 | 0.05438545 | 0.81798163 | 0.55171063 |
| Sla2   | -0.1483633 | -0.1584206 | 0.05436485 | 0.81801546 | 0.55171063 |
| 4933405O20 | -0.3463482 | -0.526677 | 0.05433642 | 0.81806215 | 0.55171063 |
| Spata18 | 0.12667857 | 0.3596755 | 0.05431129 | 0.81810344 | 0.55171063 |
| Nphs2  | -0.0627536 | 3.92360048 | 0.054152 | 0.8183635 | 0.55184926 |
| Sidt1  | 0.04448113 | 5.12946762 | 0.05410147 | 0.81844852 | 0.55186736 |
| Fam43b | -0.0929526 | 2.4659987 | 0.05404408 | 0.81854305 | 0.55187364 |
| Scl17a6| 0.03924724 | 4.81099216 | 0.05400021 | 0.81861532 | 0.55187364 |
| Spaca1 | 0.18439239 | 0.59477305 | 0.05399321 | 0.81862686 | 0.55187364 |
| Vopp1  | -0.0307802 | 5.84434405 | 0.05383695 | 0.8188846 | 0.5520094 |
| Piwil4 | 0.24106275 | -0.897219 | 0.05364762 | 0.8191974 | 0.55212434 |
| Gpatch3| 0.17387105 | -0.187732 | 0.05364293 | 0.81920516 | 0.55212434 |
| Gene      | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|-----------|--------|--------|--------|--------|--------|--------|
| Efcab4a   | 0.11147523 | 0.98823308 | 0.05363142 | 0.8192242 | 0.55212434 |
| BB557941  | 0.31692946 | -0.6396822 | 0.05357678 | 0.8193146 | 0.55214727 |
| Ikzf5     | -0.0335023 | 5.07149542 | 0.05351007 | 0.81942503 | 0.5521837 |
| Ace       | -0.0762495 | 5.32388205 | 0.05342072 | 0.81957306 | 0.55224546 |
| Sap30l    | 0.05026135 | 3.93973451 | 0.05336861 | 0.81965945 | 0.55226569 |
| Neur1La   | -0.0526292 | 4.46459299 | 0.05332275 | 0.81973551 | 0.55227895 |
| Lin54     | -0.0381522 | 4.48532347 | 0.05321777 | 0.81990977 | 0.55235836 |
| Cabyr     | 0.05832024 | 4.12377264 | 0.05315867 | 0.82000796 | 0.55238652 |
| Tmeff2    | -0.0315401 | 6.92265816 | 0.05310302 | 0.82010045 | 0.55241083 |
| Cryga     | 0.31081476 | -1.8631762 | 0.05265055 | 0.82085446 | 0.55287427 |
| Dnajc24   | -0.0439333 | 3.81975444 | 0.05262248 | 0.82090136 | 0.55287427 |
| Zfp790    | -0.0446052 | 4.40422388 | 0.05255001 | 0.82102247 | 0.55288271 |
| 4933416I08R | 0.22558333 | -1.0641654 | 0.05254744 | 0.82102677 | 0.55288271 |
| Fam57a    | -0.0940399 | 1.66580717 | 0.0525097 | 0.82108988 | 0.5528872 |
| Spock1    | 0.03370838 | 8.18431266 | 0.05244831 | 0.82119259 | 0.55291835 |
| Rbms3     | 0.03767739 | 7.34695524 | 0.05232335 | 0.82140185 | 0.55302124 |
| Ptprh     | 0.2028269 | -0.9851058 | 0.05222424 | 0.82156801 | 0.55309509 |
| Tulp3     | -0.0518921 | 5.2594078 | 0.05216619 | 0.8216654 | 0.55310704 |
| Sell      | 0.29952565 | -1.0459632 | 0.05209538 | 0.8217843 | 0.55310704 |
| Znhit6    | 0.03361475 | 5.17501458 | 0.05208649 | 0.82179924 | 0.55310704 |
| Mfap2     | -0.1372494 | -0.0144527 | 0.05207911 | 0.82181163 | 0.55310704 |
| Nkain1    | -0.036089 | 4.40543864 | 0.051923 | 0.82207407 | 0.55322544 |
| Papd5     | -0.0359614 | 6.11240003 | 0.05190729 | 0.82210051 | 0.55322544 |
| Kras      | -0.0340092 | 8.1423861 | 0.05172433 | 0.82240867 | 0.55338915 |
| Lrrc49    | 0.04786198 | 4.99706323 | 0.05166183 | 0.82251407 | 0.55338915 |
| 4930579K19I | 0.34188404 | -1.3326872 | 0.05163384 | 0.82256129 | 0.55338915 |
| Ap4m1     | -0.0987885 | 1.14471779 | 0.05162882 | 0.82256977 | 0.55338915 |
| Ppargc1b  | -0.0674114 | 3.29665832 | 0.05153137 | 0.8227343 | 0.55346183 |
| BC022687  | -0.0768449 | 1.99778136 | 0.05139302 | 0.82296818 | 0.55357177 |
| Pard3     | -0.032225 | 5.12882172 | 0.05134479 | 0.82304978 | 0.55357177 |
| Pdzn3     | 0.02885332 | 7.30350977 | 0.05124469 | 0.82321927 | 0.55357177 |
| Glod4     | -0.0299733 | 5.51592075 | 0.05122091 | 0.82325958 | 0.55357177 |
| Grasp     | 0.04066746 | 4.23156831 | 0.05126012 | 0.82328464 | 0.55357177 |
| Hsd17b4   | -0.0388135 | 5.79095532 | 0.05118468 | 0.82332098 | 0.55357177 |
| Pdha1     | -0.0234638 | 7.41076837 | 0.05111617 | 0.82343715 | 0.55357177 |
| Gm10548   | -0.0879878 | 1.74627685 | 0.0510725 | 0.82351126 | 0.55357177 |
| Wdr74     | -0.0643186 | 2.90109075 | 0.05107192 | 0.82351224 | 0.55357177 |
| Nkx6-2    | 0.13955667 | 0.35293073 | 0.0510073 | 0.82362195 | 0.55357177 |
| H6pd      | 0.05420917 | 3.62020881 | 0.05096497 | 0.82369385 | 0.55357177 |
| Mgat3     | -0.0310161 | 6.48403666 | 0.05095294 | 0.8237143 | 0.55357177 |
| Chst13    | 0.27778868 | -0.7207541 | 0.05094111 | 0.82373441 | 0.55357177 |
| Perp      | -0.0805658 | 6.65280061 | 0.05089529 | 0.8238123 | 0.55357177 |
| Fst       | -0.140086 | 0.61537621 | 0.05088982 | 0.8238216 | 0.55357177 |
| Gene   | Expression |
|--------|------------|
| 2900026A02 | -0.0357991 5.8920017 0.0508827 0.8238337 0.55357177 |
| Romo1  | -0.0695232 4.01738062 0.05086814 0.82385846 0.55357177 |
| Ascc1  | 0.06579821 3.49080484 0.05073946 0.82407746 0.55364825 |
| Srsf11 | -0.0301214 6.73223638 0.05073484 0.82408533 0.55364825 |
| Mpp3   | 0.04721029 3.41134994 0.05061888 0.82428296 0.55374305 |
| Gm5113 | 0.05614871 4.18435604 0.05053977 0.82441791 0.5537655 |
| Fasn   | 0.04423383 6.43402626 0.05050831 0.82447161 0.5537655 |
| Nsf    | 0.03285406 9.99472431 0.05049989 0.82448598 0.5537655 |
| Zfp629 | -0.044576 4.52124725 0.05030813 0.8248137 0.55394762 |
| Gkn3   | -0.3154328 -1.1762182 0.05015504 0.8250758 0.5540843 |
| Nfatc4 | 0.08957545 3.20919778 0.05008258 0.82520002 0.5540843 |
| Kcnk5  | 0.09595332 2.33406875 0.05008066 0.82520331 0.5540843 |
| Aars2  | 0.08318458 1.65531529 0.05003238 0.82528611 0.5540843 |
| Srp72  | -0.0230804 7.21966283 0.05002427 0.82530003 0.5540843 |
| Pinx1  | 0.05253822 3.43679909 0.04987868 0.82555004 0.55421416 |
| Ints5  | -0.0629034 3.12011143 0.04972933 0.82580689 0.5543696 |
| Kctd3  | -0.0406559 5.13243541 0.04969787 0.82586104 0.5543696 |
| Bcar1  | 0.03642107 4.23651133 0.04954614 0.8261225 0.55448447 |
| 2610524H06 | -0.0595917 2.15892431 0.0494029 0.82636971 0.55461238 |
| Ipo8   | 0.03553715 5.43226085 0.04930309 0.82654219 0.55468082 |
| Cd1d1  | 0.27675739 -1.2586938 0.04927837 0.82658494 0.55468082 |
| Sfxn3  | -0.0319391 7.52997578 0.04921862 0.8266883 0.55468538 |
| Nts    | -0.1166864 1.01467383 0.04917351 0.82676637 0.55468538 |
| Tcirg1 | -0.078475 1.52990941 0.04911132 0.82687409 0.55468538 |
| 2410016O06 | -0.0555652 3.82287711 0.04901877 0.82703451 0.55468538 |
| Gm3604 | 0.05395007 2.73309904 0.04900706 0.82705483 0.55468538 |
| Tmem220 | -0.0675122 2.86846777 0.04899333 0.82707864 0.55468538 |
| 2010109A12 | 0.27213821 -2.023385 0.04896507 0.82712767 0.55468538 |
| Fosl2  | 0.06987377 6.03954939 0.04896312 0.82713105 0.55468538 |
| Mr1    | -0.0539093 4.41173809 0.04895549 0.8271443 0.55468538 |
| 4632415L05f | 0.03254068 5.48944619 0.04894759 0.827158 0.55468538 |
| Sned1  | -0.0607095 4.23200509 0.04884117 0.82734282 0.55477134 |
| Catsper2 | 0.07407996 1.9578967 0.04874375 0.82751218 0.55486962 |
| 5730405O15 | 0.17569218 -0.293786 0.0486861 0.82761248 0.55484833 |
| 6330403A02 | 0.03648012 7.47245341 0.04865005 0.82767524 0.55484833 |
| Nsdhl  | 0.037095 4.56977349 0.04864489 0.82768422 0.55484833 |
| Cdk17  | 0.03298202 7.87426799 0.04827042 0.82833758 0.55521158 |
| Samd8  | 0.0296097 6.05743869 0.04821326 0.82843755 0.55521158 |
| Scpep1 | 0.04586701 5.11264015 0.04818037 0.8284951 0.55521158 |
| Rhobtb1 | 0.06578988 2.61378833 0.04811821 0.82860392 0.55521158 |
| Ttc23  | -0.0628478 2.80822105 0.04810079 0.82863443 0.55521158 |
| BC052040 | 0.04127925 4.25305052 0.04807382 0.82868168 0.55521158 |
| Tlr1   | -0.2785238 -0.9829122 0.04802736 0.82876311 0.55521158 |
| Gene       | RRP12  | Spint2  | Cdc23  | Trim30d  | Aimp1  | Sgms2  | Tdrd9  | Cd1h  | Sgpp2  | Clnd2  | Rnf138  | Syt1  | Gm6086  | Ccdc23  | Soc1  | Ifi30  | Ppib  | Fgf11  | Fam213a  | Uba5  | Blhla9  | Tmem120b  | Syp  | Sbsn  | Hsd17b12  | Dusp9  | Gabpb2  | Gm5086  | Gen1  | Zfyve1  | Rbm27  | Pigo  | Cmkrl1  | Coro2a  | Gpr150  | Fth1  | BC021891  | Hlft  | Dhrs7  | Ly86  | Phf14  | Oxa1l  | Cpeb1  |
|------------|--------|---------|--------|---------|--------|--------|--------|-------|--------|--------|---------|--------|--------|---------|--------|------|-------|-------|-------|----------|-------|--------|----------|------|-------|----------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Nt5e  | 0.05772559 | 4.27306299 | 0.04576971 | 0.83277072 | 0.55631643 |
| Mutyh | -0.125155  | -0.0979963 | 0.04571976 | 0.83286054 | 0.55633778 |
| Tmem164 | 0.0328645  | 4.58664058 | 0.045687  | 0.83291948 | 0.55633778 |
| Smo   | -0.0627936 | 6.95353589 | 0.04565723 | 0.83297306 | 0.55633778 |
| Clec9a| 0.19560705 | -0.0266248 | 0.04560352 | 0.83306977 | 0.55634714 |
| Tappb | 0.06783158 | 4.62292862 | 0.04558479 | 0.83310352 | 0.55634714 |
| Ankrd37| 0.08517421 | 1.64700432 | 0.04555485 | 0.83315747 | 0.55634714 |
| Rbm15 | -0.0357867 | 3.93178982 | 0.04548854 | 0.83327702 | 0.55637426 |
| Alad  | -0.0562096 | 2.53834977 | 0.04544333 | 0.83335859 | 0.55637426 |
| Nup107| 0.03346748 | 5.63223317 | 0.04537484 | 0.83336849 | 0.55637426 |
| Tmem132c| 0.05936353 | 2.32488406 | 0.04540217 | 0.83343287 | 0.55637933 |
| Shh   | 0.08712651 | 2.02679904 | 0.04529388 | 0.83362851 | 0.556472  |
| Slc13a5| 0.06496561 | 2.26735821 | 0.04514939 | 0.83388992 | 0.55660857 |
| Slc16a12| -0.0584173 | 4.08482467 | 0.04504503 | 0.834079  | 0.55666289 |
| Ndst1 | 0.02794445 | 5.73500255 | 0.04499296 | 0.83417343 | 0.55666289 |
| Ttf1  | 0.03096555 | 4.43710407 | 0.04497422 | 0.83420743 | 0.55666289 |
| Lrmt2 | 0.04073361 | 5.89053661 | 0.04492628 | 0.83429443 | 0.55666289 |
| Zfp748| 0.03736089 | 4.81917853 | 0.04491045 | 0.83432318 | 0.55666289 |
| Cdk4  | 0.05082487 | 4.37868643 | 0.04490612 | 0.83433103 | 0.55666289 |
| Gm12060| -0.2021732 | -1.0311945 | 0.04488516 | 0.8343691  | 0.55666289 |
| Itm2a | 0.05678325 | 6.66213787 | 0.04452793 | 0.83501929 | 0.55702958 |
| Otud3 | -0.0749319 | 1.74259567 | 0.04451233 | 0.83504774 | 0.55702958 |
| Trpm4 | -0.0860379 | 2.0419583 | 0.04448953 | 0.83508934 | 0.55702958 |
| Plek  | 0.03451662 | 4.63025579 | 0.04445225 | 0.83515738 | 0.55703704 |
| Zfp637| -0.0501537 | 3.80381429 | 0.04424263 | 0.83554052 | 0.55725464 |
| Gpr146| 0.04494965 | 4.1900935  | 0.04418468 | 0.83564661 | 0.5572646 |
| Arhgef11| -0.0273864 | 6.85563668 | 0.04417232 | 0.83566924 | 0.5572646 |
| Ncoa4 | 0.02367938 | 7.81367737 | 0.0440118  | 0.83596352 | 0.55740717 |
| Tmem9 | 0.04625022 | 4.96445114 | 0.04399365 | 0.83599684 | 0.55740717 |
| Igfbp2| -0.0612966 | 4.96392241 | 0.04387952 | 0.83620645 | 0.55750898 |
| Hbs1l | -0.0274446 | 5.48903497 | 0.04377578 | 0.83639724 | 0.55759823 |
| Exo1  | 0.17464966 | -0.6416641 | 0.04364381 | 0.83664029 | 0.5577223 |
| 2810442N19| 0.15377338 | 0.21262058 | 0.0435461 | 0.83682048 | 0.55776754 |
| Ctdsp2| -0.0269055  | 6.57527525 | 0.0435152  | 0.83687752 | 0.55776754 |
| Tcn2  | 0.06337698 | 4.22294844 | 0.04351441 | 0.83687898 | 0.55776754 |
| Zdhhc8| -0.0433835 | 4.78650998 | 0.04347632 | 0.8369493  | 0.55777646 |
| Nup107| -0.0452374 | 3.78393651 | 0.04340121 | 0.83708809 | 0.557831  |
| Cdsn  | -0.1002491 | 0.95293506 | 0.04329924 | 0.83727668 | 0.55791872 |
| Phf10 | -0.0300173 | 5.32366642 | 0.04315432 | 0.83754514 | 0.55805543 |
| Slc7a11| -0.0426288 | 9.83007909 | 0.043122  | 0.83760508 | 0.55805543 |
| Tube1 | 0.1265459  | 0.36225688 | 0.04307704 | 0.83768848 | 0.55805543 |
| Slc2a1| -0.0468984 | 4.64273172 | 0.04306559 | 0.83770973 | 0.55805543 |
| Txk   | -0.2277595 | -1.7280901 | 0.04299411 | 0.83784247 | 0.5581059  |
| Gene     | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   | Value 10  |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Acaal1   | 0.0410238 | 3.87713101| 0.04292239| 0.83797574| 0.55815672|
| Rnf41    | -0.028822 | 5.35339329| 0.0427863 | 0.83822899| 0.55824923|
| Lmnb2    | -0.0513128 | 3.01885766| 0.04276801| 0.83826304| 0.55824923|
| Opn1mw   | -0.2061518 | -1.6765362 | 0.04275591| 0.83828559| 0.55824923|
| Adss     | 0.0218522 | 7.09678092| 0.04270356| 0.83838315| 0.55827624|
| Agpat9   | 0.08281316 | 1.27578134| 0.0426631 | 0.83845861| 0.55828853|
| 5930403L14 | -0.0561987 | 4.76609012| 0.04257487| 0.83862324| 0.55828896|
| Vdr      | 0.10298706| 0.75906916| 0.04256779| 0.83863646| 0.55828896|
| Tdrd3    | 0.028226  | 5.51620388| 0.04249573| 0.83877108| 0.55828896|
| Med26    | -0.0519102| 2.57431246| 0.04248597| 0.83878933| 0.55828896|
| Clec12a  | -0.2050905| -0.500665 | 0.04244778| 0.83886074| 0.55828896|
| Elmsan1  | 0.02782792| 5.92131118| 0.04246146| 0.83886381| 0.55828896|
| Ppm1g    | 0.03215375| 4.91335133| 0.04241084| 0.83892982| 0.55828896|
| Cd24a    | 0.04361502| 5.29033458| 0.04237318| 0.8390003 | 0.55828896|
| Flnc     | 0.07610185| 2.89884862| 0.04233984| 0.83906273| 0.55828896|
| Pcid2    | 0.05237392| 4.26634617| 0.04233912| 0.83906408| 0.55828896|
| Dfna5    | 0.04458746| 4.32154807| 0.0423273 | 0.8390862 | 0.55828896|
| Mst1r    | -0.1521417| -0.7294972 | 0.04225666| 0.83921856| 0.5583391 |
| 1700120C14| -0.1719971| -1.1689078| 0.04219713| 0.8393302 | 0.55835075|
| Nagk     | 0.05162236| 3.23250208| 0.04218653| 0.83935007| 0.55835075|
| Primpol  | -0.0789645 | 2.5564363 | 0.04213355| 0.8394945 | 0.55836077|
| Fam98c   | -0.16226358| -0.7052618 | 0.04210917| 0.83949529| 0.55836077|
| Hist1h2bf| -0.1674861| -0.8437802 | 0.04208741| 0.83953615| 0.55836077|
| Thbs2    | 0.05437864| 5.06590599| 0.04204618| 0.83961362| 0.5583705 |
| 0610038B21| 0.23794668| -1.8223318 | 0.04201896| 0.83966479| 0.5583705 |
| Dbndd2   | 0.02595126| 5.98223656| 0.04183765| 0.84000605| 0.55855952|
| Arhgap20 | 0.02676927| 8.42146037| 0.04173356| 0.84020231| 0.5585621 |
| Kcng1    | -0.1554959 | 0.10079227| 0.04156237| 0.84052563| 0.55875616|
| Traf3p1  | 0.02867141| 4.88522269| 0.04150796| 0.84062856| 0.55875616|
| Ppp5c    | -0.0333775| 4.63015193| 0.04149379| 0.84065537| 0.55875616|
| Cdkl2    | -0.0281891| 6.06379876| 0.04148255| 0.84067663| 0.55875616|
| Illdr2   | 0.03210643| 9.87099209| 0.04146212| 0.84071531| 0.55875616|
| Vrk1     | -0.0410759 | 3.86179314| 0.04140864| 0.8408166 | 0.55875616|
| Cd200    | 0.03359173| 6.86633435| 0.0413962 | 0.84084016| 0.55875616|
| Fan1     | 0.06916199| 1.65864258| 0.04135222| 0.84092351| 0.55875616|
| Mobp     | -0.0405648 | 5.81453183| 0.04129938| 0.84102372| 0.55875616|
| Herpud1  | 0.03690108| 4.41628755| 0.04129392| 0.84103409| 0.55875616|
| P2rx4    | -0.0526328 | 3.21501847| 0.04127355| 0.84107273| 0.55875616|
| Pstk     | -0.0483763 | 4.18438685| 0.04123481| 0.84114627| 0.55875616|
| Sdccag3  | -0.03361 | 4.74850971| 0.04122916| 0.84115699| 0.55875616|
| Sh3g1b2  | 0.02810741| 5.23675854| 0.04122893| 0.84115742| 0.55875616|
| Gm4759   | -0.2220793 | -0.9557459 | 0.04111438| 0.84137509| 0.55886285|
| P2ry14   | 0.07945175| 1.47512137| 0.04101091| 0.84157196| 0.5589508 |
| Gene   | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Tubg2  | -0.0399376 | 4.31544614 | 0.04098483 | 0.84162162 | 0.5589508 |
| F3     | -0.0457363 | 5.60082471 | 0.04087682 | 0.84182748 | 0.55904962 |
| Katnal1| 0.02836147 | 6.85502897 | 0.04084273 | 0.84189253 | 0.55905491 |
| Syt9   | -0.0476933 | 3.34875711 | 0.04077919 | 0.8420138 | 0.55909754 |
| Tmem169| 0.0443765 | 2.9231717 | 0.0406886 | 0.84218691 | 0.55917458 |
| 5730455P16| 0.02402291 | 7.14297718 | 0.04057586 | 0.8424026 | 0.55920718 |
| Arid5b | 0.028308 | 6.23806089 | 0.04057075 | 0.84241239 | 0.55920718 |
| Ppil6  | 0.08764048 | 2.35318332 | 0.04054685 | 0.84245815 | 0.55920718 |
| Pnkd   | -0.0270049 | 6.53540609 | 0.04053096 | 0.84248858 | 0.55920718 |
| Fen1   | 0.05372351 | 2.73471219 | 0.04045788 | 0.84262865 | 0.55920718 |
| Dlc1   | 0.02899344 | 6.60840981 | 0.04045436 | 0.84263541 | 0.55920718 |
| Cdc5   | 0.24211715 | -1.4969449 | 0.04045424 | 0.84263564 | 0.55920718 |
| Rubie  | -0.2437299 | -1.4883069 | 0.04034798 | 0.84283955 | 0.55923917 |
| Nudt10 | -0.0399788 | 3.41269048 | 0.04034517 | 0.84284944 | 0.55923917 |
| Foxn2  | -0.0368928 | 4.77039956 | 0.04033987 | 0.84285512 | 0.55923917 |
| Lig3   | 0.03599234 | 4.99211735 | 0.04020867 | 0.84310729 | 0.5593686 |
| Dca8   | -0.0241554 | 5.70611161 | 0.04010807 | 0.84330095 | 0.55945919 |
| Sulf1  | 0.046207 | 5.8986324 | 0.04002626 | 0.84345862 | 0.55948998 |
| 9630028B13| 0.09095794 | 2.68441156 | 0.04002471 | 0.8434616 | 0.55948998 |
| Nr1h3  | -0.07751 | 2.61585111 | 0.03997342 | 0.84356053 | 0.55951772 |
| Cleca1 | 0.18248412 | -0.821454 | 0.0399305 | 0.84364337 | 0.55953477 |
| Oaf    | -0.0839814 | 1.012557 | 0.03980459 | 0.84388667 | 0.5596257 |
| Hk2    | -0.054452 | 2.80291057 | 0.03977391 | 0.84394601 | 0.5596257 |
| Bak1   | -0.0519069 | 3.90940784 | 0.03977088 | 0.84395186 | 0.5596257 |
| Cd59a  | -0.0484245 | 4.58348747 | 0.03973264 | 0.84402588 | 0.55963689 |
| Itga2b | -0.1290869 | -0.091508 | 0.0396098 | 0.84426385 | 0.55974654 |
| Casp8ap2| 0.02247224 | 6.4656115 | 0.0395883 | 0.84430553 | 0.55974654 |
| Cby5r1 | 0.05171465 | 2.67456624 | 0.03955688 | 0.84436649 | 0.55974907 |
| Etal1  | -0.0401014 | 4.87202741 | 0.03949013 | 0.84449604 | 0.55979707 |
| Ap1g1  | 0.0324257 | 7.3243594 | 0.03942563 | 0.84462134 | 0.55980596 |
| Frat2  | 0.07339398 | 3.01946885 | 0.03942439 | 0.84462376 | 0.55980596 |
| Ephx1  | -0.0573664 | 4.19076574 | 0.03939036 | 0.84468991 | 0.55981192 |
| Gpr83  | 0.06426595 | 2.73427723 | 0.03926122 | 0.84494123 | 0.55993839 |
| Ugpl2  | -0.0233426 | 6.43308734 | 0.03921768 | 0.84502605 | 0.55993839 |
| Ccar2  | -0.044573 | 4.23588332 | 0.0391867 | 0.84508646 | 0.55993839 |
| Sirp1b1| 0.28170789 | -1.704659 | 0.03916805 | 0.84512281 | 0.55993839 |
| Gucy2g | 0.07918491 | 1.35849486 | 0.03912709 | 0.84520271 | 0.55993839 |
| Jod2   | 0.06635255 | 2.23009201 | 0.03911633 | 0.84522371 | 0.55993839 |
| Tmem33 | 0.02339056 | 6.24306401 | 0.03907631 | 0.84530183 | 0.55995227 |
| Nptx2  | 0.04531818 | 4.03919698 | 0.03898789 | 0.84547457 | 0.55998568 |
| Ppilr13b| 0.03067229 | 5.6077684 | 0.03896871 | 0.84551207 | 0.55998568 |
| Crh    | -0.1344061 | 0.14931193 | 0.03894662 | 0.84555527 | 0.55998568 |
| Chuk   | 0.03885906 | 4.87758158 | 0.0389335 | 0.84558093 | 0.55998568 |
| Gene          | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Rdh14        | -0.0359631 | 5.61458882 | 0.03881205 | 0.84581871 | 0.56003761 |
| Avl9         | -0.0304725 | 6.00225198 | 0.03880598 | 0.8458306 | 0.56003761 |
| Dennrd5a     | -0.0205061 | 7.52315641 | 0.03878548 | 0.84587079 | 0.56003761 |
| Arhgap10     | 0.0385166 | 4.4409268 | 0.03874114 | 0.84595772 | 0.56003761 |
| Fhod3        | 0.04135999 | 5.14905749 | 0.03873642 | 0.84596699 | 0.56003761 |
| 201010G12    | -0.2986481 | -1.5028494 | 0.03871837 | 0.84600239 | 0.56003761 |
| Bub3         | -0.0256365 | 5.85485399 | 0.03866242 | 0.8461122 | 0.56007245 |
| Atp5a1       | -0.0196983 | 9.40853935 | 0.03862436 | 0.84618695 | 0.56008408 |
| Arl5c        | 0.18257426 | -0.6989785 | 0.03856671 | 0.84630023 | 0.56012121 |
| Nkx2-2os     | 0.26184065 | -0.6508866 | 0.0384466 | 0.84653655 | 0.56023976 |
| Gramd1c      | 0.09166325 | 1.68330996 | 0.03830093 | 0.84682368 | 0.56039192 |
| Col6a6       | 0.23880137 | -1.4085711 | 0.03822909 | 0.8469655 | 0.56041312 |
| Nr2f1        | -0.031482 | 6.76098752 | 0.03822674 | 0.84697014 | 0.56041312 |
| Ptn2         | 0.04811089 | 4.93947843 | 0.0381253 | 0.84717061 | 0.56045893 |
| Tbc1d10a     | -0.0876009 | 1.66524401 | 0.03811503 | 0.84719093 | 0.56045893 |
| Mettl8       | -0.0490772 | 3.77776576 | 0.03809181 | 0.84723686 | 0.56045893 |
| Kif7         | -0.092633 | 1.49510603 | 0.03805816 | 0.84730347 | 0.56045893 |
| Hnrnpd       | 0.02119274 | 8.29361653 | 0.03804705 | 0.84732546 | 0.56045893 |
| 1700007K13I  | -0.1258139 | 0.10950649 | 0.0380063 | 0.84740615 | 0.560459 |
| Myo1c        | 0.04368519 | 5.19518825 | 0.03796255 | 0.84749285 | 0.560459 |
| Pcdhbl1      | 0.11155042 | 0.96598835 | 0.03793562 | 0.84754624 | 0.560459 |
| Fam162a      | -0.0433421 | 5.00443547 | 0.03793149 | 0.84755443 | 0.560459 |
| Qdpr         | -0.0252305 | 5.53356808 | 0.03785728 | 0.84770166 | 0.56045648 |
| Cnfr         | -0.0577993 | 4.14223416 | 0.03785636 | 0.84770348 | 0.56045648 |
| Alcam        | 0.04101738 | 9.49713943 | 0.03784004 | 0.84773588 | 0.56046548 |
| Upf1         | 0.03645529 | 4.27540549 | 0.037806 | 0.84780349 | 0.56047235 |
| Khhl10       | 0.20173626 | -0.8904987 | 0.03774962 | 0.84791551 | 0.56050858 |
| Rnf150       | 0.03332992 | 7.33779721 | 0.03765032 | 0.84811306 | 0.56060133 |
| Drosha       | -0.0244678 | 6.89888783 | 0.03761346 | 0.84818645 | 0.56060501 |
| Prxr2        | -0.0946057 | 3.43939736 | 0.03759005 | 0.84823309 | 0.56060501 |
| Ndufa4l2     | 0.13185209 | -0.0866325 | 0.03750846 | 0.84839574 | 0.56067468 |
| Fiz1         | 0.04223289 | 3.76023 | 0.03743563 | 0.84854107 | 0.56068093 |
| Gm11346      | 0.21511472 | -0.647839 | 0.03737507 | 0.84866204 | 0.56068093 |
| Reck         | -0.040231 | 5.35084657 | 0.03730553 | 0.84880106 | 0.56068093 |
| Dennd2d      | -0.1640148 | -0.2058797 | 0.03724889 | 0.84891439 | 0.56068093 |
| Eral1        | -0.0429948 | 3.54601251 | 0.03723218 | 0.84894784 | 0.56068093 |
| Xrcc1        | -0.0473183 | 2.99943505 | 0.03715261 | 0.84910726 | 0.56068093 |
| Hr           | 0.06786107 | 3.0286007 | 0.03712797 | 0.84915666 | 0.56068093 |
| Sec22c       | -0.0332889 | 4.63441973 | 0.03711876 | 0.84917511 | 0.56068093 |
| 5031425F14l  | 0.3891433 | -2.2204453 | 0.03711118 | 0.84919032 | 0.56068093 |
| Ptges        | -0.0512469 | 4.28233446 | 0.03710257 | 0.8492076 | 0.56068093 |
| Arc          | 0.07487407 | 5.37353445 | 0.03706934 | 0.84927426 | 0.56068093 |
| Shroom2      | -0.0206678 | 6.79998881 | 0.0370513 | 0.84931048 | 0.56068093 |
Gm6277  0.0643394  2.28629519  0.03701941  0.84937449  0.56068093
Htr2c  -0.0391492  4.57506655  0.03694077  0.8495325  0.56068093
Snx22  0.12293569  -0.2486315  0.03688898  0.84963667  0.56068093
Uchl3  -0.0393418  3.588282508  0.03688345  0.8496478  0.56068093
Lrpap1 -0.0373467  5.78732057  0.03688189  0.84965094  0.56068093
B430010I23F -0.188878  -0.1740072  0.03685028  0.84971454  0.56068093
Timm13 -0.0670359  2.54144414  0.03679577  0.84982432  0.56068093
Fgfbp1  0.06822011  4.61375719  0.03675415  0.84990819  0.56068093
Rhhdd2  0.03618377  4.33556615  0.03674912  0.84991832  0.56068093
Hsp90b1  0.02789448  9.12486298  0.03674155  0.8499336  0.56068093
Fos   -0.1284783  3.49210614  0.03673116  0.84995455  0.56068093
Syac3  0.07294576  2.03633713  0.03670573  0.85000588  0.56068093
Rab5b  0.02528361  7.01530066  0.03670397  0.85000938  0.56068093
Zfp688 -0.0916427  1.2095014  0.03669833  0.85002075  0.56068093
Per3   0.02434345  5.90032191  0.03666883  0.85008027  0.56068093
Gdi1  0.02545104  8.88966639  0.03665594  0.8500861  0.56068093
LOC1026324 -0.4506882 -1.9097647  0.03663787  0.85014277  0.56068093
Lamb3  0.24350654  -1.016154  0.03663341  0.85015179  0.56068093
Rim3  -0.1027685  0.8032777  0.03661943  0.85018001  0.56068093
Fam117a -0.0805619  3.77824039  0.03659128  0.85023687  0.56068093
Fgfr2  -0.0375362  6.83047451  0.03654233  0.85033581  0.56070843
Msx1os -0.250361  -1.7882486  0.03649091  0.85043979  0.56073925
Ift81  0.02294331  5.57400414  0.03644768  0.85052729  0.56075919
Gm15412 0.39284022  -1.650277  0.0364172  0.85058902  0.56076215
1810041L15f  0.04155792  5.52631739  0.03634287  0.85073965  0.56076328
Smad9  -0.0301213  5.40048518  0.03634264  0.85074012  0.56076328
C7   0.10083826  0.35357518  0.03633161  0.85076247  0.56076328
Tslp  0.24023825  -1.0755982  0.03624356  0.85094115  0.56084331
Gfer  0.04925542  3.00280689  0.03615969  0.85111153  0.56088035
BC065397 -0.1020167  0.92368029  0.03615952  0.85111188  0.56088035
Gna1  0.02619079  10.1861888  0.03606557  0.85130299  0.56093228
Tut1  -0.06255072  2.2972698  0.03606448  0.85130521  0.56093228
Lypd6 -0.034408  4.9247082  0.03585845  0.85172523  0.56108963
Tmem150c  0.04416743  4.08315618  0.0358499  0.8517427  0.56108963
BC037034  0.03817984  3.84047215  0.03584977  0.85174297  0.56108963
Vps33b  0.03330171  5.18058997  0.035835  0.85177314  0.56108963
Zfp219 -0.0598787  1.95613144  0.03578647  0.85187227  0.5611172
Stat1  -0.0301819  5.50301959  0.03574129  0.85196465  0.56114032
2700038G22 -0.112716  -0.1344479  0.03571068  0.85202727  0.56114383
Tmem203  0.04741578  2.72407557  0.03565358  0.85214415  0.56114954
Ly6c2 -0.1719817  -0.5892945  0.03562786  0.85219683  0.56114954
E130311K13I -0.0462577  3.48396889  0.03559804  0.85225792  0.56114954
Gpc4  0.03576285  4.23406779  0.03558499  0.85228467  0.56114954
| Gene | ID | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|------|----|--------|--------|--------|--------|--------|--------|
| Ido2 | 0.06680365 | 2.00854124 | 0.0355666 | 0.85232237 | 0.56114954 |
| Kli2 | -0.1275259 | 0.40890264 | 0.03550367 | 0.85245147 | 0.56117309 |
| Ccddcs | -0.0306316 | 5.81768813 | 0.03547195 | 0.85251658 | 0.56117309 |
| Dffa | 0.02741204 | 5.08935317 | 0.03546541 | 0.85253002 | 0.56117309 |
| Ail61453 | -0.0757654 | 1.73037844 | 0.03573838 | 0.85270882 | 0.56119894 |
| Sl100a4 | -0.0880999 | 3.08503307 | 0.03533145 | 0.85280536 | 0.56119894 |
| Pla2r1 | -0.1159076 | -0.1361902 | 0.03533102 | 0.85280624 | 0.56119894 |
| Rnf169 | -0.0209379 | 6.75839916 | 0.03531709 | 0.8528349 | 0.56119894 |
| Cybb | -0.1207784 | 0.85518632 | 0.03529277 | 0.85288496 | 0.56119894 |
| Slc39a14 | -0.0427457 | 3.35867201 | 0.03527913 | 0.85291304 | 0.56119894 |
| Gm8787 | -0.178815 | -1.3720546 | 0.03523555 | 0.85300281 | 0.5612203 |
| Gldn | 0.10771875 | 0.93540306 | 0.03519669 | 0.85308288 | 0.56122464 |
| Acacb | 0.09241722 | 1.28171749 | 0.03516468 | 0.85314889 | 0.56122464 |
| Kcnab2 | 0.03428518 | 5.95193359 | 0.03514897 | 0.85318129 | 0.56122464 |
| Ncoa6 | -0.0263865 | 8.53285239 | 0.03507994 | 0.85332379 | 0.56125728 |
| Cacnb3 | -0.0240382 | 6.89215654 | 0.03505865 | 0.85336775 | 0.56125728 |
| Gm6623 | -0.0543371 | 1.5751644 | 0.03504168 | 0.8534028 | 0.56125728 |
| Susd2 | 0.03643461 | 5.00079841 | 0.03500874 | 0.8534709 | 0.56126438 |
| Ppp1r36 | -0.1665868 | -2.099402 | 0.03492595 | 0.85364214 | 0.56131909 |
| Grin2d | -0.0614935 | 1.80761077 | 0.03491312 | 0.85366869 | 0.56131909 |
| Snapc3 | 0.03017133 | 4.89748963 | 0.03485436 | 0.8537904 | 0.56132802 |
| Gm19557 | 0.1745795 | -0.643446 | 0.03485123 | 0.85379689 | 0.56132802 |
| Clca1 | -0.1833312 | -0.4968022 | 0.03481286 | 0.85387641 | 0.56134262 |
| Osbp5 | -0.0364487 | 3.92473795 | 0.03474691 | 0.85401322 | 0.56139489 |
| Scara3 | -0.058479 | 6.56283487 | 0.03462652 | 0.85426328 | 0.56152158 |
| Suox | -0.0424388 | 4.24986719 | 0.03451828 | 0.85448851 | 0.56163194 |
| Zfp383 | -0.0531608 | 2.57221034 | 0.03444304 | 0.85464528 | 0.56166907 |
| Rab26 | -0.0509327 | 3.91471612 | 0.03442999 | 0.85467248 | 0.56166907 |
| Il17rc | -0.0722573 | 1.90977284 | 0.03440863 | 0.85471702 | 0.56166907 |
| Trit1 | 0.04821103 | 3.53345895 | 0.03435857 | 0.85482148 | 0.56167222 |
| Serpine1 | 0.13190677 | -0.2823831 | 0.03435138 | 0.85483649 | 0.56167222 |
| Trak1 | -0.0221017 | 7.52589125 | 0.03429198 | 0.85496056 | 0.56168141 |
| Tug1 | -0.0198427 | 8.05181296 | 0.03427035 | 0.85500577 | 0.56168141 |
| Nac1 | -0.0581921 | 7.77909032 | 0.03426234 | 0.85502251 | 0.56168141 |
| Rex2 | 0.18637857 | -1.6257951 | 0.03421917 | 0.85511278 | 0.56169187 |
| Sec14l3 | 0.18576129 | -0.5228344 | 0.03419989 | 0.85515311 | 0.56169187 |
| Gm10536 | 0.18182891 | -1.3984401 | 0.03415938 | 0.85523791 | 0.5617099 |
| Cta2b | 0.19363941 | -0.6607534 | 0.03411216 | 0.8553368 | 0.56173717 |
| Rims4 | 0.21055583 | -1.1305353 | 0.0339545 | 0.85566754 | 0.56190259 |
| Ciz1 | -0.0272255 | 5.70076852 | 0.0339026 | 0.8557766 | 0.56190259 |
| Sgk3 | 0.0285118 | 5.20054935 | 0.03388061 | 0.85582282 | 0.56190259 |
| Oas1b | 0.1298196 | 0.04731173 | 0.03387171 | 0.85584154 | 0.56190259 |
| Naa30 | 0.0255838 | 5.57942222 | 0.03384452 | 0.85589942 | 0.56190259 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Fam167a| -0.0634853| 2.37068262| 0.03380251| 0.85598713| 0.56190259|
| Dusp12 | 0.05972567| 2.30696083| 0.03376984| 0.85605592| 0.56190259|
| Foxl2  | 0.21417151| -0.4672663| 0.0337343| 0.85613079| 0.56190259|
| Gigyf2 | 0.02759137| 6.95812281| 0.03370707| 0.85618819| 0.56190259|
| Zfp935 | 0.03681627| 4.49689751| 0.03370009| 0.8562029| 0.56190259|
| Jade1  | 0.02507674| 6.43364774| 0.03363354| 0.8563433| 0.56190259|
| Ak2    | -0.0409757| 4.85332912| 0.03363222| 0.85634609| 0.56190259|
| Entpd6 | 0.04465385| 3.09505747| 0.03361241| 0.8563879| 0.56190259|
| Gm1196 | -0.0741429| 1.18376986| 0.03361059| 0.85639175| 0.56190259|
| Ckb    | -0.0286182| 7.92797394| 0.03355775| 0.85650334| 0.56193817|
| Oas2   | -0.1157015| 0.13255888| 0.03348912| 0.85664844| 0.56199448|
| Plxdc1 | -0.0397933| 2.91556988| 0.0334629| 0.85670392| 0.56199448|
| Fam63b | 0.02213174| 7.76590666| 0.0330555| 0.85703731| 0.56210687|
| 4933407K13I | -0.0856201| 1.84513764| 0.0330319| 0.85704232| 0.56210687|
| Myb    | -0.0890451| 0.61825725| 0.0330079| 0.85704741| 0.56210687|
| Lyz1   | -0.1209326| 1.04164161| 0.0331191| 0.85743342| 0.56231993|
| Fbxl21 | 0.03780237| 3.14489174| 0.0330727| 0.85753216| 0.56231993|
| Prss53 | 0.23927845| -1.4968797| 0.03305867| 0.85756203| 0.56231993|
| Amer3  | 0.04213155| 3.42676157| 0.03303014| 0.85762281| 0.56231993|
| Ctns   | 0.04849131| 2.65639179| 0.03301302| 0.85765929| 0.56231993|
| Pex12  | -0.0322793| 4.06742378| 0.03296181| 0.85776845| 0.56232066|
| Rnf180 | 0.05693301| 2.8396008| 0.03295864| 0.85777522| 0.56232066|
| Pla2g12a| 0.04171381| 3.72783429| 0.03291366| 0.8578712| 0.56234594|
| Urh    | -0.1178939| 0.09704359| 0.03271213| 0.85830202| 0.5625907|
| Tbx18  | -0.0370069| 6.20995825| 0.03260417| 0.85853338| 0.5627047|
| Ac01   | 0.03100096| 4.27600672| 0.03257117| 0.85860418| 0.56271345|
| Gm13031| -0.1883668| -0.4832155| 0.03247732| 0.85880573| 0.56274386|
| Rrpb1  | 0.02887223| 6.08677972| 0.03246992| 0.85882163| 0.56274386|
| Mchr1  | -0.0596317| 2.58860554| 0.03246931| 0.85882923| 0.56274386|
| Rnd3   | 0.03524697| 5.26196549| 0.03232557| 0.85913225| 0.56282087|
| 2810459M11| 0.07029868| 1.84804127| 0.0323191| 0.85914619| 0.56282087|
| Grb7   | -0.0880504| 0.847069| 0.03231887| 0.85914669| 0.56282087|
| Galns  | 0.09064602| 0.66042022| 0.03228261| 0.85922484| 0.56282087|
| Lamc2  | 0.04297749| 2.97337274| 0.03228046| 0.85922946| 0.56282087|
| Alg1   | 0.1415119| 0.0254511| 0.03225461| 0.85928521| 0.56282087|
| Lrc5c5 | 0.02872657| 4.49946179| 0.03214557| 0.8595206| 0.56293741|
| Hipk3  | 0.01832855| 7.79073933| 0.03211519| 0.85958625| 0.56294045|
| Kiss1r  | -0.1037612| 0.15055536| 0.03209024| 0.85964019| 0.56294045|
| Mapk1ip1l | -0.0277715| 8.02239861| 0.03178712| 0.86029731| 0.56331344|
| Upk1b  | -0.1055559| 1.27671909| 0.03177448| 0.86032478| 0.56331344|
| Cntd1  | 0.04712404| 2.33775579| 0.03174217| 0.86039502| 0.56331358|
| Nusap1 | -0.0678729| 2.16744972| 0.03172149| 0.86044002| 0.56331358|
| Wapal  | -0.0185263| 7.56975924| 0.03167102| 0.86054984| 0.5633373|
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ehbp1  | -0.0258041 | 6.77901696 | 0.031652 | 0.86059127 | 0.5633373 |
| Rab23  | -0.0252261 | 5.37717903 | 0.03159194 | 0.86072213 | 0.56335009 |
| Tsnaip1| 0.2935653  | -1.2806416 | 0.03159025 | 0.86072583 | 0.56335009 |
| Got1   | 0.02461149 | 8.34719757  | 0.03153427 | 0.86084792 | 0.56339235 |
| Taf7   | 0.03591873 | 3.82423093  | 0.03145093 | 0.8610299 | 0.56347381 |
| Skil   | -0.0206315 | 7.34534605  | 0.03137297 | 0.86120036 | 0.56353457 |
| Cd47   | -0.0282947 | 7.49962198  | 0.03133271 | 0.86128849 | 0.56353457 |
| D10Wsul2e | -0.0254181 | 5.43301154  | 0.03129539 | 0.86137021 | 0.56353457 |
| Mrps17 | 0.04439916 | 4.09485007 | 0.03129526 | 0.8613705 | 0.56353457 |
| Mrps9  | 0.0338206  | 3.54620134  | 0.03127705 | 0.86141041 | 0.56353457 |
| Rhog   | -0.0452272 | 3.23796966  | 0.03123044 | 0.86151258 | 0.56356377 |
| Plod1  | -0.047466  | 3.01885443  | 0.03113534 | 0.8617213 | 0.56357111 |
| Tal1   | 0.12918174 | 2.6914581  | 0.03111685 | 0.86176192 | 0.56357111 |
| Zfp551 | 0.06994839 | 2.48571282  | 0.03109661 | 0.86180639 | 0.56357111 |
| Mndal  | -0.0494289 | 2.99456607  | 0.03109535 | 0.86180916 | 0.56357111 |
| Mum1l1 | 0.09756165 | 1.70224745  | 0.03109431 | 0.86181147 | 0.56357111 |
| Il6st  | 0.02847027 | 7.38933824  | 0.030889   | 0.8622635  | 0.5638202 |
| Talpl  | -0.0340941 | 3.28314003  | 0.03086906 | 0.8623075 | 0.5638202 |
| 2900052N01 | -0.0558325 | 2.81930191  | 0.03079607 | 0.86246862 | 0.56388791 |
| Dtd2   | -0.0449104 | 4.09246295  | 0.03063428 | 0.8628265 | 0.56406779 |
| Elavl2 | 0.02573967 | 6.93896308  | 0.03059059 | 0.86292331 | 0.56406779 |
| Pced1b | -0.0408711 | 3.1020314  | 0.03058662 | 0.86293211 | 0.56406779 |
| AW146154 | -0.0476871 | 3.00440561  | 0.03056769 | 0.86297408 | 0.56406779 |
| Glud1  | 0.01781422 | 8.41518438  | 0.03049133 | 0.86314351 | 0.56406927 |
| Dlgap4 | -0.0217875 | 7.19902997  | 0.03044046 | 0.86325652 | 0.56406927 |
| Tbc1d12 | 0.03603419 | 3.91318309  | 0.03043603 | 0.86326637 | 0.56406927 |
| Edil3  | 0.03199659 | 6.55862889  | 0.03040917 | 0.86332607 | 0.56406927 |
| Fbln1  | 0.05164858 | 4.89785489  | 0.03039055 | 0.86336748 | 0.56406927 |
| Tmed10 | -0.0228437 | 6.82479277  | 0.03038828 | 0.86337253 | 0.56406927 |
| Mrps9  | -0.0386758 | 3.40868777  | 0.03038517 | 0.86337944 | 0.56406927 |
| Mrps17 | 0.03633123 | 4.15799816  | 0.03029372 | 0.86358303 | 0.56412257 |
| Furin  | 0.05162786 | 2.94407601  | 0.0302625  | 0.8636526  | 0.56412257 |
| Gas2l2 | 0.19162836 | -0.998051   | 0.03025724 | 0.86366433 | 0.56412257 |
| Dnajc2 | 0.05687415 | 2.95692566  | 0.03021446 | 0.86375972 | 0.56412257 |
| 1810021B22 | -0.1102306 | 0.54550243  | 0.03020125 | 0.86378918 | 0.56412257 |
| Rab3l1 | -0.0417856 | 4.12135723  | 0.03019346 | 0.86380657 | 0.56412257 |
| Avil   | 0.21390037 | -1.4523535  | 0.03013427 | 0.86393873 | 0.56413661 |
| Sfxn5  | -0.033192 | 4.82337831  | 0.03013224 | 0.86394326 | 0.56413661 |
| Ppm1m  | 0.04146888 | 3.80344664  | 0.03002242 | 0.86418884 | 0.5642271 |
| Cdk5   | 0.03323013 | 4.20561656  | 0.03001875 | 0.86419704 | 0.5642271 |
| Greb1  | -0.1018518 | 0.39296859  | 0.02989813 | 0.86446732 | 0.56436595 |
| Nebl   | -0.0250375 | 6.61374962  | 0.02985849 | 0.86455624 | 0.56438638 |
| Nup35  | -0.0390588 | 3.28593471  | 0.02978838 | 0.86471371 | 0.56445156 |
| Gene      | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|-----------|---------|---------|---------|---------|---------|---------|
| Plld      | -0.0322098 | 7.04304457 | 0.02971727 | 0.8648736 | 0.56451831 |
| Pltp      | -0.05182 | 4.01039227 | 0.02960342 | 0.86513003 | 0.56461576 |
| Frmd3     | 0.05817396 | 2.67448322 | 0.02956911 | 0.86520741 | 0.56461576 |
| Purb      | 0.02029701 | 9.71124071 | 0.02956459 | 0.86521761 | 0.56461576 |
| Phkd1l1   | 0.15936218 | -0.6430587 | 0.02951827 | 0.86532214 | 0.56461576 |
| Tiam2     | 0.03386511 | 4.92606776 | 0.02951166 | 0.86533706 | 0.56461576 |
| Slc39a9   | 0.02675421 | 4.89213791 | 0.02945794 | 0.86545843 | 0.56461576 |
| Frs2      | 0.01913597 | 7.4298957 | 0.02944524 | 0.86548713 | 0.56461576 |
| Mir344b   | 0.22090322 | -2.0874716 | 0.02942023 | 0.86554369 | 0.56461576 |
| Smarcad1  | 0.03262167 | 5.2613754 | 0.02939768 | 0.8655947 | 0.56461576 |
| Lamb2     | 0.05346435 | 4.32199266 | 0.02939168 | 0.86560826 | 0.56461576 |
| Top1      | -0.0236979 | 8.05108416 | 0.0293389 | 0.86572776 | 0.56461576 |
| Tmem125   | 0.09124486 | 6.65984188 | 0.02930369 | 0.86580753 | 0.56461576 |
| Mecp2     | -0.0218567 | 8.93917506 | 0.02927346 | 0.86587606 | 0.56461576 |
| Sntg1     | 0.03070631 | 5.58941701 | 0.02927245 | 0.86587834 | 0.56461576 |
| Inc1      | -0.0687175 | 0.79195085 | 0.02922639 | 0.86598283 | 0.56461576 |
| Ctnn      | 0.02412963 | 5.83338286 | 0.02918913 | 0.86606742 | 0.56461576 |
| Olf316    | 0.1931173 | -0.6026175 | 0.02917501 | 0.8660995 | 0.56461576 |
| Slc35a1   | 0.03742889 | 5.25560159 | 0.02915791 | 0.86613834 | 0.56461576 |
| Synj2 bp  | 0.01958639 | 7.03416657 | 0.02914262 | 0.86617307 | 0.56461576 |
| Dcrlc1c   | 0.04349349 | 5.24539351 | 0.02914145 | 0.86617573 | 0.56461576 |
| AK129341  | 0.04212167 | 5.21366025 | 0.02892279 | 0.86667367 | 0.56489252 |
| Tsc22d2   | 0.02035764 | 6.84533582 | 0.0289044 | 0.86671564 | 0.56489252 |
| Gnptg     | -0.0289863 | 4.63941865 | 0.02884316 | 0.86685549 | 0.56490808 |
| Planp     | 0.02385429 | 6.45296759 | 0.0288117 | 0.8669274 | 0.56490808 |
| Secisbp2l | 0.02060095 | 7.76977179 | 0.02879458 | 0.86696655 | 0.56490808 |
| Ube2t     | -0.1805956 | -1.0713827 | 0.02878863 | 0.86698015 | 0.56490808 |
| Tbc1d17   | -0.055702 | 2.57286383 | 0.02875372 | 0.86706002 | 0.56490808 |
| Pde1a     | 0.01685023 | 9.4446545 | 0.02869437 | 0.86719592 | 0.56490808 |
| Abhd17b   | -0.0283403 | 5.76779969 | 0.02866734 | 0.86725786 | 0.56490808 |
| Sybu      | 0.03036157 | 5.28269704 | 0.02865858 | 0.86727794 | 0.56490808 |
| Wnt9b     | 0.24594486 | -1.9055539 | 0.02862991 | 0.86734367 | 0.56490808 |
| Trp53rk   | -0.0864359 | 2.02455285 | 0.02862351 | 0.86735835 | 0.56490808 |
| Dll4      | -0.1917394 | -1.5188964 | 0.02860935 | 0.86739084 | 0.56490808 |
| Htr1b     | 0.05958305 | 1.29237253 | 0.02856154 | 0.8675006 | 0.56490808 |
| Zfp597    | 0.02416452 | 4.89162682 | 0.02854653 | 0.86753507 | 0.56490808 |
| Mus81     | -0.0493022 | 2.15460591 | 0.02854137 | 0.86754691 | 0.56490808 |
| Htr6      | -0.1866734 | -1.4043342 | 0.02847082 | 0.86770909 | 0.56493509 |
| Cdc42ep1  | -0.0811967 | 2.57236804 | 0.02845805 | 0.86773848 | 0.56493509 |
| Zfp579    | 0.0525077 | 1.47293401 | 0.02841771 | 0.86783131 | 0.56493509 |
| Il2rg     | -0.1332205 | 0.43366703 | 0.02840354 | 0.86786394 | 0.56493509 |
| Nat8      | -0.1226079 | 0.23578524 | 0.02839798 | 0.86787676 | 0.56493509 |
| Pyhin1    | -0.1007477 | 1.688976 | 0.02833736 | 0.8680159 | 0.56498811 |
| Gene    | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|---------|--------|--------|--------|--------|--------|--------|
| Kcnmb4  | -0.0303834 | 3.94159509 | 0.0280039 | 0.86879583 | 0.565409 |
| Atplb1  | -0.0183564 | 10.1417314 | 0.02795092 | 0.86891066 | 0.565409 |
| A730056A06 | 0.06990918 | 1.59917993 | 0.02788635 | 0.86906069 | 0.565409 |
| Sec62   | 0.02157126 | 7.55522414 | 0.02787514 | 0.86908676 | 0.565409 |
| Merox1  | 0.15296657 | -1.373733  | 0.02787389 | 0.86908967 | 0.565409 |
| Htra4   | -0.0516221 | 3.17792456 | 0.02786598 | 0.86910805 | 0.565409 |
| Ace2    | 0.24882333 | -0.716021  | 0.02784997 | 0.86914531 | 0.565409 |
| 290079G21 | 0.06020891 | 1.16559202 | 0.02782205 | 0.86921027 | 0.565409 |
| Speer4a | -0.0897986 | 0.36362606 | 0.02780752 | 0.86924409 | 0.565409 |
| Rtn4rl1 | 0.02172913 | 6.19990827 | 0.0277763  | 0.8693168  | 0.565409 |
| Cwf1911 | -0.0429815 | 3.90492963 | 0.02777238 | 0.86932594 | 0.565409 |
| Rbm45   | 0.03522324 | 3.49260112 | 0.02775983 | 0.86935518 | 0.565409 |
| Tmem39a | 0.02769462 | 4.96808589 | 0.02772504 | 0.86943628 | 0.56542419 |
| Pank3   | -0.021154  | 7.493322   | 0.02766205 | 0.86958326 | 0.56542662 |
| Sema3d  | 0.04880193 | 6.49635754 | 0.02765874 | 0.86959098 | 0.56542662 |
| Rac3    | -0.1505494 | -0.9383691 | 0.02764923 | 0.86961319 | 0.56542662 |
| Igfbp5  | -0.0372584 | 8.64917915 | 0.02760248 | 0.8697224  | 0.5654601 |
| 9030624J02F | 0.02062254 | 5.22420034 | 0.0275255  | 0.86990244 | 0.56553962 |
| Gmcl1   | 0.02772621 | 4.31269392 | 0.02744711 | 0.87008606 | 0.56562145 |
| Trib1   | 0.02579134 | 5.66745826 | 0.0273993  | 0.87019817 | 0.56565679 |
| Mocs1   | 0.04672203 | 4.31887356 | 0.0273166  | 0.87039235 | 0.56570923 |
| Mfap5   | 0.0952125  | 2.15899869 | 0.02727072 | 0.87050021 | 0.56570923 |
| Zfp322a | 0.02284565 | 6.03840484 | 0.02721732 | 0.87062584 | 0.56570923 |
| Slc39a8 | 0.06104568 | 2.78541867 | 0.02721097 | 0.8706408  | 0.56570923 |
| Pipox   | 0.08256492 | 0.57711512 | 0.02717926 | 0.87071549 | 0.56570923 |
| A630007B06 | 0.02316673 | 7.27132585 | 0.02716783 | 0.8707424  | 0.56570923 |
| Anxa9   | -0.1236233 | -0.5916334 | 0.02716747 | 0.87074326 | 0.56570923 |
| Lefty1  | 0.06795741 | 1.93851202 | 0.02715117 | 0.87078167 | 0.56570923 |
| Calkc1o | -0.019259  | 7.47821036 | 0.02714398 | 0.87079862 | 0.56570923 |
| Lmf2    | 0.04494109 | 2.46143487 | 0.02711219 | 0.87087359 | 0.56572042 |
| Ociad1  | -0.0190857 | 7.1434542  | 0.02706239 | 0.87099112 | 0.56575879 |
| Mrps10  | 0.03951069 | 2.80224304 | 0.02703823 | 0.87104817 | 0.56575879 |
| Perm1   | 0.13897901 | -0.4116374 | 0.02695773 | 0.87123847 | 0.56584487 |
| Alg14   | -0.0434939 | 4.58603862 | 0.02688122 | 0.87141961 | 0.56588888 |
| Agps    | 0.01956499 | 7.19752054 | 0.02687273 | 0.87143971 | 0.56588888 |
| C130021I20R | 0.09586196 | 1.23443208 | 0.02679791 | 0.87161714 | 0.56588888 |
| Atp13a5 | 0.03184328 | 4.94737896 | 0.02679542 | 0.87162305 | 0.56588888 |
| Nxe2p   | 0.08443516 | 1.13167238 | 0.02679248 | 0.87163002 | 0.56588888 |
| Appbp2  | 0.02577728 | 5.28876882 | 0.02678286 | 0.87165286 | 0.56588888 |
| LOC10050471 | -0.1336618 | -0.317366  | 0.02667301 | 0.8719139  | 0.56602083 |
| Mex3b   | -0.0378121 | 3.37780557 | 0.02661557 | 0.87205059 | 0.56607205 |
| Zfp641  | -0.0543077 | 3.02665455 | 0.02656293 | 0.87217601 | 0.56611524 |
| Efnb3   | 0.03426971 | 4.91469848 | 0.02653585 | 0.87224058 | 0.56611524 |
| Gene     | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| Timp1    | -0.0939463 | 1.52982041 | 0.02647919 | 0.8723758 | 0.56611524 |
| Ubqln2   | -0.0239278 | 7.64015162 | 0.02636645 | 0.87264528 | 0.56611524 |
| Rab3d    | -0.0339276 | 3.19566862 | 0.02636464 | 0.87264961 | 0.56611524 |
| Dleu2    | -0.053621 | 2.42882056 | 0.02633951 | 0.87270975 | 0.56611524 |
| Prkcz    | -0.0217858 | 6.3385358 | 0.02633503 | 0.87272049 | 0.56611524 |
| LOC1005034 | -0.1378073 | -1.3524867 | 0.02631475 | 0.87276906 | 0.56611524 |
| Amotl2   | 0.04816631 | 3.80934103 | 0.02631009 | 0.87278022 | 0.56611524 |
| Fam83b   | -0.133181 | -0.6156451 | 0.02630744 | 0.87278655 | 0.56611524 |
| Fibin    | 0.04536614 | 4.43120011 | 0.02630546 | 0.87279131 | 0.56611524 |
| Atp1a2   | 0.03636412 | 11.2666227 | 0.02629739 | 0.87281065 | 0.56611524 |
| Mlixpl   | 0.07654692 | 0.95267483 | 0.0262573 | 0.87290673 | 0.56614007 |
| Xlr3c    | -0.1616904 | -1.4935788 | 0.02622232 | 0.87299065 | 0.56615701 |
| Zfp771   | -0.0908537 | 0.69994245 | 0.02619098 | 0.87319056 | 0.56621333 |
| Ptpn14   | -0.0379386 | 6.35989005 | 0.02613802 | 0.8731931 | 0.56621333 |
| Dus4l    | -0.0488987 | 2.58436004 | 0.02607727 | 0.87333922 | 0.56627059 |
| Shc4     | 0.04373873 | 2.54008987 | 0.02605145 | 0.87340137 | 0.5662734 |
| Sspn     | 0.04635506 | 4.45629155 | 0.02601729 | 0.87348365 | 0.56628591 |
| Mapk9    | 0.01954225 | 8.50240878 | 0.02599545 | 0.87353628 | 0.56628591 |
| Gm16845  | 0.11983099 | 0.69117642 | 0.02593307 | 0.87368674 | 0.56634596 |
| Mmaa     | 0.04189205 | 3.75448196 | 0.02590192 | 0.87376193 | 0.56635723 |
| 1110019D14 | 0.04307247 | 2.68303163 | 0.02586411 | 0.87385326 | 0.56637895 |
| Tac2     | -0.0732355 | 1.01105244 | 0.02568506 | 0.87428674 | 0.56656281 |
| Rprm     | -0.0349184 | 3.97565688 | 0.02566835 | 0.87412728 | 0.56656281 |
| Bin2     | 0.04748512 | 3.02808699 | 0.02564586 | 0.87438185 | 0.56656281 |
| D17Wsu104c | 0.05943187 | 2.07184343 | 0.02564388 | 0.87438665 | 0.56656281 |
| Gbg1t1   | -0.0970432 | 0.52653388 | 0.02562762 | 0.87442614 | 0.56656281 |
| Gpr116   | -0.0595651 | 4.84174366 | 0.02558954 | 0.87451863 | 0.56658526 |
| Cyb5d1   | -0.0632008 | 1.39283836 | 0.02550626 | 0.87472116 | 0.56667899 |
| N28178   | 0.02946501 | 7.04077347 | 0.02539821 | 0.87498444 | 0.56678798 |
| Il11ra1  | -0.0264968 | 4.34286303 | 0.0253779 | 0.87503399 | 0.56678798 |
| Klr9     | -0.1891697 | -0.9669091 | 0.02535626 | 0.87508682 | 0.56678798 |
| Ubxn8    | -0.0352411 | 4.33700244 | 0.02533206 | 0.87514591 | 0.56678798 |
| Git1     | -0.0229488 | 6.87270412 | 0.02531863 | 0.87517871 | 0.56678798 |
| Klhdc8a  | -0.0341841 | 3.8166038 | 0.02529199 | 0.87524382 | 0.56679268 |
| Dld      | -0.0191022 | 7.47831163 | 0.02523585 | 0.87538115 | 0.56684413 |
| Mrpl15   | -0.0438898 | 4.9439857 | 0.02517738 | 0.87552434 | 0.56689547 |
| Rnase4   | -0.0421004 | 5.15514776 | 0.02515622 | 0.87557617 | 0.56689547 |
| Sncaip   | -0.0381334 | 5.65640111 | 0.02511613 | 0.8756745 | 0.56692166 |
| Lrrc14   | -0.0417799 | 2.72830869 | 0.02508259 | 0.8757568 | 0.56693346 |
| Zfp691   | -0.0581414 | 2.53282717 | 0.02506155 | 0.87580848 | 0.56693346 |
| Gspt2    | 0.03032906 | 4.58635054 | 0.02502783 | 0.87589132 | 0.56694947 |
| Zdhhc24  | 0.02953918 | 5.97825576 | 0.02500438 | 0.87594898 | 0.56694947 |
| Rnd2     | 0.06744969 | 1.72906481 | 0.0249299 | 0.87613226 | 0.56703063 |
| Gene       | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 | Value15 | Value16 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| Prkd2      | -0.0481405 | 2.88515912 | 0.02477736 | 0.87650851 | 0.56719919 |
| Tnfrsf4    | 0.24203774 | -2.2440682 | 0.02474814 | 0.87658071 | 0.56720844 |
| Taf1c      | 0.0723101 | 1.20429894 | 0.02467531 | 0.87676088 | 0.56728342 |
| Scamp5     | -0.0264079 | 6.44709612 | 0.0246545 | 0.87681242 | 0.56728342 |
| Gm6548     | -0.0446573 | 3.51256874 | 0.02459326 | 0.87696419 | 0.56729581 |
| Ift46      | 0.03668341 | 4.57608285 | 0.02454476 | 0.87708454 | 0.56729581 |
| Abhd15     | 0.15813133 | -1.3237041 | 0.0245415 | 0.87709265 | 0.56729581 |
| Mkn1       | 0.02005282 | 6.7341484 | 0.02453803 | 0.87710125 | 0.56729581 |
| Eea1       | -0.0204949 | 7.47743477 | 0.02453002 | 0.87712114 | 0.56729581 |
| Dclk1      | 0.02763816 | 10.5375499 | 0.02450081 | 0.87719371 | 0.56730529 |
| Calb2      | 0.05925341 | 1.07864787 | 0.02442638 | 0.87737878 | 0.56738752 |
| Fam203a    | -0.0524578 | 2.59822023 | 0.02428962 | 0.87771962 | 0.56751205 |
| Pde11a     | 0.10171449 | -0.3706956 | 0.02428937 | 0.87772025 | 0.56751205 |
| Pydc4      | 0.18449852 | -1.4334036 | 0.02427938 | 0.87774517 | 0.56751205 |
| Appl1      | 0.02304538 | 8.34531989 | 0.02424604 | 0.87782845 | 0.56752844 |
| Hs3st3a1   | 0.04327842 | 4.59110995 | 0.02418238 | 0.87798757 | 0.56759385 |
| Napepend   | -0.0289463 | 6.43308313 | 0.02411875 | 0.87814684 | 0.56762964 |
| Fpgs       | -0.0804762 | 5.43726243 | 0.02409358 | 0.87834534 | 0.56762964 |
| Kcna3      | 0.06550378 | 1.38186323 | 0.024028 | 0.87837438 | 0.56762964 |
| Gm14005    | -0.0955293 | 0.45134043 | 0.02401877 | 0.87839755 | 0.56762964 |
| Arl6ip1    | -0.0172392 | 7.00630343 | 0.02399819 | 0.87844922 | 0.56762964 |
| Xlr3a      | -0.0854899 | 0.44850432 | 0.02399642 | 0.87845368 | 0.56762964 |
| Rnf43      | -0.0468862 | 3.23811628 | 0.02397801 | 0.8784999 | 0.56762964 |
| Scube1     | 0.02241766 | 5.95682339 | 0.02394089 | 0.87859321 | 0.56764469 |
| Pln        | 0.09798843 | 6.1041831 | 0.023897 | 0.87870363 | 0.56764469 |
| Sh2d2a     | -0.0691307 | 1.19444342 | 0.02385565 | 0.87880774 | 0.56762964 |
| Mpeg1      | 0.05410799 | 2.86253962 | 0.02381967 | 0.87889839 | 0.56764469 |
| Asap2      | 0.02565791 | 6.25243567 | 0.0238174 | 0.87890412 | 0.56764469 |
| Rab14      | -0.0171734 | 7.96281547 | 0.02381497 | 0.87891026 | 0.56764469 |
| Pex13      | 0.02085139 | 5.35870662 | 0.02380168 | 0.87894376 | 0.56764469 |
| Ctsz       | 0.03950103 | 3.99981656 | 0.02378199 | 0.87899343 | 0.56764469 |
| Znht2      | -0.0384741 | 3.10195257 | 0.02375078 | 0.8790722 | 0.56765814 |
| Rabac1     | -0.0540047 | 3.07237434 | 0.0237078 | 0.87918075 | 0.56769081 |
| Epb4.11I5  | 0.02611421 | 4.6767128 | 0.02357681 | 0.87951226 | 0.56782517 |
| Fam186b    | 0.17934439 | -0.8546847 | 0.02355635 | 0.8795641 | 0.56782517 |
| Pemt       | 0.1434429 | -0.981126 | 0.02354124 | 0.87960243 | 0.56782517 |
| Stambp     | 0.02529895 | 4.3459198 | 0.02349263 | 0.87972576 | 0.56782517 |
| Chst3      | -0.1210391 | 0.66964206 | 0.02344783 | 0.87983957 | 0.56782517 |
| Calr4      | 0.18438707 | -1.2051204 | 0.02343058 | 0.8798834 | 0.56782517 |
| Ankrd34b   | 0.03596665 | 4.5032415 | 0.023426 | 0.87989505 | 0.56782517 |
| Pepd       | -0.0314844 | 3.62132166 | 0.02339611 | 0.87997109 | 0.56782517 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   |
|--------|----------|----------|----------|----------|----------|----------|
| Mblac2 | 0.02843264 | 6.02592494 | 0.0233762 | 0.88002174 | 0.56782517 |
| 2210404009 | -0.0489168 | 2.13870663 | 0.02333554 | 0.88012528 | 0.56782517 |
| Rgma   | 0.03778499 | 4.29821178 | 0.02334444 | 0.88012808 | 0.56782517 |
| Ercc2  | -0.0609127 | 1.24485289 | 0.02332492 | 0.88015235 | 0.56782517 |
| Hmgb1-rs17 | 0.06746336 | 0.38820929 | 0.0233268 | 0.8801555 | 0.56782517 |
| Pdzk1lp1| -0.079876 | 1.63263449 | 0.02327885 | 0.8802698 | 0.56782517 |
| Ct6ps  | -0.0323445 | 3.98879188 | 0.0232706 | 0.88029085 | 0.56782517 |
| Cited4 | -0.0653017 | 0.97690506 | 0.02322239 | 0.8804139 | 0.56782517 |
| Pgrmc2 | -0.0219585 | 5.49575319 | 0.02321615 | 0.88042984 | 0.56782517 |
| Dbt    | 0.02587511 | 5.64794495 | 0.0232152 | 0.88043227 | 0.56782517 |
| Plcg2  | -0.0455524 | 1.88534038 | 0.02313684 | 0.88063261 | 0.56782599 |
| Rars   | 0.02248566 | 5.45583611 | 0.02312854 | 0.88065384 | 0.56782599 |
| Dus2   | 0.04460866 | 2.42156585 | 0.02311453 | 0.8806897 | 0.56782599 |
| Wbscr17| -0.0327921 | 3.82824717 | 0.02310095 | 0.88072448 | 0.56782599 |
| Foxk1  | 0.01992373 | 7.16862433 | 0.02309529 | 0.88073897 | 0.56782599 |
| Tpnc1  | -0.0399249 | 5.97215689 | 0.02307874 | 0.88078136 | 0.56782599 |
| Slc34a2 | -0.0856479 | 0.83213554 | 0.02301885 | 0.88093491 | 0.56785858 |
| Nr2c2  | -0.015419 | 7.33174205 | 0.0230138 | 0.88094786 | 0.56785858 |
| Svo1   | 0.12757685 | -0.26332625 | 0.02294895 | 0.88111438 | 0.56787892 |
| Cd8    | -0.0188147 | 5.70955149 | 0.02293394 | 0.88115295 | 0.56787892 |
| Gjb1   | 0.12783482 | -0.6787146 | 0.02293347 | 0.88115417 | 0.56787892 |
| Mef2c  | 0.02437051 | 10.0758779 | 0.02291124 | 0.88121131 | 0.56787892 |
| Ifih1  | 0.02438538 | 5.32452961 | 0.02283387 | 0.88141045 | 0.56796989 |
| Gm3219 | 0.05976164 | 0.84330458 | 0.02280857 | 0.88147566 | 0.56797454 |
| Zfp143 | 0.03711072 | 3.39032296 | 0.02273048 | 0.88167711 | 0.56806155 |
| 4930523C07l1 | 0.03815626 | 3.74449244 | 0.02271129 | 0.88172668 | 0.56806155 |
| Chp2   | 0.06521527 | 0.84874003 | 0.02265111 | 0.88188226 | 0.56812442 |
| Pcdhb14| 0.040982 | 3.02501865 | 0.02230013 | 0.88279374 | 0.56867421 |
| Prkca1 | -0.0193757 | 5.69360873 | 0.02224146 | 0.88294683 | 0.56873543 |
| Tbc1d9b| 0.01862741 | 6.59204366 | 0.02218747 | 0.88308789 | 0.56878831 |
| Cc8d9  | 0.03443789 | 2.73401385 | 0.02215904 | 0.88316225 | 0.56878831 |
| Cyth4  | 0.05278061 | 1.85872667 | 0.02214341 | 0.88320314 | 0.56878831 |
| Aca1d  | 0.02908141 | 5.29580048 | 0.02211826 | 0.88326898 | 0.56879332 |
| Wtip   | 0.053395 | 2.38718565 | 0.02198914 | 0.88360756 | 0.56897395 |
| Kcnq3  | -0.0220879 | 5.53464675 | 0.02196068 | 0.88368235 | 0.5689847 |
| Ppp1r21| -0.0188418 | 5.54478482 | 0.02190941 | 0.88381716 | 0.56900165 |
| Fat2   | -0.0524864 | 2.77609445 | 0.0218876 | 0.88387456 | 0.56900165 |
| Zfp106 | 0.01500554 | 9.16699433 | 0.02188208 | 0.8838891 | 0.56900165 |
| Rpap2  | -0.0219412 | 4.70556522 | 0.02184013 | 0.88399958 | 0.56900165 |
| Nth1   | -0.0934255 | 0.3650133 | 0.02183098 | 0.88402371 | 0.56900165 |
| Wisp2  | -0.1801243 | -1.02055 | 0.02181828 | 0.8840572 | 0.56900165 |
| Ppp1r3d| 0.06969408 | 1.13591682 | 0.02175936 | 0.88421266 | 0.56905418 |
| Id2    | -0.1029011 | -0.0722269 | 0.02172151 | 0.88431264 | 0.56905418 |
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cdkl4 | 0.0295013 | 4.17292672 | 0.02170761 | 0.8843494 | 0.56905418 |
| Arhgef12 | -0.0148481 | 9.52684002 | 0.02168427 | 0.88441111 | 0.56905418 |
| Yif1b | -0.0533586 | 1.7760898 | 0.02167739 | 0.88442929 | 0.56905418 |
| Prkag2 | -0.0214332 | 6.12234664 | 0.02161096 | 0.88460518 | 0.56912997 |
| Esam | 0.07959381 | 1.35258999 | 0.02155033 | 0.88476595 | 0.56919601 |
| Jmjd7 | 0.11501378 | -0.6699958 | 0.02148981 | 0.88492667 | 0.56925813 |
| Blvrb | 0.06155069 | 1.2397928 | 0.02144055 | 0.88505764 | 0.56925813 |
| Gm15545 | 0.12738288 | -0.7285073 | 0.02142772 | 0.88509177 | 0.56925813 |
| Mir9-2 | 0.17483719 | -0.9707204 | 0.02140538 | 0.88515125 | 0.56925813 |
| Fcrls | -0.069363 | 1.54344306 | 0.02139296 | 0.88518433 | 0.56925813 |
| Gm3716 | 0.12408331 | -0.725553 | 0.02136529 | 0.88525803 | 0.56925813 |
| Asrgl1 | -0.0266906 | 5.83523342 | 0.02135584 | 0.88528322 | 0.56925813 |
| Ndufaf6 | -0.0513709 | 1.59740847 | 0.02133926 | 0.88532743 | 0.56925813 |
| Cd44 | -0.1760705 | -0.6517929 | 0.02125185 | 0.8855608 | 0.5693399 |
| Crabp1 | 0.25624533 | -1.4468871 | 0.02124809 | 0.88557084 | 0.5693399 |
| Gdf10 | 0.06708303 | 2.35877311 | 0.02117885 | 0.88575607 | 0.56940361 |
| Cyp3a13 | 0.13166958 | -1.1165901 | 0.0211557 | 0.88581806 | 0.56940361 |
| Rsph9 | 0.0673282 | 2.03446966 | 0.02114589 | 0.88584433 | 0.56940361 |
| Hgs | 0.03108194 | 4.12396268 | 0.02110876 | 0.88594386 | 0.56942434 |
| Blcap | 0.03014868 | 5.14326123 | 0.0210905 | 0.88599285 | 0.56942434 |
| Ddx49 | 0.07086215 | 0.76089997 | 0.02100443 | 0.88622401 | 0.56953554 |
| Ddx17 | -0.0253454 | 8.05832796 | 0.02098168 | 0.88628519 | 0.56953749 |
| Mettl11b | -0.2457835 | -2.3411546 | 0.02092682 | 0.88643285 | 0.56958268 |
| Tmem63b | -0.025127 | 5.59252783 | 0.02090964 | 0.88647914 | 0.56958268 |
| Zfp41 | -0.0418572 | 1.96882306 | 0.02089079 | 0.88652996 | 0.56958268 |
| Cnpy3 | -0.0361328 | 3.44903708 | 0.02086085 | 0.88661069 | 0.56959719 |
| Btg2 | -0.0450982 | 3.76373562 | 0.02082756 | 0.88670056 | 0.56960412 |
| Hmga2 | -0.0275048 | 3.850615 | 0.02081377 | 0.88673779 | 0.56960412 |
| Tnfsf10 | -0.0378313 | 3.01706064 | 0.02064476 | 0.88719526 | 0.56984703 |
| Satb1 | -0.024814 | 7.71689747 | 0.02058902 | 0.88734656 | 0.56984703 |
| Dph1 | -0.1468709 | -1.3555422 | 0.02054384 | 0.88746934 | 0.56984703 |
| Matr3 | 0.02162581 | 8.16150937 | 0.02052279 | 0.88752658 | 0.56984703 |
| Uqcc1 | 0.03129167 | 3.87512325 | 0.02050828 | 0.88756607 | 0.56984703 |
| 4930515G01 | 0.1490875 | -0.7787779 | 0.02049667 | 0.88759767 | 0.56984703 |
| Eif5b | 0.02183092 | 9.35457205 | 0.02047251 | 0.88766345 | 0.56984703 |
| Ccdc69 | 0.04327325 | 2.06926137 | 0.02045705 | 0.88770559 | 0.56984703 |
| Me1 | 0.01828197 | 5.34578068 | 0.02039517 | 0.88787435 | 0.56984703 |
| Ralgpas2 | -0.017832 | 6.33811271 | 0.02039496 | 0.88787588 | 0.56984703 |
| Cd164 | -0.0334346 | 7.83696566 | 0.0203806 | 0.88791411 | 0.56984703 |
| Letm2 | -0.0339824 | 3.25028569 | 0.02037905 | 0.88791836 | 0.56984703 |
| Klb1b | -0.1365971 | 0.72419676 | 0.02037542 | 0.88792826 | 0.56984703 |
| Cyp2t4 | 0.11546507 | -0.8172949 | 0.02037065 | 0.8879413 | 0.56984703 |
| Uros | -0.0313839 | 3.53309665 | 0.02034181 | 0.88802007 | 0.56984703 |
| Gene       | Value1    | Value2    | Value3    | Value4    | Value5    | Value6    | Value7    | Value8    |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Wdr45      | -0.0272479| 4.46017267| 0.02033206| 0.88804673| 0.56984703|
| Nme6       | 0.04966903| 1.77490388| 0.02022973| 0.88832680| 0.5699894 |
| Rdh5       | -0.1561706| -1.2298068| 0.02013939| 0.88857467| 0.57003282|
| Lgals1     | 0.05059561| 4.62330975| 0.02013719| 0.88858072| 0.57003282|
| Dram1      | -0.0775758| 0.62220117| 0.02010465| 0.88867016| 0.57003282|
| Hsp90ab1   | 0.01695498| 10.3381856| 0.02010278| 0.88867529| 0.57003282|
| Nnt        | 0.02002475| 5.08269873| 0.02009909| 0.88868544| 0.57003282|
| Pdgfra     | 0.02542374| 5.49716989| 0.02000555| 0.88894296| 0.57013288|
| 6430562O15 | -0.2050014| -1.7198949| 0.02000015| 0.88895784| 0.57013288|
| C230037L18f| -0.0681581| 1.60175458| 0.01993519| 0.88913707| 0.57021049|
| Susd5      | 0.04889107| 2.31888443| 0.0198796 | 0.88929068| 0.57025108|
| Slc2a6     | 0.07223629| 1.04842691| 0.01986291| 0.88933682| 0.57025108|
| Sntb2      | -0.0210283| 5.67243718| 0.01984911| 0.88937501| 0.57025108|
| Elavl4     | 0.01980528| 6.90619641| 0.01978872| 0.88954226| 0.57032099|
| Tmem200a   | -0.0404075| 3.68035073| 0.01971225| 0.88975443| 0.57038154|
| Csnk2a1    | -0.0157058| 6.99510857| 0.01970171| 0.8897837 | 0.57038154|
| Gm5795     | 0.19422282| -2.0561598| 0.01969174| 0.88981139| 0.57038154|
| Zeb3b      | -0.0213591| 6.09056482| 0.01965794| 0.88990537| 0.57040445|
| Cenpe      | -0.0416592| 2.89436466| 0.01960938| 0.89004048| 0.57041703|
| G3bp2      | 0.01952582| 9.47815298| 0.01960903| 0.89004146| 0.57041703|
| 4932441J04f| 0.11999074| -0.8893644| 0.01948875| 0.89037691| 0.57059468|
| Rrp1b      | -0.0277242| 3.45718733| 0.01946441| 0.89044492| 0.57060093|
| Anky2      | 0.01586284| 6.26991117| 0.01943367| 0.8905309 | 0.5706187 |
| Vps36      | 0.02873985| 3.86772111| 0.0193442 | 0.89078145| 0.57071088|
| Gm16973    | 0.03583311| 2.88073708| 0.0193407 | 0.89079128| 0.57071088|
| Setbp1     | -0.0169941| 6.75198855| 0.01926007| 0.89101763| 0.57078671|
| Csad       | -0.02563932| 4.22252035| 0.01920869| 0.89116211| 0.57078671|
| Shcbp1     | -0.1238259| -0.5415224| 0.01919696| 0.89119514| 0.57078671|
| Zcchc18    | -0.0192292| 7.20061704| 0.0191965 | 0.89119643| 0.57078671|
| Dennd2a    | -0.0261552| 4.23267622| 0.01918638| 0.89122492| 0.57078671|
| Cplx3      | 0.0548821 | 1.32700046| 0.01917418| 0.89125928| 0.57078671|
| Fbzo46     | 0.04063695| 1.66258558| 0.0191443 | 0.89134348| 0.57080332|
| Fuca2      | 0.02143761| 4.54226025| 0.01910646| 0.89145018| 0.57080429|
| Elp2       | 0.024116 | 5.93591872| 0.01910243| 0.89146154| 0.57080429|
| Wsb2       | 0.01469286| 7.72693333| 0.01906053| 0.89157985| 0.57080911|
| Glb1       | -0.0405054| 3.05622481| 0.01901339| 0.8917313 | 0.57080911|
| Tmed4      | 0.030099 | 5.53251403| 0.01896833| 0.89184066| 0.57080911|
| Cpb2       | 0.19767722| -1.7620521| 0.01896793| 0.89184179| 0.57080911|
| Gm15760    | -0.048175| 2.13793902| 0.01896086| 0.89186183| 0.57080911|
| B4galnt4   | 0.02947753| 4.72188672| 0.0189575 | 0.89187136| 0.57080911|
| Pld4       | 0.085927 | -0.3204414| 0.01894425| 0.89190888| 0.57080911|
| Gorasp1    | 0.03404814| 3.03344982| 0.01893495| 0.89193525| 0.57080911|
| Foxp2      | -0.0238696| 7.30765241| 0.01887675| 0.89210035| 0.57087747|
| Gene   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Bclaf1 | 0.01426153 | 9.51920161 | 0.01879173 | 0.89234201 | 0.57098042 |
| Egr3   | -0.0221315 | 7.83055763 | 0.01877916 | 0.89237781 | 0.57098042 |
| 9430020K011 | 0.01514778 | 8.95856324 | 0.0187329 | 0.89250957 | 0.57102742 |
| Nars   | -0.015392 | 7.85975066 | 0.01869421 | 0.89261992 | 0.57103941 |
| Tmem234 | 0.02527991 | 4.73707194 | 0.01868545 | 0.89264489 | 0.57103941 |
| Efn2   | -0.0143811 | 6.4669456 | 0.01864559 | 0.89275873 | 0.57107373 |
| Ldoc1l | -0.022011 | 4.91591851 | 0.01862584 | 0.89281515 | 0.57107373 |
| B230208H11 | 0.13404708 | -0.0817268 | 0.01855392 | 0.89302096 | 0.57116807 |
| Scamp1 | -0.0157574 | 7.8724213 | 0.018505 | 0.89316118 | 0.57118037 |
| Elov1  | 0.04939618 | 3.3782113 | 0.01849041 | 0.89320304 | 0.57118037 |
| Gn13   | 0.02504029 | 4.71939905 | 0.0184862 | 0.89321512 | 0.57118037 |
| Trpv6  | 0.05015505 | 1.64659565 | 0.01840039 | 0.89346165 | 0.57129805 |
| Htra3  | -0.0490639 | 4.06121175 | 0.01835648 | 0.89358802 | 0.57129805 |
| Rrp1   | 0.01975681 | 7.75798968 | 0.01835544 | 0.89359103 | 0.57129805 |
| Arhgef40 | -0.026233 | 3.63309355 | 0.01834106 | 0.89363244 | 0.57129805 |
| Ybx2   | 0.09534236 | -0.0781036 | 0.01830439 | 0.89373813 | 0.57131798 |
| Dennd4a | -0.018045 | 7.418427 | 0.01828833 | 0.89378447 | 0.57131798 |
| Igj    | 0.06512355 | 1.01319306 | 0.01826958 | 0.8938386 | 0.57131798 |
| Adap1  | 0.02544681 | 4.20432379 | 0.01822675 | 0.89396229 | 0.57135977 |
| Taok2  | -0.022165 | 5.310984 | 0.01819805 | 0.89404531 | 0.57136744 |
| Nup153 | -0.0188754 | 6.16442377 | 0.01815537 | 0.89416882 | 0.57136744 |
| 170007P06l | 0.09677057 | -0.667829 | 0.01814063 | 0.89421153 | 0.57136744 |
| Jsrp1  | -0.1196854 | -0.75672 | 0.01811276 | 0.89429229 | 0.57136744 |
| Wdr8   | 0.04370217 | 2.26818252 | 0.01806837 | 0.89442109 | 0.57136744 |
| Malt1  | -0.0309176 | 3.60673066 | 0.0180555 | 0.89445848 | 0.57136744 |
| Rab39  | -0.0723838 | 0.57454384 | 0.01805139 | 0.89447042 | 0.57136744 |
| Gna14  | 0.08494396 | 1.3106898 | 0.01803675 | 0.89451295 | 0.57136744 |
| Gpr139 | 0.10542567 | -0.5549748 | 0.01800886 | 0.89459402 | 0.57136744 |
| Trdn   | 0.0816261 | 0.16367472 | 0.01800773 | 0.8945973 | 0.57136744 |
| Ntsr2  | 0.03826078 | 3.21728665 | 0.018001 | 0.89461688 | 0.57136744 |
| Tspan2 | -0.0218412 | 6.3946554 | 0.01797004 | 0.89470698 | 0.57136744 |
| Asb2   | 0.10491205 | 0.02670531 | 0.01796124 | 0.8947326 | 0.57136744 |
| 9230110C19l | -0.032817 | 3.02451979 | 0.01791659 | 0.89486269 | 0.57141326 |
| Ras10b | -0.0327034 | 3.49792742 | 0.01780979 | 0.89517457 | 0.57157516 |
| Gatc   | -0.0224111 | 7.36425707 | 0.01778958 | 0.89523371 | 0.57157565 |
| Jmd4   | 0.02251693 | 4.63418793 | 0.01761494 | 0.89574603 | 0.57184152 |
| Eftud2 | 0.02279454 | 5.01527971 | 0.01760785 | 0.89576667 | 0.57184152 |
| Cln5   | 0.05177533 | 2.3199123 | 0.01754624 | 0.89594829 | 0.57192006 |
| Gjc3   | 0.02687851 | 5.44559443 | 0.01749002 | 0.8961141 | 0.57196328 |
| Prrg3  | -0.0153147 | 6.63317947 | 0.01748141 | 0.89613953 | 0.57196328 |
| Gpr4   | 0.03525231 | 5.56002445 | 0.01746063 | 0.89620089 | 0.57196328 |
| Trim67 | 0.05596177 | 1.22140215 | 0.01743049 | 0.89628995 | 0.57196328 |
| Ifi203 | 0.04790992 | 3.12728401 | 0.01741737 | 0.89632877 | 0.57196328 |
Shroom4  0.03755099  3.13879811  0.01740466  0.89636635  0.57196328
Gata2  0.09013829  0.77249264  0.01731107  0.89664369  0.57210298
Slc23a2a  -0.0168985  7.23608384  0.01718065  0.89703142  0.5722589
Nup153  -0.0159615  7.74209213  0.01715881  0.89709649  0.5722589
Zc3h3  -0.0404391  2.62834499  0.01715049  0.8971213  0.5722589
Serpine2  -0.0196863  5.98452131  0.01715034  0.89712175  0.5722589
Pkd1l3  0.06492672  0.8831859  0.01712044  0.89721092  0.5722675
Zmat1  0.02178958  5.17673557  0.01709197  0.89729593  0.5722675
Mapk6  -0.0145456  7.5119382  0.01707021  0.89736092  0.5722675
Irs2  0.03262119  4.35157986  0.01706753  0.89736893  0.5722675
Fgd5  -0.0733905  1.84175982  0.01702404  0.89749898  0.57231318
Nampt  0.01693359  7.31073047  0.01698555  0.89761425  0.57234943
Ubxn4  -0.0140545  7.28314811  0.01686249  0.89798361  0.5725205
Tbcb  -0.0281226  4.55125127  0.01685723  0.89799944  0.5725205
Col4a6  -0.040163  2.4222693  0.01678367  0.89822092  0.57264243
Ptcd2  -0.0242932  4.69005806  0.01674262  0.89834475  0.57266611
Fam110a  -0.0628338  1.23693417  0.01670724  0.89845157  0.57269693
Rc3h2  0.01634057  7.92859234  0.01668566  0.89851679  0.57270123
Rtel1  -0.041551  2.53186171  0.0166218  0.89871007  0.57278716
Rora  0.01656606  8.37690505  0.01659071  0.89880427  0.57280992
Cd44  -0.0300111  3.13111967  0.01657076  0.89886479  0.57281122
4930528A17  0.18188218  -1.4834842  0.0165412  0.89895453  0.57282112
Rgs5  0.03045246  4.11792046  0.01652712  0.89899727  0.57282112
4933408B17  0.21725481  -1.1572245  0.0164637  0.89919015  0.57290569
Zkscan8  0.01934966  6.10581544  0.01644504  0.89924697  0.57290569
Aspn  0.12382419  -0.6780731  0.01642543  0.8993067  0.57290648
N4bp2  -0.0313558  3.4697598  0.01638979  0.89941538  0.57292034
Apol9b  -0.1031982  -0.6994516  0.01635449  0.89952313  0.57292034
Mpwd1  -0.0369748  2.850041  0.01635936  0.89952477  0.57292034
Pgs1  0.0230595  4.41509529  0.01633549  0.8995812  0.57292034
Secisbp2  0.02625014  3.83289147  0.0163225  0.8996209  0.57292034
Cdc25a  -0.0323969  2.73292837  0.01627323  0.89977165  0.57294584
Wnk1  0.01374335  10.008663  0.01627118  0.89977793  0.57294584
Fbxo6  -0.0343693  2.55592837  0.01623736  0.89988155  0.57297458
Zfp948  0.02975928  3.61939955  0.01619313  0.90001724  0.5730099
Mlp1  0.04544004  2.44175312  0.01618114  0.90005403  0.5730099
Bloc1s2  0.03069815  3.29573558  0.01615144  0.90014529  0.57303076
Pf4  -0.115216  -1.4000512  0.01611373  0.90026127  0.57306734
Fam69a  -0.0203347  4.66369222  0.01607178  0.90039046  0.57307959
Pot1a  -0.0222019  5.1867932  0.01606936  0.9003979  0.57307959
As3mt  0.03196097  3.54657067  0.01603335  0.90050895  0.57307959
Rab27b  0.02059978  5.41007318  0.01603154  0.90051453  0.57307959
Cd68  -0.0447895  2.3580621  0.0159876  0.90065019  0.57312869
| Gene          | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Rab11fip5    | 0.01939485 | 5.95716067 | 0.01594937 | 0.9007684 | 0.57316667 |
| Kdm6b       | -0.0241826 | 5.61535267 | 0.01590606 | 0.90090246 | 0.57321475 |
| Pthr2       | -0.1864211 | -0.5024789 | 0.01588163 | 0.90097818 | 0.57322569 |
| Pdck1       | 0.03392109 | 2.85859714 | 0.01584986 | 0.9010767 | 0.57325114 |
| Shisa5      | 0.0307561 | 5.06994187 | 0.01578859 | 0.90126704 | 0.57333499 |
| Slc37a2     | 0.10745427 | -0.1409012 | 0.01570208 | 0.90153641 | 0.57346911 |
| Trp73       | -0.1118021 | -0.2048053 | 0.01563158 | 0.9017565 | 0.57357186 |
| Mnda        | 0.08737853 | -0.6338785 | 0.01556163 | 0.90197538 | 0.57366669 |
| Bcl7a       | 0.02294764 | 4.93507583 | 0.01552802 | 0.9020807 | 0.57366669 |
| Dnh33       | 0.02764955 | 4.90226004 | 0.01550521 | 0.90215227 | 0.57366669 |
| Gmfb        | 0.01514296 | 8.2222009 | 0.01550133 | 0.90216446 | 0.57366669 |
| Kcnj4       | -0.0298663 | 3.36991447 | 0.01549051 | 0.90219842 | 0.57366669 |
| Wscd2       | -0.0290798 | 3.52687442 | 0.01543331 | 0.90234673 | 0.57372375 |
| Stil        | -0.0667911 | 0.88091538 | 0.01539465 | 0.90249988 | 0.57378388 |
| Lars2       | -0.02061 | 13.41593535 | 0.01534752 | 0.90264841 | 0.57383391 |
| 9330151L19f | 0.02705444 | 4.78112007 | 0.01533253 | 0.90269574 | 0.57383391 |
| Numb        | -0.0205741 | 5.65734998 | 0.01527928 | 0.90286392 | 0.57390358 |
| Btd         | 0.03683681 | 3.78710427 | 0.01521404 | 0.90307042 | 0.57397536 |
| Stard13     | -0.0175696 | 5.39133096 | 0.01520659 | 0.90309404 | 0.57397536 |
| Ebi3        | -0.1529348 | -1.0286193 | 0.01517135 | 0.90320578 | 0.57400914 |
| Rbpb9       | 0.02204274 | 6.4796997 | 0.01512317 | 0.9033588 | 0.57406914 |
| 4930528D03  | 0.08281359 | -0.1350901 | 0.01505319 | 0.90358149 | 0.57409694 |
| Mirc22hg    | -0.0253555 | 3.66681709 | 0.01505164 | 0.90358642 | 0.57409694 |
| Dcra        | 0.08465371 | 0.43505574 | 0.01504555 | 0.90360583 | 0.57409694 |
| Pde4d       | 0.02094412 | 7.08529817 | 0.01502612 | 0.90366777 | 0.57409694 |
| 4732491K20l | -0.0443801 | 2.09539837 | 0.01501114 | 0.9037147 | 0.57409694 |
| Sh3bp2      | 0.05191241 | 1.47945493 | 0.01498121 | 0.90381106 | 0.57409694 |
| Chn2a       | 0.0948429 | -0.6586616 | 0.01498066 | 0.90381281 | 0.57409694 |
| Svop        | 0.02382269 | 5.76057809 | 0.01492471 | 0.90399167 | 0.57414083 |
| Galnt18     | -0.0372741 | 2.29504213 | 0.01491798 | 0.9040132 | 0.57414083 |
| Zwilch      | 0.05606983 | 1.47639998 | 0.01490406 | 0.90405776 | 0.57414083 |
| Igf2os      | -0.0428903 | 3.56174372 | 0.01482562 | 0.90430925 | 0.57426332 |
| Grk5        | -0.0192545 | 5.33355787 | 0.01477108 | 0.90448452 | 0.57431029 |
| Hqcal4      | 0.01857068 | 9.96877456 | 0.01476612 | 0.90450048 | 0.57431029 |
| Eif4e2      | 0.01848757 | 5.28784106 | 0.01469857 | 0.90471806 | 0.57441121 |
| 2610037D02  | 0.07667354 | 0.16203569 | 0.01461483 | 0.90498847 | 0.57454565 |
| Tmco4       | 0.05120969 | 2.26886504 | 0.01457087 | 0.90513074 | 0.57457178 |
| Mmp19       | 0.04371319 | 2.61996574 | 0.01456587 | 0.90514695 | 0.57457178 |
| Serbp1      | 0.01264002 | 9.37863843 | 0.01454628 | 0.90521042 | 0.57457484 |
| Sec61a2     | 0.0275233 | 4.92170337 | 0.01452364 | 0.90528383 | 0.5745842 |
| Slc47a1     | -0.0421786 | 5.38233735 | 0.01447552 | 0.90544009 | 0.57464614 |
| Tdp2        | 0.02751862 | 3.61974665 | 0.01441868 | 0.90562496 | 0.57471537 |
| Lamtor4     | -0.056197 | 1.98318415 | 0.01440593 | 0.90566651 | 0.57471537 |
| Gene     | Prmt10  | Cstf3     | Scl25a32 | Rnf167 | Mettl1  | Laptm4a | Sfrp2     | Lair1    | 2310057M21 | Ndp    | Supt7l    | Gdf5    | Drd5     | Suv420h1 | Diablo   | Zpbp    | Rnf111   | Mybl2    | Aox4    | Psap    | Ankrd6   | Cep120   | Myccbp   | Pgm3    | Cabp4    | Psmb9    | Cox8b    | Gm960    | Rdh9    | Bola3    | Cth      | Mrpl37   | Oxtc1    | Sdr42e1   | Ctss    | Icam4    | Yod1     | Gm7008   | Nipsnap3b | Ranbp10   | Sppl2b   | Stac     | Gpr63    |
|----------|---------|-----------|----------|---------|---------|---------|-----------|----------|------------|---------|------------|---------|---------|-----------|---------|---------|----------|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|          | 0.03874576 | 3.33900613 | 0.01435884 | 0.90582004 | 0.57476083 | 0.0228272 | 5.29501296 | 0.01434797 | 0.9058555 | 0.57476083 | 0.02456484 | 3.88956618 | 0.01426709 | 0.90611989 | 0.57489135 | 0.02871531 | 4.18757965 | 0.01422391 | 0.90626137 | 0.57491426 | 0.10807658 | -0.75189711 | 0.01421895 | 0.90627765 | 0.57491426 | 0.02449274 | 8.05271211 | 0.01418636 | 0.90638456 | 0.57491426 | -0.0649749 | 0.51677032 | 0.01417571 | 0.90641954 | 0.57491426 | 0.03955456 | 3.29310948 | 0.0141666 | 0.90644947 | 0.57491426 | -0.0210189 | 4.09603702 | 0.01411248 | 0.90662746 | 0.57496773 | 0.08171264 | 1.01292183 | 0.01409683 | 0.906679 | 0.57496773 | 0.01902839 | 5.59171236 | 0.01408745 | 0.90670987 | 0.57496773 | -0.1230377 | -1.6391325 | 0.01399285 | 0.90702211 | 0.5750795 | -0.0743975 | 0.25089244 | 0.01398127 | 0.9070604 | 0.5750795 | 0.01324203 | 6.72862008 | 0.01398071 | 0.90706226 | 0.5750795 | 0.02869655 | 4.26106158 | 0.01380293 | 0.90765217 | 0.57535788 | -0.0920466 | 0.39865645 | 0.01379787 | 0.90766902 | 0.57535788 | -0.0123098 | 7.07452193 | 0.01378683 | 0.90770579 | 0.57535788 | 0.10256746 | -1.316841 | 0.01377768 | 0.90773629 | 0.57535788 | 0.07195966 | 0.66151393 | 0.01369643 | 0.90800741 | 0.57549249 | -0.0184868 | 8.49462902 | 0.01366882 | 0.90809975 | 0.57551377 | 0.02301562 | 5.51365967 | 0.01360788 | 0.90830384 | 0.57560588 | 0.01685578 | 6.33522438 | 0.01354902 | 0.90850145 | 0.57568597 | 0.02254377 | 5.63413358 | 0.01353524 | 0.90854778 | 0.57568597 | 0.0227888 | 4.00884134 | 0.01349234 | 0.90869213 | 0.57571385 | 0.14220515 | -0.8660315 | 0.01348723 | 0.90870933 | 0.57571385 | 0.0451403 | 3.32181791 | 0.01342657 | 0.90891392 | 0.57571713 | -0.1879273 | -1.4825481 | 0.0134092 | 0.90897256 | 0.57571713 | 0.0957678 | -0.5551087 | 0.01337675 | 0.90908226 | 0.57571713 | -0.0737117 | 0.40008975 | 0.01336823 | 0.90911108 | 0.57571713 | 0.0286418 | 3.33328221 | 0.01336691 | 0.90911554 | 0.57571713 | -0.0631174 | 0.94286867 | 0.01336217 | 0.90913159 | 0.57571713 | 0.02098201 | 4.02283892 | 0.01333274 | 0.90923125 | 0.57571713 | 0.0139229 | 8.33302897 | 0.01332253 | 0.90926586 | 0.57571713 | -0.0267964 | 2.65229571 | 0.01331856 | 0.9092793 | 0.57571713 | -0.0328024 | 3.74244017 | 0.01331179 | 0.90930225 | 0.57571713 | 0.08937921 | -0.0270766 | 0.01326245 | 0.90946972 | 0.57578595 | -0.0208262 | 4.82945894 | 0.01322394 | 0.90960065 | 0.57583162 | 0.07657738 | -0.366684 | 0.01315305 | 0.90984216 | 0.57594729 | -0.0238959 | 3.68325496 | 0.01308556 | 0.91007269 | 0.57600126 | -0.0183942 | 4.71513143 | 0.0130789 | 0.91009546 | 0.57600126 | 0.04626021 | 1.50331952 | 0.01307646 | 0.91010383 | 0.57600126 | -0.0875014 | 0.1183344 | 0.01305036 | 0.91019319 | 0.5760206 | -0.0290375 | 3.16893815 | 0.01301497 | 0.91031449 | 0.5760284 |
| Gene  | Value     | Value     | Value     | Value     | Value     | Value     |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pnpla2| 0.02894384 | 4.47056317 | 0.01299658 | 0.91037756 | 0.5760284 |
| Spats2| -0.0244188 | 3.28971686 | 0.0129946  | 0.91038436 | 0.5760284 |
| Nntn1 | -0.0302395  | 3.73349064 | 0.01297818 | 0.91044075 | 0.5760284 |
| Akap5 | 0.01473181  | 8.01809372 | 0.01293744 | 0.91058078 | 0.57607979|
| Elp4  | -0.0180271  | 4.2881464  | 0.012908   | 0.91068211 | 0.57610669|
| P2r6x | 0.05856487  | 1.20179979 | 0.01283034 | 0.91095001 | 0.57622155|
| Wdr89 | 0.04180342  | 1.0993631  | 0.01278287 | 0.91111415 | 0.57622155|
| Efnb1 | -0.0402365  | 3.42047178 | 0.01274043 | 0.91126119 | 0.57622155|
| Uxt   | -0.0327693  | 3.52008913 | 0.01273494 | 0.91128023 | 0.57622155|
| D630013N20 | 0.16236041 | -0.8906889 | 0.01272559 | 0.91131265 | 0.57622155|
| Map1s | 0.02575693  | 3.04419634 | 0.01272532 | 0.91131358 | 0.57622155|
| Cmss1 | 0.05324528  | 2.41005536 | 0.01269934 | 0.91140376 | 0.57622155|
| Nek2  | -0.0643512  | 1.56168566 | 0.01268381 | 0.9114577  | 0.57622155|
| Itga1 | -0.0202152  | 4.19163823 | 0.01268354 | 0.91145863 | 0.57622155|
| Adm   | 0.03426224  | 2.24747852 | 0.01266851 | 0.91151087 | 0.57622155|
| A330102I10F | -0.0597285 | 1.29368866 | 0.01265267 | 0.91156598 | 0.57622155|
| Ddit4 | 0.03421239  | 2.67190027 | 0.01265163 | 0.91156959 | 0.57622155|
| Kif2a | 0.01413863  | 7.65851713 | 0.01263445 | 0.91162939 | 0.5762216 |
| Cul1  | -0.0119618  | 7.35300591 | 0.01259168 | 0.91177844 | 0.57627035|
| Foxred1| 0.02907262 | 3.05111748 | 0.01256119 | 0.91188486 | 0.57627035|
| Adcy10| -0.062538  | 2.0138722 | 0.01255242 | 0.91191548 | 0.57627035|
| Pacs2 | 0.01355793  | 6.07020537 | 0.01251849 | 0.91203408 | 0.57627035|
| Mmd2  | 0.02347167  | 4.00550522 | 0.01248561 | 0.91214918 | 0.57627035|
| Nckap1| -0.0274708  | 3.03439757 | 0.01248207 | 0.91216159 | 0.57627035|
| Cnih2 | 0.0214796   | 3.54137883 | 0.01247148 | 0.9121987 | 0.57627035|
| Syn1  | 0.02535133  | 10.2351077 | 0.01244794 | 0.91228123 | 0.57627035|
| Nphp3 | 0.03333003  | 2.49082718 | 0.01242032 | 0.91237818 | 0.57627035|
| Vkorc1| -0.032507   | 5.37488519 | 0.01238568 | 0.91249994 | 0.57627035|
| Rfx2  | -0.0324693  | 2.14871108 | 0.01238415 | 0.91250529 | 0.57627035|
| Nes   | 0.01949566  | 4.26178602 | 0.01236442 | 0.91257471 | 0.57627035|
| Fbxo8 | -0.016699  | 4.84429171 | 0.01236312 | 0.91257929 | 0.57627035|
| Rnd1  | -0.0430187  | 1.29585045 | 0.01235607 | 0.91260412 | 0.57627035|
| Brinp1| 0.01710583  | 6.39757904 | 0.01234915 | 0.91262849 | 0.57627035|
| InsL5 | 0.11952052  | -1.3287275 | 0.01237609 | 0.91272959 | 0.57627035|
| Elmod3| -0.0344601  | 3.29131426 | 0.01230298 | 0.91279126 | 0.57627035|
| AWS49542 | 0.06835332 | -0.2372378 | 0.01229841 | 0.9128074 | 0.57627035|
| Metrn | -0.0784107  | -0.6406921 | 0.01229387 | 0.91282342 | 0.57627035|
| Gm15319| 0.06180876 | 0.17664311 | 0.01224601 | 0.91299254 | 0.57633997|
| Casq2 | -0.0772626  | -0.2411714 | 0.01219012 | 0.9131905  | 0.57642779|
| Mettl13| -0.0300276 | 2.10148209 | 0.01214497 | 0.9133507  | 0.5764632 |
| Efna1 | 0.07176621  | 0.04723327 | 0.01214115 | 0.9133643  | 0.5764632 |
| Pdcd1lg2| -0.0680443 | 0.07482019 | 0.01209466 | 0.91352962 | 0.57653039|
| Fbln5 | -0.0441358  | 4.21843074 | 0.01205315 | 0.9136775  | 0.57658658|
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  |
|--------|---------|---------|---------|---------|---------|---------|
| Tmem138 | -0.0426976 | 3.0896614 | 0.01196689 | 0.91398564 | 0.57673682 |
| Zbtb17 | 0.03237338 | 2.6798355 | 0.01195356 | 0.91403335 | 0.57673682 |
| Il18rap | 0.09846375 | -0.4302662 | 0.01186458 | 0.91435259 | 0.57689465 |
| Arv1   | -0.0529637 | 0.87145989 | 0.01182869 | 0.9148168 | 0.57689465 |
| Qpct   | -0.0456529 | 1.2185287 | 0.01182292 | 0.91450245 | 0.57689465 |
| Haus7  | 0.03923427 | 2.08117045 | 0.01181831 | 0.91451906 | 0.57689465 |
| Cmah   | 0.01850127 | 6.36639796 | 0.01178268 | 0.9146475 | 0.57690231 |
| Chil1  | -0.0733309 | 0.532544 | 0.01178226 | 0.914649 | 0.57690231 |
| Klhl20 | 0.01884476 | 5.71641113 | 0.01174677 | 0.91477711 | 0.57694597 |
| Tmem17 | 0.03738502 | 1.7627744 | 0.01168929 | 0.91498502 | 0.57703994 |
| Clptm1l| -0.0218203 | 4.51045933 | 0.01157465 | 0.91540125 | 0.57721786 |
| Neurl4 | 0.02128117 | 4.54166249 | 0.01156925 | 0.9154209 | 0.57721786 |
| Morn3  | -0.1757603 | -1.2840511 | 0.01156293 | 0.91544391 | 0.57721786 |
| Bivm   | 0.01484937 | 4.9555411 | 0.01144552 | 0.91587258 | 0.57745097 |
| Sufu   | -0.019018 | 4.10405418 | 0.01141606 | 0.91598048 | 0.57748183 |
| Tonsl  | 0.06938841 | 0.46502871 | 0.01138481 | 0.91609511 | 0.57751693 |
| Nr3c2  | 0.01620742 | 5.95236095 | 0.01135052 | 0.91622105 | 0.57755915 |
| Agpat5 | -0.0144687 | 5.497355 | 0.01131673 | 0.91634534 | 0.5776003 |
| Naip1  | 0.14659803 | -1.843122 | 0.01128606 | 0.91645834 | 0.57763439 |
| Hps5   | -0.0241255 | 3.60626407 | 0.0112488 | 0.9165958 | 0.5776667 |
| Fbxw4  | 0.02877548 | 2.72014757 | 0.01121804 | 0.91670949 | 0.5776667 |
| Pih1d2 | -0.0656254 | 0.08336365 | 0.01121232 | 0.91673064 | 0.5776667 |
| Alg12  | -0.038346 | 2.79775609 | 0.01119263 | 0.91680349 | 0.5776667 |
| Gstm3  | 0.03759389 | 1.53275135 | 0.01119236 | 0.91680448 | 0.5776667 |
| Thap2  | -0.0181018 | 5.05056081 | 0.01116282 | 0.91691393 | 0.57767415 |
| Ap3b1  | 0.01381727 | 6.59633929 | 0.01115638 | 0.9169378 | 0.57767415 |
| Gclc   | 0.01402549 | 6.26031202 | 0.01114144 | 0.91699322 | 0.57767415 |
| Erg    | 0.04924742 | 1.59530933 | 0.01112441 | 0.91705643 | 0.57767682 |
| Naalad2| -0.04266 | 1.33162238 | 0.01108811 | 0.91719135 | 0.57772276 |
| Gm10767| 0.03283803 | 1.92261135 | 0.01107307 | 0.91724732 | 0.57772276 |
| Cfh    | -0.0263858 | 7.13021819 | 0.01102141 | 0.91743981 | 0.57776896 |
| Mknn3  | 0.08918594 | -0.2692378 | 0.01101827 | 0.91745155 | 0.57776896 |
| Rps6ka2| 0.01873008 | 5.22088032 | 0.01100113 | 0.91751554 | 0.57776896 |
| Rhov   | 0.0714684 | 1.2476218 | 0.01096937 | 0.91763423 | 0.57786896 |
| Cobli1 | -0.0192634 | 4.89653014 | 0.01096923 | 0.91763476 | 0.57786896 |
| Neil1  | -0.0690608 | -0.0590332 | 0.01095858 | 0.91767458 | 0.57786896 |
| Upf2   | -0.0122761 | 6.89054025 | 0.01092431 | 0.91780293 | 0.57777616 |
| Rsopo2 | -0.0314247 | 4.39083096 | 0.01092403 | 0.91780398 | 0.57777616 |
| C130060K24I | -0.0928996 | 0.00503325 | 0.01088255 | 0.91795957 | 0.5778142 |
| Htr1a  | 0.02273453 | 3.55770126 | 0.01087648 | 0.91798238 | 0.5778142 |
| Ly6a   | 0.05516006 | 2.3561402 | 0.01085716 | 0.91805496 | 0.57782275 |
| Adck4  | 0.05198681 | 1.29627474 | 0.01081787 | 0.91820309 | 0.5778631 |
| Tmem138 | 0.037933 | 1.17105868 | 0.010786 | 0.91832292 | 0.5778631 |
| Gene     | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Gm13139  | 0.035734 | 2.324417 | 0.010783 | 0.918332 | 0.577863 |
| Ccny1    | -0.016472| 5.320791 | 0.010752 | 0.918448 | 0.577863 |
| Dcaf13   | -0.015289| 4.454111 | 0.010749 | 0.918460 | 0.577863 |
| BC051226 | -0.104895| -1.608904| 0.010726 | 0.918547 | 0.577863 |
| Arhgap22 | -0.078176| 0.140626 | 0.010716 | 0.918584 | 0.577863 |
| Senp1    | 0.017659 | 5.225280 | 0.010691 | 0.918679 | 0.577863 |
| Zfp54    | -0.052173| 1.596791 | 0.010685 | 0.918703 | 0.577863 |
| Dnase2a  | -0.067845| -0.341298| 0.010683 | 0.918709 | 0.577863 |
| Itp3     | 0.033084 | 2.125562 | 0.010647 | 0.918846 | 0.577893 |
| 1110046J04f | -0.044239| 1.558164 | 0.010641 | 0.918868 | 0.577893 |
| Zfp947   | -0.031021| 2.255199 | 0.010623 | 0.918931 | 0.577865 |
| Arhgap30 | 0.034931 | 2.856489 | 0.010568 | 0.919147 | 0.577956 |
| Gpr156   | -0.055601| 1.134066 | 0.010567 | 0.919152 | 0.577956 |
| Dhx34    | 0.035276 | 1.342482 | 0.010534 | 0.919276 | 0.577944 |
| Fam53c   | -0.014482| 5.548669 | 0.010510 | 0.919369 | 0.577944 |
| Gmeb1    | 0.013716 | 5.298554 | 0.010509 | 0.919374 | 0.577944 |
| Emel2    | -0.110896| -1.054957| 0.010476 | 0.919532 | 0.578008 |
| Cd27     | 0.119644 | -1.549777| 0.010440 | 0.919636 | 0.578008 |
| Xaf1     | 0.024068 | 3.444955 | 0.010410 | 0.919750 | 0.578008 |
| Dad1     | -0.028346| 5.043889 | 0.010401 | 0.919780 | 0.578008 |
| Dis3l2   | -0.021750| 3.425553 | 0.010400 | 0.919788 | 0.578008 |
| Naa40    | 0.024039 | 2.943323 | 0.010388 | 0.919832 | 0.578008 |
| Pomp1    | -0.044523| 1.477260 | 0.010387 | 0.919841 | 0.578008 |
| Rell2    | 0.037429 | 1.687822 | 0.010376 | 0.919885 | 0.578008 |
| Thbs3    | 0.046389 | 1.106428 | 0.010233 | 0.920437 | 0.578318 |
| Foxr2d2  | -0.024490| 2.990961 | 0.010211 | 0.920591 | 0.578331 |
| Bcl2a1a  | 0.051250 | 0.168129 | 0.010169 | 0.920682 | 0.578359 |
| Pms1     | -0.026258| 2.753000 | 0.010163 | 0.920706 | 0.578359 |
| Topbp1   | -0.018042| 5.301035 | 0.010155 | 0.920737 | 0.578359 |
| Gm5088   | 0.032541 | 1.556211 | 0.010089 | 0.920994 | 0.578434 |
| Atp6v0e  | -0.027589| 4.752384 | 0.010053 | 0.921134 | 0.578534 |
| Ndc80    | 0.090940 | -0.395164| 0.010234 | 0.921252 | 0.578571 |
| D5Erdt579e | 0.013738 | 7.305169 | 0.009999 | 0.921345 | 0.578572 |
| Tspell3  | -0.014482| 4.667811 | 0.009989 | 0.921385 | 0.578572 |
| Prrs5    | 0.042149 | 1.402997 | 0.009778 | 0.921431 | 0.578572 |
| Robo1    | 0.016217 | 7.250738 | 0.009945 | 0.921556 | 0.578613 |
| Atg16l1  | -0.023536| 3.886491 | 0.009906 | 0.921712 | 0.578674 |
| Gca      | 0.017070 | 6.182719 | 0.009878 | 0.921821 | 0.578706 |
| Hira     | -0.016309| 4.138029 | 0.009835 | 0.921992 | 0.578754 |
| Wdfy2    | 0.039239 | 1.701888 | 0.009817 | 0.922062 | 0.578754 |
| Msc      | -0.119502| -0.979222| 0.009814 | 0.922075 | 0.578754 |
| Irf1     | 0.031823 | 2.974551 | 0.009760 | 0.922873 | 0.578751 |
| Tubb4a   | 0.016575 | 10.389844| 0.009756 | 0.922307 | 0.578751 |
| Gene  | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 | Value11 | Value12 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tspan7 | 0.01425671 | 8.1016807 | 0.00974742 | 0.92234068 | 0.5787517 |
| Onecut2 | -0.0240414 | 3.59482213 | 0.00974356 | 0.92235601 | 0.5787517 |
| Gm10638 | -0.0770582 | -0.6071244 | 0.00973291 | 0.92239832 | 0.5787517 |
| Siah1b | 0.03797445 | 1.8626382 | 0.00972251 | 0.92243965 | 0.5787517 |
| N4bp3 | -0.0451676 | 1.3835988 | 0.00970888 | 0.92249383 | 0.5787517 |
| Pfgr1 | 0.0370060 | 2.92611121 | 0.00965744 | 0.92269873 | 0.57884865 |
| Trim24 | 0.01380706 | 5.55712033 | 0.00963602 | 0.92278422 | 0.57886521 |
| Axin2 | 0.01979521 | 4.98891397 | 0.00958299 | 0.92299629 | 0.57896116 |
| Ei24 | 0.01652071 | 6.08275607 | 0.00956531 | 0.92306713 | 0.57896852 |
| Ccnjl | 0.05403203 | 1.08242256 | 0.00947362 | 0.92343549 | 0.57913962 |
| Pfkm | -0.0171496 | 5.87960746 | 0.00946799 | 0.92345816 | 0.57913962 |
| Egln1 | -0.0122671 | 6.86090147 | 0.00942183 | 0.92364437 | 0.57919059 |
| Tmem194 | 0.03587422 | 2.91223127 | 0.00941444 | 0.92367423 | 0.57919059 |
| Dlg1 | -0.0125047 | 7.4792636 | 0.0094039 | 0.92371683 | 0.57919059 |
| Rrm2b | -0.0122919 | 6.74187979 | 0.00935999 | 0.92389456 | 0.57926495 |
| Wac | -0.0136359 | 8.63974807 | 0.00933882 | 0.92398038 | 0.57928168 |
| Kmt2e | 0.01258441 | 9.52673944 | 0.00931067 | 0.92409465 | 0.57928993 |
| C78339 | 0.02609641 | 2.77947753 | 0.0092989 | 0.92414252 | 0.57928993 |
| Ctnap5a | 0.02366878 | 4.3575796 | 0.0092919 | 0.92417096 | 0.57928993 |
| Pkd2l2 | 0.02015725 | 3.72470118 | 0.00926765 | 0.92426967 | 0.57931333 |
| Neurod4 | -0.064987 | 0.44780469 | 0.00925368 | 0.92432657 | 0.57931333 |
| Ccnb1 | 0.0968922 | -1.0194549 | 0.00922407 | 0.92444735 | 0.57935196 |
| 4930581F22r | -0.0557197 | 0.41831874 | 0.00919945 | 0.92454793 | 0.57935952 |
| Zfp68 | -0.0163108 | 6.18202329 | 0.00917491 | 0.9246483 | 0.57935952 |
| Ddr1 | 0.01796292 | 3.43016774 | 0.00916056 | 0.92470708 | 0.57935952 |
| Dnajc5 | -0.0101295 | 7.92614819 | 0.00915973 | 0.92471046 | 0.57935952 |
| Tie1 | 0.07675207 | 0.39482434 | 0.00914883 | 0.92475514 | 0.57935952 |
| Unc119b | 0.02390441 | 4.03047117 | 0.00911285 | 0.92490278 | 0.57939767 |
| Sp140 | -0.0154026 | 4.89215056 | 0.00910516 | 0.92493434 | 0.57939767 |
| Gm7904 | -0.2286688 | -1.4868777 | 0.00906477 | 0.9251005 | 0.5794647 |
| Tbc1d22bos | -0.122893 | -1.0139922 | 0.00903535 | 0.92522177 | 0.5795036 |
| Esf1 | -0.0110948 | 7.18536144 | 0.00900395 | 0.92535139 | 0.57951347 |
| Pofut2 | 0.02546667 | 3.73010993 | 0.00900287 | 0.92535586 | 0.57951347 |
| Pla1a | 0.05951786 | 0.99689346 | 0.00898161 | 0.92544378 | 0.57952296 |
| Sic2a4 | -0.0609634 | 0.01525547 | 0.0089706 | 0.92548934 | 0.57952296 |
| Cops5 | 0.01046934 | 6.0242677 | 0.00894323 | 0.92560273 | 0.5795309 |
| Prosc | 0.01299959 | 5.53997079 | 0.00893898 | 0.92562035 | 0.5795309 |
| Armcx1 | -0.0127166 | 5.69029124 | 0.00890871 | 0.92574602 | 0.57957254 |
| Dgkd | -0.0182518 | 5.44293754 | 0.00885871 | 0.92595406 | 0.57963639 |
| Scaff4 | -0.0113431 | 6.40873382 | 0.00885575 | 0.92596636 | 0.57963639 |
| Mclm9 | 0.0352089 | 2.0178278 | 0.00877963 | 0.92628426 | 0.57977631 |
| Adprh | 0.0141796 | 4.24486342 | 0.0087739 | 0.92630825 | 0.57977631 |
| Arhgap29 | -0.0191097 | 9.98480511 | 0.00871697 | 0.92654697 | 0.57987004 |
| Gene   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Grap2  | 0.0402603 | 1.1940081 | 0.00870099 | 0.92661413 | 0.57987004 |
| Lman2l | -0.0212139 | 3.23296751 | 0.00867019 | 0.92674375 | 0.57987004 |
| Mrp19  | 0.01390326 | 5.02303377 | 0.00866797 | 0.92675309 | 0.57987004 |
| Gm13498 | -0.0577482 | -0.4467189 | 0.00866775 | 0.92675401 | 0.57987004 |
| Gtpbp8 | 0.01631278 | 3.77131635 | 0.00864708 | 0.92684115 | 0.57988753 |
| Brms1l | 0.01287995 | 5.94753582 | 0.00861931 | 0.92695833 | 0.57991326 |
| Gm2382 | -0.0266515 | 2.975679  | 0.00860929 | 0.92700068 | 0.57991326 |
| Nkiras1 | 0.01104567 | 6.11160246 | 0.00856744 | 0.92717781 | 0.57998703 |
| Slc25a29 | 0.04637184 | 0.83597894 | 0.00846991 | 0.92759227 | 0.58019142 |
| Pbx4   | -0.0509735 | 0.13138919 | 0.00846269 | 0.92762302 | 0.58019142 |
| Tmem59l | 0.02289268 | 4.17803681 | 0.00844021 | 0.92771895 | 0.58021437 |
| Zfp467 | 0.02264101 | 4.00171468 | 0.00841281 | 0.92783599 | 0.58022528 |
| Rad18  | 0.02308542 | 4.2203029  | 0.0084084 | 0.92785486 | 0.58022528 |
| Bcl3   | -0.0425391 | 0.8728901 | 0.00837257 | 0.92800829 | 0.58028418 |
| Gm6568 | 0.0403551 | 0.79574085 | 0.00834889 | 0.92810987 | 0.58031065 |
| Cyp39a1 | -0.0263651 | 3.46184472 | 0.00832987 | 0.92819159 | 0.5803247 |
| Ldb2   | -0.0116846 | 6.02685681 | 0.00827546 | 0.92842581 | 0.58041315 |
| Blmh   | -0.0141728 | 5.01121896 | 0.00826547 | 0.92846887 | 0.58041315 |
| Rab28  | 0.0128156 | 5.36756956 | 0.00825576 | 0.92851081 | 0.58041315 |
| Itm2c  | -0.0201124 | 7.70303371 | 0.00819873 | 0.92875744 | 0.58053027 |
| Tlr8   | -0.1158287 | -1.0531026 | 0.00810712 | 0.92915545 | 0.58071964 |
| Dnaaf2 | 0.02607082 | 3.59941112 | 0.00810172 | 0.92917897 | 0.58071964 |
| Otub2  | 0.01933399 | 3.60956246 | 0.00807395 | 0.92930012 | 0.5807497 |
| Igfbp7 | -0.0223457 | 5.10106368 | 0.00805039 | 0.92940306 | 0.5807497 |
| Mtmr2  | 0.01279379 | 6.65554123 | 0.0080353 | 0.92946905 | 0.5807497 |
| Ankrd26 | 0.01369513 | 5.96875239 | 0.0080182 | 0.92954392 | 0.5807497 |
| Dpyd   | 0.02218174 | 3.2659172 | 0.00801714 | 0.92954859 | 0.5807497 |
| Thsd4  | 0.02595516 | 6.29216156 | 0.00800933 | 0.92958281 | 0.5807497 |
| Ppme1  | 0.01459431 | 5.17759303 | 0.00796686 | 0.92976924 | 0.58078153 |
| Gad1   | 0.06583531 | -0.5549758 | 0.00795799 | 0.92980823 | 0.58078153 |
| Galm   | -0.0328044 | 2.35655813 | 0.00795722 | 0.92981163 | 0.58078153 |
| Tcer1g | -0.011861 | 6.61335519 | 0.00790843 | 0.93002653 | 0.58083322 |
| Cyp46a1 | 0.01557838 | 4.74106673 | 0.00790463 | 0.93004329 | 0.58083322 |
| Ythdf3 | -0.0103586 | 7.18928412 | 0.00787709 | 0.93016493 | 0.58083322 |
| Armc6  | -0.0286298 | 1.69641095 | 0.00787115 | 0.93019121 | 0.58083322 |
| Tc2n   | -0.0439326 | 0.86585266 | 0.00786923 | 0.93019967 | 0.58083322 |
| Mon1b  | -0.0108346 | 5.95988164 | 0.00785152 | 0.93027807 | 0.58083322 |
| Gpi1   | 0.01120202 | 7.06928865 | 0.00784443 | 0.93030946 | 0.58083322 |
| Cacnb2 | 0.01122642 | 6.33615313 | 0.00782643 | 0.93038924 | 0.58083707 |
| D630024D03 | 0.1238822 | -1.7869437 | 0.00781113 | 0.93045713 | 0.58083707 |
| Fhit   | -0.0539286 | 1.2402851 | 0.00780293 | 0.93049352 | 0.58083707 |
| A430033K04 | 0.01621556 | 5.56796504 | 0.00774852 | 0.93073564 | 0.58095119 |
| Wbscr25 | 0.08541974 | -0.9108051 | 0.00772934 | 0.93082117 | 0.58096755 |
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  |
|-------|---------|---------|---------|---------|---------|---------|
| Gfra1 | -0.0196149 | 3.28474915 | 0.00768735 | 0.93100886 | 0.58104768 |
| Rbpms2| 0.03209484 | 2.82537584 | 0.00766976 | 0.9310876 | 0.5810598 |
| Ndor1 | -0.022963 | 3.23268518 | 0.0076556 | 0.93115109 | 0.5810624 |
| Zfa-ps| 0.03500581 | 1.11562698 | 0.00762791 | 0.93127536 | 0.58108878 |
| Dedd2 | -0.0371825 | 1.48902123 | 0.00761976 | 0.93131202 | 0.58108878 |
| Iler3ip1| -0.0150057 | 5.53606747 | 0.00756283 | 0.93156838 | 0.58114097 |
| Tbcc  | -0.018225 | 3.28109105 | 0.00756002 | 0.93158107 | 0.58114097 |
| Toporsos| 0.0319112 | 1.98353634 | 0.00755497 | 0.93160387 | 0.58114097 |
| Tbl3  | 0.02963387 | 2.07913153 | 0.00754853 | 0.93163297 | 0.58114097 |
| Mmp23 | 0.0741677 | -0.4723101 | 0.00752928 | 0.93171997 | 0.58115823 |
| Fam134c| 0.02689107 | 2.95746964 | 0.00750892 | 0.93181209 | 0.58117868 |
| Sptlc2 | -0.0120987 | 5.07940509 | 0.00740674 | 0.93227644 | 0.58139933 |
| Oscp1 | 0.02013068 | 3.51831819 | 0.00739784 | 0.93231702 | 0.58139933 |
| 4930432K21I | -0.0509385 | -0.3257549 | 0.00738064 | 0.93239556 | 0.58139933 |
| Il12a | 0.03078298 | 1.92491101 | 0.00737895 | 0.93240328 | 0.58139933 |
| Bbs9 | -0.012098 | 5.07388828 | 0.00736376 | 0.93247268 | 0.58140559 |
| Cchrc1 | -0.0433365 | 0.99538075 | 0.0073158 | 0.9326924 | 0.5814898 |
| Pcgf6 | 0.02334683 | 3.32218114 | 0.00730838 | 0.93272646 | 0.5814898 |
| Gm9958 | 0.03163978 | 1.63163496 | 0.00724261 | 0.93302905 | 0.58164143 |
| Pip4k2b | -0.0116436 | 7.02044146 | 0.00722877 | 0.93309293 | 0.58164423 |
| Stxbp6 | 0.01326702 | 6.56505081 | 0.00715617 | 0.93342888 | 0.58181662 |
| Slc6a9 | -0.019069 | 4.07559452 | 0.00713377 | 0.93353292 | 0.58182977 |
| Papd7 | 0.01543934 | 4.69030791 | 0.00712605 | 0.93356878 | 0.58182977 |
| Ppp2r2c | -0.0124161 | 9.02177401 | 0.00708224 | 0.93377281 | 0.58188639 |
| Emb  | -0.0238017 | 6.18088226 | 0.00707361 | 0.93381306 | 0.58188639 |
| Gm17801 | -0.0867592 | -0.6337183 | 0.007065 | 0.93385327 | 0.58188639 |
| 5031434O11 | -0.074587 | 0.19315469 | 0.00705559 | 0.93389724 | 0.58188639 |
| Raver2 | 0.01893946 | 3.14227939 | 0.00702099 | 0.9340591 | 0.58195022 |
| Slc38a10 | 0.0179269 | 3.43456733 | 0.00696884 | 0.93430388 | 0.5820657 |
| Tmem236 | 0.11898977 | -1.7102304 | 0.00694132 | 0.93443339 | 0.58207405 |
| Nr2c1 | -0.0157222 | 4.14095446 | 0.00694074 | 0.93443612 | 0.58207405 |
| Fndc4 | -0.0185976 | 3.68251726 | 0.0069237 | 0.93451644 | 0.58208706 |
| Alpk2 | 0.11230726 | -1.4775081 | 0.00688395 | 0.93470424 | 0.58216702 |
| Stambpl1 | 0.01641117 | 3.56400113 | 0.00683921 | 0.93491625 | 0.58226205 |
| Slc39a7 | -0.0177463 | 4.19422238 | 0.00682424 | 0.93498735 | 0.58226931 |
| Axl | 0.02356728 | 5.27439036 | 0.00677229 | 0.93523469 | 0.5823833 |
| Fam161b | -0.0190065 | 3.87855137 | 0.00675167 | 0.93533313 | 0.5823833 |
| Islr | -0.0274812 | 6.83435633 | 0.0067484 | 0.93534876 | 0.5823833 |
| Gclm | -0.0143559 | 5.32642741 | 0.00669183 | 0.93561967 | 0.58250081 |
| Gm14436 | -0.0137497 | 5.06734564 | 0.00668418 | 0.93565643 | 0.58250081 |
| 9630013A20 | 0.03090989 | 1.48920394 | 0.00659275 | 0.93609696 | 0.58271794 |
| Flt3l | 0.03323222 | 1.70226686 | 0.00658064 | 0.93615554 | 0.58271794 |
| Mynn | 0.01139834 | 5.5697216 | 0.00655583 | 0.93627576 | 0.58271794 |
| Gene   | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Tmem229b | 0.03329797 | 2.03221828 | 0.00655031 | 0.93630251 | 0.58271794 |
| Slc25a22 | 0.01247026 | 4.94675892 | 0.00655028 | 0.93630265 | 0.58271794 |
| Ears2   | -0.0463258 | 0.22658193 | 0.00650712 | 0.93651239 | 0.58281145 |
| Mtfmt   | -0.0215028 | 3.0333309 | 0.00638551 | 0.93710709 | 0.58309393 |
| 4931428F04 | 0.03479737 | 1.13749693 | 0.00638305 | 0.93711918 | 0.58309393 |
| Strc    | 0.35466172 | -1.2857172 | 0.15895613 | 0.93725226 | 0.58309393 |
| Gm7457  | -0.0811059 | -0.9471554 | 0.00635451 | 0.9372596 | 0.58309393 |
| Terf2ip  | 0.010909 | 6.07454767 | 0.00635131 | 0.93727536 | 0.58309393 |
| Rnf40   | 0.01883939 | 3.98065516 | 0.00634155 | 0.93732348 | 0.58309393 |
| Plekha3  | 0.01180207 | 5.32988785 | 0.00630629 | 0.93749759 | 0.58316521 |
| Nrnx1   | 0.01357924 | 9.77366721 | 0.00628059 | 0.93762477 | 0.58317006 |
| 0610040F04 | -0.046726 | 0.96442766 | 0.00627538 | 0.9376506 | 0.58317006 |
| C130071C03 | 0.02263117 | 2.7042152 | 0.00626721 | 0.93769109 | 0.58317006 |
| Zfp458  | 0.02064833 | 4.61657535 | 0.00625665 | 0.93774353 | 0.58317006 |
| Mta1    | 0.01244332 | 4.54349994 | 0.0061846 | 0.93810222 | 0.5833331 |
| Dbn1    | 0.01537611 | 4.44211037 | 0.0061597 | 0.93822671 | 0.5833331 |
| Lingo3  | -0.0222432 | 3.01449084 | 0.0061532 | 0.93825925 | 0.5833331 |
| Ncstn   | -0.0151225 | 5.1058978 | 0.00615005 | 0.93827498 | 0.5833331 |
| Shisa6  | 0.01760373 | 5.30408921 | 0.00614437 | 0.93830346 | 0.5833331 |
| Sh2d3c  | 0.01267981 | 4.98566397 | 0.00608925 | 0.93858022 | 0.58346813 |
| Rbm25   | -0.0114835 | 8.74047397 | 0.00607161 | 0.93866904 | 0.58348631 |
| Myo1d   | 0.01351644 | 4.42317551 | 0.00603898 | 0.93883371 | 0.58355164 |
| Phyhipl | 0.01063417 | 7.4588456 | 0.00601023 | 0.93897919 | 0.58360503 |
| Pet100  | -0.0246713 | 3.54535669 | 0.00597976 | 0.93913373 | 0.58362788 |
| Ttc34   | -0.0579394 | -0.1334546 | 0.00597949 | 0.93913512 | 0.58362788 |
| Mesp2   | -0.0481563 | 1.96370812 | 0.0059634 | 0.9392169 | 0.58364168 |
| Ppp2r5b | 0.01679924 | 3.29609995 | 0.00591979 | 0.93943907 | 0.5837427 |
| Rreb1   | 0.01513861 | 5.25007658 | 0.00588131 | 0.93963584 | 0.58376461 |
| Dgcr8   | 0.01276379 | 4.13811439 | 0.00588121 | 0.93963632 | 0.58376461 |
| Abcb4   | 0.04483369 | 0.37409322 | 0.00587417 | 0.93967238 | 0.58376461 |
| Tmem74  | -0.0302397 | 1.24584302 | 0.00586631 | 0.93971271 | 0.58376461 |
| Smim20  | -0.0195406 | 3.66801231 | 0.00580097 | 0.9400487 | 0.58392788 |
| Pcyx1   | 0.01347509 | 5.62445195 | 0.00578358 | 0.94013843 | 0.58392788 |
| Ikzf2   | -0.0147296 | 4.23824318 | 0.00576688 | 0.94022478 | 0.58392788 |
| Ckmt1   | -0.0142277 | 5.28012258 | 0.00576661 | 0.94022617 | 0.58392788 |
| Tmem110 | 0.01676068 | 2.80599648 | 0.0057494 | 0.94031524 | 0.58392788 |
| 2410007B07 | -0.1089128 | -1.9733839 | 0.00572941 | 0.9404189 | 0.58392788 |
| 1700034G24 | 0.06774762 | -0.0836493 | 0.00572066 | 0.94046429 | 0.58392788 |
| Ptdss2  | -0.0172996 | 3.24280538 | 0.00569326 | 0.94060677 | 0.58392788 |
| Scamp3  | 0.01831939 | 3.63923408 | 0.00569277 | 0.94060929 | 0.58392788 |
| E030018B13 | 0.15042847 | -1.4538829 | 0.0056877 | 0.94063572 | 0.58392788 |
| Nucb1   | -0.0189187 | 4.56765034 | 0.00567153 | 0.94072001 | 0.58392788 |
| Tmem229b | -0.0193262 | 3.13060807 | 0.00567081 | 0.94072376 | 0.58392788 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 |
|--------|--------|--------|--------|--------|--------|--------|
| Dnajc3 | -0.0143934 | 6.76679914 | 0.00566539 | 0.94075201 | 0.58392788 |
| Cenpu  | -0.0406513 | -0.0263099 | 0.00565426 | 0.94081011 | 0.58392788 |
| Snrdp3 | -0.0230932 | 2.63607777 | 0.00561547 | 0.9410131 | 0.58399917 |
| Mef2d  | 0.00975684 | 7.08971438 | 0.00560861 | 0.94104909 | 0.58399917 |
| Gsr    | 0.00987732 | 5.88993082 | 0.00559818 | 0.94110383 | 0.58399917 |
| Zfp276 | -0.0215923 | 2.6787564 | 0.00556212 | 0.94129345 | 0.5840189 |
| Brd3   | -0.0098219 | 6.20578828 | 0.00554703 | 0.94137296 | 0.5840189 |
| Bach1  | 0.01212085 | 5.05667399 | 0.00554265 | 0.9413961 | 0.5840189 |
| Pgrmc1 | -0.0149759 | 7.58892138 | 0.00553384 | 0.94144257 | 0.5840189 |
| Zfp612 | -0.0132702 | 7.4305425 | 0.0055285 | 0.9414708 | 0.5840189 |
| Tfeb   | 0.03372848 | 1.47424651 | 0.00550071 | 0.94161778 | 0.58407386 |
| CPA2   | -0.0501399 | -0.4612285 | 0.00549622 | 0.94164159 | 0.58407386 |
| Luc7I2 | 0.0106365 | 7.39714737 | 0.00546286 | 0.94181865 | 0.5841669 |
| Nrbp1  | -0.0105154 | 5.94088008 | 0.00542719 | 0.94200853 | 0.58422747 |
| Adam5  | 0.06046626 | 0.8451942 | 0.00541123 | 0.94209369 | 0.58423388 |
| A330052D1 | 0.0415104 | 0.26860189 | 0.00540291 | 0.94213815 | 0.58423388 |
| Irf2   | -0.0127058 | 5.24195731 | 0.00536474 | 0.9423425 | 0.58430217 |
| 1600002H07 | -0.018791 | 3.04316158 | 0.00536007 | 0.94236757 | 0.58430217 |
| Dpss9  | 0.0121982 | 4.59523009 | 0.00531608 | 0.94260408 | 0.58439508 |
| Cpsf7  | 0.01217711 | 5.71114193 | 0.00531002 | 0.94263674 | 0.58439508 |
| Prss8  | 0.18003157 | -2.1549414 | 0.00527038 | 0.94285087 | 0.58449084 |
| Ipce1f | -0.0115723 | 7.00043625 | 0.00524513 | 0.94298767 | 0.58453865 |
| Sdk1   | 0.01834778 | 4.14071295 | 0.00520235 | 0.94322025 | 0.58462598 |
| Tmx1   | 0.01435455 | 4.8957351 | 0.00519727 | 0.94324792 | 0.58462598 |
| Bod1l  | 0.00991952 | 8.59520974 | 0.00517339 | 0.94337819 | 0.58466973 |
| Lrriq3 | 0.04589467 | 0.57315114 | 0.00513933 | 0.94356459 | 0.58467353 |
| Kctd11 | 0.02495837 | 3.32432119 | 0.00512481 | 0.94364419 | 0.58467353 |
| Zfp367 | -0.0161307 | 3.52014188 | 0.00510956 | 0.94372795 | 0.58467353 |
| Cwc25  | 0.0120028 | 4.51326967 | 0.00510501 | 0.94375298 | 0.58467353 |
| Tra2a  | 0.01039894 | 6.08364828 | 0.00508923 | 0.94383983 | 0.58467353 |
| Gls    | 0.01216449 | 9.46596455 | 0.00508523 | 0.94386186 | 0.58467353 |
| Zfp229 | -0.0162237 | 3.67899273 | 0.00507722 | 0.94390599 | 0.58467353 |
| Rdm1   | -0.029879 | 2.51132514 | 0.00507678 | 0.94390847 | 0.58467353 |
| Adora1 | -0.0104662 | 7.10715741 | 0.00507441 | 0.94392154 | 0.58467353 |
| Pus1   | -0.0239226 | 1.66141706 | 0.00503222 | 0.94415474 | 0.58478101 |
| Pascin1| -0.0106591 | 6.57730162 | 0.00501319 | 0.94426025 | 0.58480937 |
| Il13ra2| 0.03510585 | 1.98597913 | 0.00498883 | 0.94439559 | 0.5848405 |
| Tmem158| -0.0131834 | 4.10897851 | 0.00498266 | 0.94442992 | 0.5848405 |
| Ccc117 | 0.01391214 | 4.88265275 | 0.0048785 | 0.94501282 | 0.58516447 |
| Col26a1| 0.02611819 | 1.50329749 | 0.00484445 | 0.94520471 | 0.5852251 |
| Zfp472 | -0.0240347 | 1.75869423 | 0.00482452 | 0.94531735 | 0.5852251 |
| Fam76b | 0.01540591 | 4.65486334 | 0.00481388 | 0.94537759 | 0.5852251 |
| Cldn5  | 0.06621568 | -0.2046789 | 0.00481128 | 0.9453923 | 0.5852251 |
| Gene       | P-value 1  | P-value 2  | P-value 3  | P-value 4  | P-value 5  | P-value 6  |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pmp2      | 0.01665849| 8.57001292| 0.00480825| 0.94540947| 0.5852251 |
| Atxn10    | -0.0074081| 7.66352388| 0.00477927| 0.94557394| 0.58528993|
| Abcd2     | -0.0148084| 4.77158187| 0.00472596| 0.94587788| 0.5853504 |
| Scarb2    | 0.01800217 | 4.27595107| 0.00472069| 0.945908  | 0.5853504 |
| Wdr81     | -0.0191679 | 3.02157766| 0.00471838| 0.94592119| 0.5853504 |
| Eric6     | -0.0389319 | 1.27272317| 0.00471415| 0.94594539| 0.5853504 |
| Usp27x    | 0.0110525  | 4.93859851| 0.00470146| 0.94601808| 0.5853504 |
| Tmem66    | -0.0104855 | 5.98328088| 0.00469935| 0.94603018| 0.5853504 |
| Socs5     | -0.0092698 | 6.54267267| 0.00465604| 0.94627904| 0.58546739|
| Srrm1     | -0.0067329 | 7.56337242| 0.00463606| 0.94639424| 0.58550169|
| Rmdn1     | 0.01630297 | 3.73525051| 0.00458182| 0.94670826| 0.58564161|
| Rgs8      | -0.0123926 | 6.68073307| 0.00457636| 0.94673999| 0.58564161|
| Ptk3r3    | -0.007655  | 6.59840432| 0.00456075| 0.94683075| 0.58566077|
| Sfxn4     | -0.0199419 | 3.64508379| 0.00453261| 0.94699477| 0.58572524|
| Trmt1     | 0.02048555 | 2.8026084 | 0.00452214| 0.9470559 | 0.58572606|
| Elavl3    | 0.01017466 | 7.19794494| 0.00450608| 0.94714565| 0.58573494|
| Tnfsf13   | 0.06660894 | -1.1613654| 0.00449925| 0.94718985| 0.58573494|
| Fto       | -0.0080547 | 7.00755629| 0.00448487| 0.94727422| 0.5857013 |
| Pigs      | -0.0123432 | 4.61576132| 0.00447356| 0.94734059| 0.58575432|
| Dkk2      | -0.0835284 | -0.8060264 | 0.00445553| 0.94744669| 0.58578282|
| Sephs2    | -0.0129433 | 4.04139257| 0.00443448| 0.94756887| 0.58582139|
| Pax6      | 0.02178962 | 2.24170717| 0.0043869  | 0.94785237| 0.58594467|
| Kcnh6     | -0.0399497 | -0.1846566 | 0.00438091| 0.94788792| 0.58594467|
| Gpr179    | -0.0621616 | -0.4016833 | 0.004367  | 0.94797057| 0.58595879|
| Gnl2      | 0.00876021 | 5.97776156| 0.00435627| 0.94803445| 0.58596129|
| Tmem51    | -0.0246779 | 2.21709795| 0.00432999| 0.94819177| 0.58602156|
| Acot9     | -0.0130417 | 3.80085597| 0.00430821| 0.94832149| 0.58606475|
| Rbm39     | -0.0072121 | 7.64977397| 0.00428035| 0.94848859| 0.58613104|
| Tnfsf22   | 0.02307691 | 1.74743848| 0.00421998| 0.94885258| 0.58631989|
| C330013E15 | -0.0357115 | 0.41328429| 0.00419323| 0.94901471| 0.58638217|
| Rad51ap2  | 0.0349358  | 1.2965391 | 0.00408384| 0.9496832 | 0.58659861|
| Vil1      | -0.0486931 | -0.0528895 | 0.00407421| 0.94974244| 0.58659861|
| Tec       | -0.0153268 | 5.07150878| 0.00406318| 0.94981044| 0.58659861|
| Tas1r3    | -0.0421643 | -0.1782649 | 0.00405048| 0.94988883| 0.58659861|
| Srd5a3    | -0.0225663 | 2.96750846| 0.00403999| 0.94995366| 0.58659861|
| Chmp4c    | -0.0819847 | -1.6063499 | 0.00403933| 0.94995777| 0.58659861|
| Actg2     | -0.0609242 | -0.8348818 | 0.00403792| 0.94996646| 0.58659861|
| Zfp800    | -0.0115805 | 5.95938566| 0.00403006| 0.95001516| 0.58659861|
| Ppp2r1b   | -0.008609  | 5.52140425| 0.00402453| 0.95004937| 0.58659861|
| Rundc1    | 0.01068756 | 5.45873072| 0.00402286| 0.95005972| 0.58659861|
| Rgl1      | 0.00663434 | 7.58694642| 0.00402221| 0.95006374| 0.58659861|
| Serpinb10 | -0.0498526 | -0.6672712 | 0.00401901| 0.95008362| 0.58659861|
| Wipi2     | -0.0121003 | 5.00363007| 0.00400644| 0.95016162| 0.58660979|
| Gene  | Value 1  | Value 2  | Value 3  | Value 4  | Value 5  | Value 6  | Value 7  | Value 8  | Value 9  |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Gstm1 | -0.0143217 | 7.64972735 | 0.00396038 | 0.95044852 | 0.58674933 |
| Brinp3 | -0.0108986 | 4.53933013 | 0.00393058 | 0.95063504 | 0.58678784 |
| Zdhhc23 | -0.0331734 | 1.06906349 | 0.00392014 | 0.95070055 | 0.58678784 |
| Tspan11 | 0.01965045 | 3.38958987 | 0.00391949 | 0.95070465 | 0.58678784 |
| Neurod1 | -0.0164484 | 3.51486705 | 0.00391235 | 0.95074953 | 0.58678784 |
| Gm13242 | -0.054135 | -0.9866561 | 0.00388985 | 0.95089111 | 0.58681756 |
| Pcdhga4 | 0.02171032 | 1.68857709 | 0.00388567 | 0.95091752 | 0.58681756 |
| Stard8 | 0.00762156 | 5.63681122 | 0.00386195 | 0.95106736 | 0.58687306 |
| BC017643 | -0.0201419 | 2.48039427 | 0.00383461 | 0.95124061 | 0.58694299 |
| Cmtr1 | -0.0127924 | 5.59587889 | 0.00379851 | 0.95147035 | 0.58704097 |
| Amz2 | 0.01078935 | 4.75288145 | 0.00378341 | 0.95156677 | 0.58704097 |
| Naglu | -0.0293354 | 1.20985482 | 0.00378147 | 0.95157919 | 0.58704097 |
| Fv1 | 0.03526368 | 0.54461146 | 0.00375513 | 0.95174799 | 0.58710807 |
| Pelp1 | -0.0145822 | 3.28073169 | 0.00373213 | 0.95189572 | 0.58715491 |
| Map4k5 | 0.00735496 | 5.95929711 | 0.00372013 | 0.95197301 | 0.58715491 |
| Glibl2 | 0.05322171 | -0.4162008 | 0.00371294 | 0.95201941 | 0.58715491 |
| Il1rl2 | 0.06448337 | -1.0983278 | 0.00370609 | 0.95206359 | 0.58715491 |
| Lpar1 | 0.01537768 | 6.85129751 | 0.00369639 | 0.95212631 | 0.58715662 |
| Adrbk1 | -0.010018 | 3.28073169 | 0.00363213 | 0.95218957 | 0.58725004 |
| Scn9a | -0.023558 | 2.68024145 | 0.00362189 | 0.95261057 | 0.58728018 |
| Pcolce2 | 0.0315971 | 1.14660412 | 0.00361057 | 0.95268462 | 0.58728018 |
| Fam212a | -0.0577303 | -0.7309088 | 0.003601 | 0.95274725 | 0.58728018 |
| 4930429F24I | -0.0335812 | 0.47399518 | 0.00357704 | 0.9529045 | 0.58728018 |
| Ppapdc1b | -0.0105766 | 4.27415139 | 0.0035667 | 0.95297256 | 0.58728018 |
| 2610100L16f | -0.0202108 | 2.15137763 | 0.00356038 | 0.95301421 | 0.58728018 |
| 4930405A21 | -0.0311714 | 1.03742886 | 0.0035595 | 0.95302001 | 0.58728018 |
| Tgif2 | -0.0213376 | 2.2958135 | 0.00355786 | 0.95303082 | 0.58728018 |
| Khlh42 | -0.0071629 | 6.43862941 | 0.00355762 | 0.95303236 | 0.58728018 |
| Lrcc71 | 0.06769169 | -1.4883196 | 0.00355738 | 0.953034 | 0.58728018 |
| Lamp1 | -0.0130162 | 7.56325449 | 0.00355554 | 0.95304613 | 0.58728018 |
| Chrb4 | -0.032009 | 0.14843537 | 0.00352004 | 0.95328079 | 0.58738783 |
| Gsta3 | -0.0339939 | 0.88015063 | 0.00348535 | 0.95351132 | 0.58749291 |
| Zfp953 | 0.01637663 | 2.98051226 | 0.00345208 | 0.95373347 | 0.58759283 |
| Fzd1 | -0.0130479 | 6.13564224 | 0.00344014 | 0.95381341 | 0.58760109 |
| Pdhb | -0.0061602 | 6.93228658 | 0.00343218 | 0.95386685 | 0.58760109 |
| Tbl1xr1 | -0.0063087 | 7.63651991 | 0.0034138 | 0.95399036 | 0.58764022 |
| Daglb | 0.01391728 | 3.1308302 | 0.00339138 | 0.95414156 | 0.5876668 |
| Dgat2 | -0.0125427 | 3.75689684 | 0.0033961 | 0.9541535 | 0.5876668 |
| Spred2 | 0.00734204 | 8.20895939 | 0.00337773 | 0.9542338 | 0.5876793 |
| Ttl11 | 0.01299898 | 4.20607825 | 0.00334082 | 0.95448422 | 0.58779657 |
| Cysltr1 | 0.03894342 | -0.4593609 | 0.00326375 | 0.95501173 | 0.58806381 |
| Gm684 | 0.0131901 | 3.50100373 | 0.0032599 | 0.95503825 | 0.58806381 |
| Dbr1 | -0.0112607 | 3.96110004 | 0.00323782 | 0.95519055 | 0.58811254 |
| Gene     | Value1   | Value2   | Value3   | Value4   | Value5   |
|----------|----------|----------|----------|----------|----------|
| Ogfod3   | 0.02208482 | 2.08932277 | 0.00323104 | 0.95523747 | 0.58811254 |
| Rasl12   | -0.0417593 | -0.0654377 | 0.00320638 | 0.95540841 | 0.58818082 |
| Gtf2h1   | 0.0104958 | 5.09621696 | 0.00311799 | 0.95602663 | 0.58849541 |
| Zfand6   | 0.01044211 | 5.61016138 | 0.00310771 | 0.9560991 | 0.58849541 |
| Syngr2   | -0.0245608 | 1.68918734 | 0.00310764 | 0.95609965 | 0.58849541 |
| Acad12   | 0.04172226 | -0.9552592 | 0.00309326 | 0.95620121 | 0.58850406 |
| Snupn    | 0.01404361 | 3.39514449 | 0.00308864 | 0.95623386 | 0.58850406 |
| Sh3kbp1  | -0.0077563 | 6.38425475 | 0.00306872 | 0.95637507 | 0.58851003 |
| Dvl1     | 0.01020605 | 4.07621373 | 0.00306093 | 0.95643043 | 0.58851003 |
| Cyb561d2 | 0.02432828 | 1.76477958 | 0.00304978 | 0.95650977 | 0.58851003 |
| Slc28a3  | 0.0323324 | 1.09393552 | 0.00304765 | 0.95652494 | 0.58851003 |
| 2700046G09 | -0.0240504 | 1.75503727 | 0.00303048 | 0.95664749 | 0.58851003 |
| Ddx19a   | 0.00968134 | 5.44070888 | 0.00302839 | 0.9566624 | 0.58851003 |
| LOC106740| 0.01152443 | 4.1747146 | 0.00302168 | 0.95671036 | 0.58851003 |
| Cd7      | 0.1534845 | -1.7326019 | 0.01676164 | 0.95672929 | 0.58851003 |
| Usp38    | 0.00927562 | 5.03510708 | 0.00300117 | 0.95685363 | 0.58851003 |
| Sfmbt1   | 0.00712652 | 5.97509888 | 0.00299697 | 0.95688757 | 0.58851003 |
| Sigm1r   | -0.0109058 | 3.01872859 | 0.00299462 | 0.95690445 | 0.58851003 |
| Smim4    | 0.01677188 | 2.15559357 | 0.0029675 | 0.95709982 | 0.58859323 |
| Msh2     | -0.0098022 | 4.64569386 | 0.00292789 | 0.9573868 | 0.58873276 |
| Sass6    | 0.01141816 | 3.77705377 | 0.00290048 | 0.95758656 | 0.58879832 |
| Arhgef6  | 0.00789857 | 6.45736664 | 0.00289677 | 0.95761365 | 0.58879832 |
| Zbtb40   | 0.02165862 | 2.50864861 | 0.00288055 | 0.9577324 | 0.58880854 |
| Trim35   | 0.0066133 | 6.9522191 | 0.00287808 | 0.95775049 | 0.58880854 |
| Fstl1    | 0.01661781 | 7.22418471 | 0.00285233 | 0.95793969 | 0.58886364 |
| Lpar6    | 0.01662291 | 2.23537527 | 0.00284953 | 0.95796035 | 0.58886364 |
| Gm15713  | -0.0509982 | -0.6500398 | 0.00283658 | 0.95805589 | 0.58886699 |
| Ntrk1    | 0.04867166 | -1.4088131 | 0.0028261 | 0.95813338 | 0.58886699 |
| Itgb7    | 0.04999767 | -1.4779286 | 0.00282234 | 0.95816118 | 0.58886699 |
| Ror1     | -0.0304358 | 0.88849533 | 0.00281042 | 0.95824955 | 0.58886699 |
| Cysl2r   | -0.0572172 | -0.9832844 | 0.00280763 | 0.95827026 | 0.58886699 |
| Elovl2   | -0.0171556 | 2.66654295 | 0.00280006 | 0.9583265 | 0.58886699 |
| Aldh12   | -0.021753 | 2.81231289 | 0.00278491 | 0.95843931 | 0.58889937 |
| Rce1     | -0.0346508 | 0.41775303 | 0.00277321 | 0.95852658 | 0.58891605 |
| Msl3l2   | 0.01172324 | 4.12858652 | 0.00274845 | 0.95871196 | 0.588993 |
| Gng8     | 0.03926663 | -0.4881482 | 0.00273525 | 0.95881113 | 0.58901618 |
| Dyrk1a   | 0.00587075 | 7.22479528 | 0.00271834 | 0.95893852 | 0.58901618 |
| Doc2g    | -0.0514922 | -0.3671259 | 0.00269643 | 0.95910418 | 0.58901618 |
| Eml4     | 0.00712191 | 6.15080929 | 0.0026886 | 0.95916355 | 0.58901618 |
| Tunar    | -0.0156301 | 3.21410415 | 0.00268857 | 0.9591638 | 0.58901618 |
| Arpc1a   | 0.00784635 | 6.16045961 | 0.00267976 | 0.95923065 | 0.58901618 |
| Serpинф1 | -0.0150747 | 5.60135265 | 0.00267795 | 0.95924448 | 0.58901618 |
| Yipf5    | -0.0065838 | 5.41711625 | 0.00267201 | 0.95928966 | 0.58901618 |
| Gene       | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   |
|------------|----------|----------|----------|----------|----------|----------|
| Chrna1     | -0.019475| 2.07646178| 0.00266849| 0.95931644| 0.58901618|
| Elk4       | -0.0062659| 6.40798049| 0.00266395| 0.95935101| 0.58901618|
| Impg1      | -0.0328343| 0.27161682| 0.0026203| 0.95968512| 0.58911985|
| Mocs3      | -0.0350049| -0.9356207| 0.00261929| 0.95969285| 0.58911985|
| Aqp11      | 0.01607024| 1.77804299| 0.00261315| 0.95974012| 0.58911985|
| Rn45s      | 0.0118883| 14.5621267| 0.00261051| 0.95976044| 0.58911985|
| 4930539N22 | 0.04034174| 0.71910845| 0.00259269| 0.9598979| 0.58912177|
| Tardbp     | -0.0059073| 7.45746874| 0.00258783| 0.95993544| 0.58912177|
| Pappa      | -0.0237845| 2.78235808| 0.00258673| 0.95994399| 0.58912177|
| Actl6b     | 0.0147359| 3.2826385| 0.002573| 0.96005027| 0.58914028|
| Vps41      | -0.0074304| 7.02432777| 0.00256731| 0.96009445| 0.58914028|
| Usp53      | 0.00680616| 6.92540021| 0.00254906| 0.96023643| 0.5891606|
| Tram1      | 0.00994626| 5.97538072| 0.00254759| 0.96024786| 0.5891606|
| Syce1      | 0.07462743| -2.0044352| 0.00252864| 0.96039587| 0.58921451|
| Akap1      | 0.01178511| 3.33678222| 0.00250475| 0.96058323| 0.58929255|
| Kcnh5      | 0.01044442| 5.78019818| 0.00249699| 0.96064431| 0.58929311|
| Lax1       | 0.05183391| -0.2643545| 0.00247701| 0.96080192| 0.58935289|
| Ripply2    | -0.0342966| -0.3361722| 0.00243201| 0.96115929| 0.58950929|
| Syt5       | 0.00846621| 5.40819515| 0.00242976| 0.96117726| 0.58950929|
| Slc2a10    | 0.02366928| 0.93217711| 0.00241704| 0.96127896| 0.58953475|
| Egflam     | 0.01282682| 3.52709281| 0.00238441| 0.96154094| 0.5896585|
| Ptpdc1     | -0.0066541| 5.41754893| 0.00236046| 0.96173446| 0.58973959|
| Rab3b      | 0.00672626| 5.12020472| 0.00235316| 0.96179359| 0.58973959|
| Tmem147    | 0.01098822| 3.44846783| 0.00234122| 0.96189055| 0.58976213|
| 4930509E16l| -0.0517792| -1.2491604| 0.00232824| 0.96199629| 0.58976449|
| 1700003M02 | 0.03030282| 0.2590926| 0.00232597| 0.96201482| 0.58976449|
| Cplx2      | 0.007811| 9.63292106| 0.00230452| 0.96219019| 0.58983508|
| Mto1       | 0.01039939| 3.51939617| 0.00229361| 0.96227979| 0.5898531|
| Pus3       | 0.01186535| 3.36515777| 0.00228221| 0.96237356| 0.58987366|
| Ankrd66    | 0.07558883| -2.1740184| 0.0022548| 0.96259999| 0.58990517|
| Enpp4      | 0.00950367| 4.28764148| 0.00225351| 0.96261072| 0.58990517|
| Ric3       | 0.00679321| 6.1222974| 0.00225125| 0.96262944| 0.58990517|
| Zcchc9     | 0.00661355| 5.82683185| 0.00223906| 0.96273066| 0.58990517|
| Mrgpre     | -0.0129586| 3.56459171| 0.00223827| 0.96273725| 0.58990517|
| Dars2      | -0.0135459| 3.49596305| 0.00223237| 0.9627863| 0.58990517|
| Cpz        | -0.0592292| -1.0697219| 0.00221634| 0.96292006| 0.5899335|
| Brd4       | -0.0059756| 8.73212684| 0.0022124| 0.962953| 0.5899335|
| Kcnd6      | -0.0077866| 5.85232124| 0.00219969| 0.96305947| 0.58996184|
| Satb2      | 0.00813348| 7.21935707| 0.00217598| 0.96325901| 0.59004717|
| Kcnk4      | 0.02415105| 0.31919566| 0.00216516| 0.96335035| 0.5900662|
| Meis3      | 0.01190118| 3.60716697| 0.00215191| 0.96346261| 0.59009808|
| Itfg1      | 0.00575966| 7.75586571| 0.00211739| 0.96375665| 0.59018836|
| Top1mt     | -0.0113459| 3.13439273| 0.00210946| 0.96382449| 0.59018836|
| Protein   | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 | Value11 | Value12 | Value13 | Value14 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Slc40a1   | 0.01446875 | 2.11802595 | 0.0021033 | 0.96387737 | 0.59018836 |
| Foxp3     | 0.03845343 | -0.7855002 | 0.00210268 | 0.96388262 | 0.59018836 |
| Ttc39c    | 0.01417443 | 2.23883921 | 0.00209628 | 0.96393765 | 0.59018836 |
| Fubp3     | -0.00678 | 5.88427179 | 0.0020856 | 0.96402950 | 0.59018836 |
| F2r       | -0.0120144 | 2.66735324 | 0.00208534 | 0.96403178 | 0.59018836 |
| Spire1    | -0.0077517 | 7.44840204 | 0.00207354 | 0.96413362 | 0.59021382 |
| Vwa5b1    | -0.025954 | 0.4933153 | 0.00206458 | 0.9642111 | 0.59022437 |
| Cbx8      | 0.0292303 | 0.15420196 | 0.00205166 | 0.96432323 | 0.59022711 |
| Exosc5    | -0.0199653 | 0.96836672 | 0.00205018 | 0.96433609 | 0.59022711 |
| Srcpr     | -0.009895 | 6.37658832 | 0.00201463 | 0.96464639 | 0.59030349 |
| Kdm4b     | 0.01163733 | 2.7623584 | 0.00201224 | 0.96466734 | 0.59030349 |
| Csfr1     | -0.0100952 | 3.45706931 | 0.00201082 | 0.96467981 | 0.59030349 |
| Misp      | 0.05042514 | -1.123436 | 0.0020083 | 0.96470194 | 0.59030349 |
| Fam20c    | -0.0151247 | 2.99503013 | 0.00198355 | 0.96491997 | 0.59039173 |
| Ephx2     | -0.0083242 | 3.85688729 | 0.00197827 | 0.96496668 | 0.59039173 |
| Ptpn3     | 0.00752175 | 6.04739918 | 0.00196902 | 0.96504863 | 0.59040498 |
| Ext1      | -0.0055001 | 5.68457115 | 0.00195354 | 0.96518613 | 0.59041958 |
| Htra1     | 0.00957489 | 3.91348664 | 0.00195277 | 0.96519304 | 0.59041958 |
| Zfp868    | -0.0083981 | 4.89066314 | 0.00192631 | 0.96542951 | 0.59042552 |
| Nit1      | 0.01028366 | 2.91999726 | 0.00192628 | 0.96542976 | 0.59042552 |
| Rasgef1a  | 0.0067965 | 6.81493714 | 0.00192416 | 0.96544876 | 0.59042552 |
| Atp6v0c-ps2 | 0.02656512 | -0.3216039 | 0.00192149 | 0.96547278 | 0.59042552 |
| Nat1      | -0.0187695 | 2.09121257 | 0.00191252 | 0.96555337 | 0.59042552 |
| Rbm47     | -0.0090717 | 4.57140377 | 0.00191129 | 0.96556441 | 0.59042552 |
| Cog3      | -0.0065521 | 5.52673204 | 0.00187544 | 0.96588875 | 0.59056943 |
| Camkk1    | -0.0090647 | 4.88035327 | 0.00187196 | 0.96592034 | 0.59056943 |
| Grp1      | -0.0405227 | -1.7128194 | 0.00186142 | 0.96601638 | 0.59059129 |
| Nek11     | 0.02347313 | 0.02576182 | 0.00183151 | 0.96629034 | 0.59072191 |
| Dao       | 0.07764985 | -1.5808403 | 0.00181919 | 0.9664038 | 0.59072681 |
| Zfp711    | -0.0100902 | 4.20917401 | 0.00181275 | 0.96646332 | 0.59072681 |
| Lamb1     | 0.0074262 | 4.17024606 | 0.00181102 | 0.96647928 | 0.59072681 |
| Lurap1l   | 0.01088963 | 2.60578454 | 0.00180151 | 0.96656737 | 0.59074379 |
| Dpp4      | -0.0134516 | 5.50219731 | 0.00179186 | 0.96665699 | 0.59076171 |
| Zfp646    | 0.00841787 | 3.74038985 | 0.0017841 | 0.96672924 | 0.590769 |
| Arfrp1    | 0.00929888 | 3.99464723 | 0.0017716 | 0.96684587 | 0.59078269 |
| Gabrd     | 0.01521383 | 2.84095757 | 0.00176237 | 0.96693229 | 0.59078269 |
| Hist1h2ai | 0.03607583 | -1.5684036 | 0.00176234 | 0.96693258 | 0.59078269 |
| Al593442  | 0.00582189 | 8.70047291 | 0.00175424 | 0.96700861 | 0.5907923 |
| Ston2     | -0.0097575 | 4.6411271 | 0.0017426 | 0.96711821 | 0.5908224 |
| Timm10    | 0.01177999 | 3.84783903 | 0.00173499 | 0.96719004 | 0.59082944 |
| Prkar2b   | -0.0057113 | 5.63127322 | 0.00168314 | 0.96768371 | 0.5910395 |
| Mkln1     | -0.0066918 | 6.15447147 | 0.00167187 | 0.96779208 | 0.5910395 |
| Stard5    | 0.01291819 | 3.55374453 | 0.00166987 | 0.9678113 | 0.5910395 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Cdk9   | 0.00720032 | 4.38479661 | 0.00166857 | 0.96782378 | 0.5910395 |
| Arhgef5 | 0.00981585 | 5.78450739 | 0.00165578 | 0.96794732 | 0.5910395 |
| Pex3   | -0.006407 | 5.12396252 | 0.00165456 | 0.9679591 | 0.5910395 |
| Sharpin | 0.00856394 | 3.8065174 | 0.00165174 | 0.96798645 | 0.5910395 |
| Gm15708 | 0.04011665 | -1.0342753 | 0.00164448 | 0.96805685 | 0.5910395 |
| Pbx1   | 0.00470122 | 9.2799897 | 0.00163683 | 0.96813116 | 0.5910395 |
| Cdln2c | 0.01548519 | 2.73098207 | 0.00163312 | 0.96816725 | 0.5910395 |
| Klhl40 | -0.0278994 | 0.1157573 | 0.0016176 | 0.96831876 | 0.5910395 |
| Osgepl1 | 0.00773665 | 4.77018591 | 0.00161201 | 0.96837351 | 0.5910395 |
| Bad    | -0.0174381 | 2.66095758 | 0.00160942 | 0.96839891 | 0.5910395 |
| Fuz    | -0.0227942 | 0.47719722 | 0.00160401 | 0.96845213 | 0.5910395 |
| Znym4  | 0.00554273 | 7.67947104 | 0.00159463 | 0.96854443 | 0.5910395 |
| Gja4   | 0.02693817 | -0.5079181 | 0.00158242 | 0.96866504 | 0.5910395 |
| Hc     | 0.08354801 | -1.9135058 | 0.0015696 | 0.96879216 | 0.5910395 |
| Lysmd2 | 0.00635108 | 4.50476051 | 0.00156662 | 0.96882175 | 0.5910395 |
| Mtss1  | -0.0066664 | 6.68507177 | 0.00155887 | 0.96889895 | 0.5910395 |
| Mapk8  | -0.0060288 | 7.5751734 | 0.00155675 | 0.96892011 | 0.5910395 |
| Parp4  | -0.0057564 | 5.70580261 | 0.00155375 | 0.96894998 | 0.5910395 |
| Fn1    | -0.0103933 | 8.00392047 | 0.00155166 | 0.96897083 | 0.5910395 |
| Pnck   | 0.00692941 | 3.71850949 | 0.00155004 | 0.96898706 | 0.5910395 |
| Exoc7  | 0.00661855 | 4.63607834 | 0.00154307 | 0.96905684 | 0.5910395 |
| Slc19a2 | -0.0093565 | 3.68181895 | 0.00153486 | 0.96913923 | 0.5910395 |
| Kctd12 | -0.0044428 | 7.42126274 | 0.00153457 | 0.96914219 | 0.5910395 |
| 4933439C10I | 0.01491444 | 1.82049563 | 0.00153249 | 0.96916306 | 0.5910395 |
| Phf6   | -0.0050654 | 5.27930574 | 0.00152605 | 0.96922786 | 0.59104222 |
| Spata45 | -0.045218 | -0.5529667 | 0.0014812 | 0.96968323 | 0.59126625 |
| Slc7a7 | -0.0216444 | 1.12585442 | 0.001478 | 0.96971596 | 0.59126625 |
| Snx32  | 0.00715057 | 4.27697155 | 0.00146202 | 0.96988006 | 0.5913295 |
| 1810044D09 | 0.03529324 | -1.5291417 | 0.00144845 | 0.97002004 | 0.59137803 |
| Tor1a  | -0.0098547 | 2.96947977 | 0.00143106 | 0.97020049 | 0.59142696 |
| Magi1  | -0.0066089 | 6.35945009 | 0.00142908 | 0.97022106 | 0.59142696 |
| Ogn    | 0.00917164 | 8.11652656 | 0.00141081 | 0.97041196 | 0.59150652 |
| Dtx4   | -0.0057304 | 5.31482988 | 0.00140034 | 0.9705219 | 0.59153673 |
| Ehhadh | 0.01606534 | 1.10449656 | 0.00139158 | 0.97061416 | 0.59155615 |
| Clec3b | -0.0193107 | 0.90492489 | 0.00138129 | 0.97072306 | 0.59156017 |
| Adam11 | -0.0102304 | 3.57860668 | 0.00137954 | 0.97074155 | 0.59156017 |
| Fam49a | -0.0048649 | 8.23706648 | 0.00137057 | 0.97083674 | 0.59158138 |
| Pcbp1  | -0.0054763 | 5.75618372 | 0.0013502 | 0.97105417 | 0.59163479 |
| Ezr    | 0.00497972 | 6.23592406 | 0.00134105 | 0.97115237 | 0.59163479 |
| Mtch2  | -0.0044397 | 5.59819807 | 0.00133717 | 0.97119416 | 0.59163479 |
| Lypd2  | -0.0222634 | 1.82578607 | 0.00133707 | 0.97119524 | 0.59163479 |
| Csnk1e | -0.0055202 | 6.14590417 | 0.00133286 | 0.97124058 | 0.59163479 |
| Zfp628 | -0.0110404 | 2.2903361 | 0.00132858 | 0.97128679 | 0.59163479 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 | Value10 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Smcp2  | 0.01141416 | 2.31042198 | 0.00129493 | 0.97165259 | 0.59177171 |
| Zfp131 | 0.00599055 | 5.28940919 | 0.00129271 | 0.97167683 | 0.59177171 |
| Nrg1   | 0.00972305 | 3.36162218 | 0.00129125 | 0.97169281 | 0.59177171 |
| Brap   | 0.00564812 | 5.40008628 | 0.00127174 | 0.97190742 | 0.59186561 |
| Tpst2  | -0.0099333 | 2.1402579 | 0.00125368 | 0.97210752 | 0.59195066 |
| Cyp2s1 | 0.01226856 | 3.8419522 | 0.00123436 | 0.97232313 | 0.59204515 |
| Zc3h12b| 0.0053677 | 5.05571314 | 0.00119914 | 0.97272077 | 0.59225046 |
| Xpc    | 0.00677423 | 3.9902574 | 0.00118064 | 0.97293193 | 0.5923422 |
| Mark4  | -0.0071435 | 3.63180136 | 0.00116384 | 0.97312502 | 0.59242294 |
| Col8a2 | 0.01482694 | 2.09764553 | 0.0011448 | 0.97334577 | 0.59242384 |
| Fam219aos | 0.01029364 | 3.09071208 | 0.00113945 | 0.97340808 | 0.59242384 |
| Sgo1   | -0.0166545 | 0.8431864 | 0.00113807 | 0.97342418 | 0.59242384 |
| Pold2  | -0.0139169 | 2.57042042 | 0.00112562 | 0.97356988 | 0.59242384 |
| Mterfd3| -0.0085692 | 2.97547655 | 0.00112446 | 0.97358344 | 0.59242384 |
| Rasge1c| 0.00815235 | 3.5194525 | 0.00111491 | 0.9736959 | 0.59242384 |
| Mcn1   | -0.008896 | 2.98666999 | 0.00110874 | 0.97376876 | 0.59242384 |
| Apbb1ip | -0.0081675 | 3.19513467 | 0.00110413 | 0.97382325 | 0.59242384 |
| Cxcl9  | 0.03308562 | -0.5124598 | 0.0010988 | 0.97388647 | 0.59242384 |
| Nudt16 | 0.00634065 | 4.68686686 | 0.00109711 | 0.97390661 | 0.59242384 |
| Mri1   | -0.0134585 | 1.14525126 | 0.00109218 | 0.97396529 | 0.59242384 |
| Fam109b| -0.0202883 | 1.55754912 | 0.00109162 | 0.97397198 | 0.59242384 |
| Gm13051| 0.03224198 | -1.3911024 | 0.00108791 | 0.97401621 | 0.59242384 |
| Golph3I| -0.0059082 | 5.99608675 | 0.00108652 | 0.97403282 | 0.59242384 |
| Ttc7b  | 0.00591935 | 8.19378473 | 0.00108644 | 0.97403369 | 0.59242384 |
| Ccdc97 | 0.00518273 | 5.32492824 | 0.00108183 | 0.97486295 | 0.59285759 |
| Opn1sw | 0.02900694 | 4.06820701 | 0.00107737 | 0.9748679 | 0.59285759 |
| Galnt9 | -0.0058951 | 4.68290137 | 0.00100124 | 0.97507227 | 0.5928594 |
| Tdgf1  | 0.04161764 | -0.1595847 | 0.00098817 | 0.97523551 | 0.5928594 |
| Pdik1  | -0.0059624 | 3.96548955 | 0.00098732 | 0.9752461 | 0.5928594 |
| Ccl28  | 0.0132003 | 1.68767328 | 0.00098371 | 0.97529137 | 0.5928594 |
| Cyp4v3 | -0.0081337 | 4.68104747 | 0.0009808 | 0.97532803 | 0.5928594 |
| Erc2   | 0.00560274 | 8.10052414 | 0.00098023 | 0.97533511 | 0.5928594 |
| Pnpla8 | -0.0039914 | 6.88366748 | 0.00097467 | 0.97540522 | 0.5928594 |
| Slc52a3| -0.0129595 | 1.79376373 | 0.00097119 | 0.97544916 | 0.5928594 |
| Pik3r5 | 0.00737495 | 2.80084635 | 0.00096346 | 0.97554692 | 0.5928594 |
| Ccser2 | 0.00374747 | 8.27618302 | 0.000951 | 0.97570561 | 0.5928594 |
| Epst1  | 0.01640058 | 1.15801116 | 0.00094979 | 0.97572105 | 0.5928594 |
| Foxg1  | 0.00508154 | 6.13935789 | 0.00094973 | 0.97572178 | 0.5928594 |
| Gm16532| -0.021003 | 1.04913494 | 0.00094639 | 0.97576447 | 0.5928594 |
| 2610316D01 | -0.0111009 | 2.20637587 | 0.00094419 | 0.97579263 | 0.5928594 |
| Mdh1b  | -0.0337483 | -1.1226519 | 0.00093979 | 0.97584913 | 0.5928594 |
| Fabp4  | 0.02094177 | -0.6828978 | 0.0009389 | 0.97586057 | 0.5928594 |
| Zxdc   | 0.00451367 | 5.4891973 | 0.00093391 | 0.97592479 | 0.5928594 |
| Gene   | Value1 | Value2 | Value3 | Value4 | Value5 | Value6 | Value7 | Value8 | Value9 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Tmem79 | -0.0356218 | -0.2191697 | 0.00093088 | 0.97596387 | 0.5928594 |
| Dhx16  | 0.00851113 | 2.95949162 | 0.00092618 | 0.97602457 | 0.5928594 |
| Pomk   | -0.00518 | 4.76491231 | 0.00092118 | 0.97608137 | 0.5928594 |
| Slc7a8 | 0.00549963 | 5.5378534 | 0.00091168 | 0.97621291 | 0.59286091 |
| 251009E071 | 0.00410186 | 6.8544813 | 0.00091064 | 0.97622653 | 0.59286091 |
| Tceanc2 | -0.0045364 | 4.63246054 | 0.00090368 | 0.9763175 | 0.59286091 |
| Mrps22 | 0.00438883 | 4.40300888 | 0.00090303 | 0.97632595 | 0.59286091 |
| Fam3a  | 0.00610364 | 3.56031125 | 0.00084899 | 0.97704628 | 0.59320444 |
| Gm11517 | 0.02277671 | -1.0909567 | 0.00084727 | 0.97706832 | 0.59320444 |
| Zfp933  | -0.0052642 | 4.53456843 | 0.00084478 | 0.97710211 | 0.59320444 |
| Nduf4f4 | 0.0042901 | 5.76558867 | 0.00084243 | 0.97713391 | 0.59320444 |
| Arr3   | -0.0325843 | -1.161148 | 0.00083786 | 0.97719594 | 0.59320533 |
| D330045A20 | 0.01603982 | -0.0948508 | 0.0008328 | 0.97726492 | 0.59321044 |
| Atp6vod2 | -0.0323385 | 0.3918407 | 0.00082603 | 0.97735745 | 0.59322984 |
| Gpr153 | 0.00788858 | 3.00274264 | 0.00081835 | 0.97746298 | 0.59323508 |
| Mrpl4  | -0.0065756 | 4.75516618 | 0.00081659 | 0.9774872 | 0.59323508 |
| Ppp1r35 | 0.01065516 | 1.49108591 | 0.0008102 | 0.97757552 | 0.59325192 |
| Psd4   | -0.0184492 | 0.02147733 | 0.00079869 | 0.97773526 | 0.59328636 |
| Naaa   | -0.0069417 | 3.92316073 | 0.00079739 | 0.97775341 | 0.59328636 |
| 6720468p151 | 0.0364975 | -0.4914859 | 0.00076189 | 0.97825413 | 0.59352028 |
| Maf    | 0.00496948 | 7.20796103 | 0.00076147 | 0.97826009 | 0.59352028 |
| E230016k231 | 0.02675472 | -0.708949 | 0.00075187 | 0.97839747 | 0.59356686 |
| Nek8   | 0.01670432 | 1.27127554 | 0.0007421 | 0.9785383 | 0.59361553 |
| Ctsd   | -0.0068698 | 7.20349076 | 0.00073428 | 0.97865165 | 0.59364753 |
| Ccdc73 | 0.00718772 | 3.33422071 | 0.00072383 | 0.97880403 | 0.5937032 |
| Synb   | -0.0205265 | -0.6087097 | 0.00071547 | 0.97892686 | 0.59373083 |
| Efcab1 | -0.0062939 | 3.56238764 | 0.00070803 | 0.97903665 | 0.59373083 |
| Gbp5   | -0.0124947 | 2.13971357 | 0.00070722 | 0.97904869 | 0.59373083 |
| BC053749 | -0.0099546 | 2.84818733 | 0.00070429 | 0.97909204 | 0.59373083 |
| Tmem29 | -0.0032442 | 4.81473657 | 0.00069845 | 0.9791783 | 0.59374671 |
| Atp8b1 | 0.00756353 | 2.4639012 | 0.00068837 | 0.9793296 | 0.59379144 |
| Csrp1  | 0.00633534 | 7.56769806 | 0.00068543 | 0.97937384 | 0.59379144 |
| Rin3   | -0.0067944 | 4.36278488 | 0.00065612 | 0.9798196 | 0.59398785 |
| Fbxl19 | 0.00597282 | 3.63288 | 0.00065601 | 0.97982125 | 0.59398785 |
| Impg2  | 0.03760976 | -0.3888372 | 0.00065221 | 0.97987971 | 0.59398785 |
| Coq9   | 0.00485605 | 4.37311304 | 0.00064294 | 0.98002328 | 0.59403811 |
| Reep1  | -0.0040612 | 6.96590109 | 0.00063228 | 0.98018946 | 0.59407274 |
| 4933424g06 | 0.0183811 | 0.47933401 | 0.0006315 | 0.9802017 | 0.59407274 |
| Adssl1 | 0.0073022 | 2.68975469 | 0.00061728 | 0.98042589 | 0.59412719 |
| BC031361 | -0.0069127 | 2.8200458 | 0.00061218 | 0.98050686 | 0.59412719 |
| B3gnt2 | -0.0043516 | 5.73961934 | 0.00060973 | 0.98054593 | 0.59412719 |
| Mpzl2 | -0.0053159 | 7.15656014 | 0.00060783 | 0.98057624 | 0.59412719 |
| Map3k14 | -0.0108922 | 1.77007305 | 0.00060667 | 0.98059482 | 0.59412719 |
| Gene            | 02-Sep   | 0.00425907 | 4.98101848 | 0.00059197 | 0.98083119 | 0.59422234 |
|-----------------|----------|------------|------------|------------|------------|------------|
| Evi5            | 0.0028005 | 7.79948001 | 0.00058938 | 0.98087318 | 0.59422234 |
| Wdr18           | 0.00396583 | 3.64050136 | 0.00057936 | 0.98103644 | 0.59428449 |
| LOC1000389      | 0.04125728 | -1.5510624 | 0.00057419 | 0.98112133 | 0.59429916 |
| Commd1          | 0.00625686 | 4.15830275 | 0.00056418 | 0.98128651 | 0.59431777 |
| Cxcl11          | 0.10453438 | -2.3691744 | 0.00056413 | 0.98128726 | 0.59431777 |
| Lrsam1          | -0.0060384 | 3.61904986 | 0.00056131 | 0.98133408 | 0.59431777 |
| Prmt1           | 0.00751224 | 2.8682413 | 0.00055756 | 0.98139668 | 0.59431894 |
| 1700027H10      | 0.0146373 | 0.39054886 | 0.00055003 | 0.98152256 | 0.59432548 |
| Fmrnl2          | 0.00323646 | 8.09144302 | 0.00054966 | 0.98152883 | 0.59432548 |
| Zfp365          | 0.00431213 | 9.10482669 | 0.00054451 | 0.98161551 | 0.59434123 |
| Cd276           | 0.00743865 | 2.49201803 | 0.00053617 | 0.98175691 | 0.5943901 |
| Gm5468          | -0.0118436 | 1.88273939 | 0.00051783 | 0.98207151 | 0.59453131 |
| Pbrm1           | 0.00248809 | 7.48916556 | 0.00051288 | 0.98215744 | 0.59453131 |
| U2af1           | -0.0043935 | 4.10283801 | 0.00051203 | 0.98217224 | 0.59453131 |
| Fabp7           | 0.00449102 | 4.52045423 | 0.00050468 | 0.98230053 | 0.59457223 |
| Fam63a          | 0.00621602 | 4.35498773 | 0.00050119 | 0.98236195 | 0.59457266 |
| Prdm15          | 0.00562849 | 3.40894954 | 0.00048731 | 0.98260784 | 0.59457697 |
| Slc38a2         | -0.00583 | 9.37180083 | 0.00048646 | 0.98262303 | 0.59457697 |
| Chst8           | 0.01153946 | 0.65193605 | 0.0004855 | 0.98264009 | 0.59457697 |
| Pdlim7          | 0.00391252 | 4.32830393 | 0.00048063 | 0.98272742 | 0.59457697 |
| 5430405H02      | -0.008599 | 1.41100039 | 0.00047979 | 0.98274247 | 0.59457697 |
| Rae1            | -0.004033 | 3.83274446 | 0.00047838 | 0.98276794 | 0.59457697 |
| Islr2           | -0.0059709 | 2.79239509 | 0.00047693 | 0.98279396 | 0.59457697 |
| Fam71e1         | 0.01128394 | 0.25455267 | 0.00046259 | 0.98305453 | 0.59469788 |
| Utp6            | -0.0029522 | 6.67201553 | 0.00045253 | 0.98323999 | 0.59473811 |
| Mkl1            | -0.0027402 | 5.55924494 | 0.00045166 | 0.983256 | 0.59473811 |
| Cdon            | -0.0051114 | 5.1561861 | 0.00044456 | 0.98338812 | 0.59473811 |
| Caln1           | -0.0037271 | 4.57744271 | 0.00044001 | 0.98347331 | 0.59473811 |
| Cers2           | -0.0045423 | 6.07253664 | 0.00043502 | 0.9835673 | 0.59473811 |
| Mmp11           | -0.012163 | 1.13783293 | 0.00043404 | 0.98358577 | 0.59473811 |
| Enpp1           | -0.0055587 | 5.34493005 | 0.00043315 | 0.98360258 | 0.59473811 |
| Iqcc            | -0.00675 | 2.65551747 | 0.00043293 | 0.98360677 | 0.59473811 |
| Fam115c         | -0.009762 | 1.3926034 | 0.00041872 | 0.98387808 | 0.59482961 |
| Ndufaf7         | 0.00308667 | 4.55722598 | 0.00041864 | 0.98387954 | 0.59482961 |
| Ned1            | -0.0060764 | 2.72720241 | 0.00041326 | 0.98398339 | 0.59485567 |
| Trdmt1          | -0.0066097 | 2.84535639 | 0.00040581 | 0.98412835 | 0.59488795 |
| Gm10440         | -0.062754 | -1.531503 | 0.00040429 | 0.98415823 | 0.59488795 |
| Phf23           | 0.00393085 | 4.64131352 | 0.00039111 | 0.98441854 | 0.59500858 |
| Pdp1            | 0.00320183 | 7.11894952 | 0.00038486 | 0.98453555 | 0.59501839 |
| Slamf7          | -0.0104998 | 1.12128087 | 0.00038422 | 0.98455627 | 0.59501839 |
| Egln2           | 0.00472903 | 4.09706298 | 0.00037657 | 0.98471094 | 0.59507515 |
| 02-Sep          | -0.0027061 | 7.89735262 | 0.00036831 | 0.98487954 | 0.59514032 |
| Gene     | Value1  | Value2  | Value3  | Value4  | Value5  |
|----------|---------|---------|---------|---------|---------|
| B3galt6  | 0.00691135 | 2.33602443 | 0.0003607 | 0.98503646 | 0.59519842 |
| Spg7     | -0.0046607 | 3.55351131 | 0.00034777 | 0.98530698 | 0.59531161 |
| Ksr1     | 0.00372086 | 3.86342717 | 0.0003452 | 0.98536136 | 0.59531161 |
| Csm2os   | 0.01550711 | -0.3659152 | 0.0003431 | 0.9854061 | 0.59531161 |
| Mettl7a2 | -0.0057433 | 1.73110516 | 0.00032865 | 0.98571661 | 0.59546247 |
| Gnl1     | 0.00292987 | 5.89680834 | 0.00032136 | 0.98587582 | 0.59552192 |
| LOC1005036| -0.0053964 | 3.67730937 | 0.00031225 | 0.98607744 | 0.59560698 |
| Fgf14    | 0.00233761 | 6.28372255 | 0.00030733 | 0.98618762 | 0.59563671 |
| Eift2d   | 0.00397264 | 3.93549472 | 0.00030464 | 0.98624828 | 0.59563671 |
| Iqch     | 0.01402822 | -0.5441629 | 0.00029773 | 0.98640513 | 0.59567003 |
| Aebp2    | 0.00198622 | 6.84929857 | 0.00029685 | 0.98642507 | 0.59567003 |
| Gpnmb    | -0.0112241 | 1.08924575 | 0.00028219 | 0.98676463 | 0.59574746 |
| Il15     | 0.00607746 | 1.90573341 | 0.00027816 | 0.98685936 | 0.59574746 |
| Ddx41    | -0.0036084 | 3.8831311 | 0.00027787 | 0.98686633 | 0.59574746 |
| Snhg10   | -0.0080329 | 0.7763282 | 0.000276 | 0.98691061 | 0.59574746 |
| 01-Sep   | 0.00613385 | 2.38936797 | 0.00027549 | 0.98692264 | 0.59574746 |
| Slc35e1  | 0.00301338 | 4.92752732 | 0.00027234 | 0.98699764 | 0.59574746 |
| 4921524J17F | 0.00536258 | 4.04418156 | 0.00027211 | 0.98700302 | 0.59574746 |
| 3110039M2C | 0.00719507 | 2.13060271 | 0.00027057 | 0.98703984 | 0.59574746 |
| E230029C05I | -0.0094891 | 0.54626243 | 0.00026492 | 0.98717589 | 0.5957883 |
| Apoe     | 0.00530992 | 6.97856543 | 0.00026269 | 0.98723004 | 0.5957883 |
| Mul1     | -0.00357 | 3.14208276 | 0.00025143 | 0.98750678 | 0.59585669 |
| Htr1f    | 0.006477 | 1.8051509 | 0.0002481 | 0.98758961 | 0.59585669 |
| S1pr3    | -0.0035214 | 3.33109425 | 0.00024573 | 0.9876491 | 0.59585669 |
| Kcne1l   | 0.02068091 | -1.2949601 | 0.00024296 | 0.98771883 | 0.59585669 |
| Tbc1d31  | -0.0033204 | 3.31663818 | 0.00023854 | 0.98783114 | 0.59585669 |
| Degs1    | 0.00293666 | 6.56259852 | 0.00023842 | 0.98783404 | 0.59585669 |
| Bcl11a   | 0.00222805 | 6.56535469 | 0.0002383 | 0.98783722 | 0.59585669 |
| Card11   | 0.01168811 | -1.0961286 | 0.00023717 | 0.98786608 | 0.59585669 |
| A730046J19f | -0.0096175 | 0.59754944 | 0.00023606 | 0.98789457 | 0.59585669 |
| Cxadr    | 0.00342188 | 6.56603292 | 0.00023387 | 0.98795079 | 0.59585669 |
| 1700029I15R | 0.01206726 | -0.841606 | 0.00022543 | 0.9881703 | 0.59593677 |
| Mark1    | 0.00197325 | 5.97795323 | 0.0002241 | 0.98820524 | 0.59593677 |
| BC003331 | -0.0018223 | 6.91312747 | 0.00022114 | 0.98828338 | 0.5959472 |
| Ptgrd    | -0.0035207 | 5.28157991 | 0.00020926 | 0.98860227 | 0.5961028 |
| Accs     | -0.0042216 | 2.8710364 | 0.00020403 | 0.98874556 | 0.5961525 |
| Cdh19    | 0.00653087 | 1.52153738 | 0.00019378 | 0.98903203 | 0.59623175 |
| Sbn2o    | 0.00454206 | 1.71964168 | 0.00019357 | 0.98903787 | 0.59623175 |
| Skint3   | 0.00678147 | 1.16596641 | 0.00018932 | 0.98915888 | 0.59623175 |
| Gm6297   | -0.0084046 | 1.00891899 | 0.00018875 | 0.98917528 | 0.59623175 |
| Mtmr10   | 0.00227643 | 4.27423478 | 0.00018762 | 0.9892078 | 0.59623175 |
| 5430402O13 | -0.0102867 | -0.5565172 | 0.00018279 | 0.98934756 | 0.59623175 |
| Rgs7     | -0.002083 | 7.1722786 | 0.00018239 | 0.98935905 | 0.59623175 |
| Gene   | Value1   | Value2   | Value3   | Value4   | Value5   | Value6   | Value7   | Value8   | Value9   | Value10  | Value11  | Value12  | Value13  | Value14  | Value15  | Value16  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| H2-Ab1 | 0.00538118| 4.25397424| 0.00018223| 0.98936394| 0.59623175|
| Aim1l  | -0.0098651| -0.2877581| 0.00017522| 0.98957036| 0.59626962|
| Fam69b | 0.00382526| 3.04810245| 0.00017391| 0.98960936| 0.59626962|
| Adck2  | 0.00366298| 2.23540847| 0.00017225| 0.98965919| 0.59626962|
| Tbc1d20| -0.0030008| 4.21044894| 0.00016983| 0.98973196| 0.59626962|
| Gas6   | -0.0023098| 4.3991346| 0.00016559| 0.98986096| 0.59626962|
| Rad51c | -0.0055143| 1.97713349| 0.00016519| 0.98987341| 0.59626962|
| Snhg7  | -0.0048546| 1.28793666| 0.00016372| 0.98991856| 0.59626962|
| Cep68  | -0.0023181| 5.00342122| 0.00001626| 0.98996363| 0.59626962|
| Rnf122 | -0.0071126| 0.02224621| 0.00001619| 0.98997465| 0.59626962|
| A330069E16| 0.00544734| 0.70240005| 0.00015627| 0.99015051| 0.59629284|
| St3gal6| 0.00254316| 4.08416693| 0.00015526| 0.99018237| 0.59629284|
| Lect1  | 0.01159064| -0.5496984| 0.00015483| 0.99019581| 0.59629284|
| Arhgap6| 0.00221199| 4.73769687| 0.00015203| 0.99028506| 0.59630992|
| Mvb12b | 0.00159523| 6.44063794| 0.00014735| 0.99043581| 0.59632214|
| Kdr    | 0.00293779| 2.63592826| 0.00014698| 0.99044764| 0.59632214|
| Lilrb4 | 0.00729199| 0.43241615| 0.00014574| 0.99048799| 0.59632214|
| Thrap3 | -0.0014322| 7.46786872| 0.00013999| 0.99067775| 0.59639973|
| Capn12 | -0.0093281| 0.7080199| 0.00013492| 0.99084784| 0.59644357|
| Zdhhc9 | -0.0017241| 6.30578159| 0.0001342| 0.99087236| 0.59644357|
| Bend7  | -0.0049678| 0.64875533| 0.00012459| 0.99120256| 0.5965916|
| A430005L141| -0.0030851| 2.80963571| 0.00012306| 0.99125936| 0.5965916|
| Gtf2a1 | -0.0012843| 6.99718016| 0.00012189| 0.991301 | 0.5965916|
| Mterfd1| -0.0018565| 5.07451548| 0.00011262| 0.99163836| 0.59675037|
| Acvrl1 | 0.00515269| 0.83253302| 0.00011132| 0.99168644| 0.59675037|
| Mycbbap| 0.004842 | 0.72901751| 0.00010359| 0.99198079| 0.5968907|
| Abca4  | 0.0038508| 3.09333688| 0.00010126| 0.9920712| 0.59690843|
| Zbtb46 | 0.00438971| 1.31475956| 9.43E-05| 0.99234889| 0.59702321|
| Temp2  | 0.00159921| 8.97279797| 9.34E-05| 0.99238385| 0.59702321|
| Car8   | -0.0027601| 2.79708353| 8.74E-05| 0.99263561| 0.59703457|
| Tbx15  | 0.00217547| 6.7955854| 8.72E-05| 0.99264261| 0.59703457|
| Ube2c1 | 0.00153056| 6.92626022| 8.56E-05| 0.99271125| 0.59703457|
| Sptlc1 | 0.0016732| 3.62416493| 8.45E-05| 0.99275904| 0.59703457|
| Rbm48  | 0.00173124| 3.43229954| 8.33E-05| 0.99280994| 0.59703457|
| Nupl1  | -0.0012626| 6.08892636| 8.31E-05| 0.99281946| 0.59703457|
| H1430018G01| 0.001487 | -1.5023933| 8.28E-05| 0.9928294| 0.59703457|
| Plvap  | 0.00440122| 0.6205832| 7.40E-05| 0.99322284| 0.59714069|
| Amn    | -0.005223 | -0.2705762| 7.23E-05| 0.99330057| 0.59714069|
| Phgdh  | 0.00273885| 2.53464317| 7.16E-05| 0.99333516| 0.59714069|
| Xiap   | 0.00123805| 7.12351358| 7.09E-05| 0.99336488| 0.59714069|
| Zbtbd6 | -0.0079255| 0.54639363| 6.81E-05| 0.9934957| 0.59714069|
| Schip1 | 0.00162506| 3.86375504| 6.73E-05| 0.99353688| 0.59714069|
| Hist1h2bp| 0.00682244| -0.7282023| 6.72E-05| 0.99354127| 0.59714069|
| Gene  | Value1  | Value2  | Value3  | Value4  | Value5  | Value6  | Value7  | Value8  | Value9  | Value10 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Bola1 | -0.0028998 | 1.69514703 | 6.68E-05 | 0.99356083 | 0.59714069 |
| Usf2  | -0.0012175 | 4.98736857 | 6.60E-05 | 0.99359651 | 0.59714069 |
| Tbcel | 0.00138204 | 5.2480881 | 6.57E-05 | 0.99361549 | 0.59714069 |
| 2610002J02 | 0.00272084 | 3.24413391 | 6.27E-05 | 0.99376195 | 0.59716145 |
| Ino80b | -0.0045224 | -0.0544744 | 6.25E-05 | 0.99377196 | 0.59716145 |
| 6330418K02 | -0.00349 | 1.11067126 | 6.00E-05 | 0.99389497 | 0.59719873 |
| Trim52 | 0.00632594 | -1.6565991 | 5.24E-05 | 0.99429584 | 0.59740296 |
| Fam26f | 0.0042893 | 1.22710449 | 4.98E-05 | 0.99443936 | 0.59742713 |
| Usp8  | -0.0007544 | 7.66784425 | 4.95E-05 | 0.99445806 | 0.59742713 |
| Gm1653 | 0.00678642 | 0.50863292 | 4.74E-05 | 0.99457262 | 0.59745931 |
| Gm12216 | -0.0055916 | -0.754129 | 4.58E-05 | 0.99466801 | 0.5974997 |
| Rbm28 | 0.00106403 | 4.98405403 | 3.91E-05 | 0.99507102 | 0.59763235 |
| Thap3  | -0.0025025 | 2.29989503 | 3.80E-05 | 0.99514279 | 0.59763235 |
| Dhx38  | 0.0010753 | 4.56252447 | 3.78E-05 | 0.99515429 | 0.59763235 |
| Utp23  | -0.0011268 | 4.38435016 | 3.72E-05 | 0.99519559 | 0.59763235 |
| Prodh  | 0.00190915 | 2.14169972 | 3.62E-05 | 0.99525688 | 0.59763235 |
| Plk1   | 0.01064505 | -0.9043404 | 3.58E-05 | 0.99528775 | 0.59763235 |
| Fcho2  | 0.0008514 | 6.99913835 | 3.26E-05 | 0.99550111 | 0.59772382 |
| Mob1b  | -0.0007805 | 5.1918482 | 3.06E-05 | 0.99564151 | 0.59776856 |
| Nfyc   | -0.0010375 | 4.60424449 | 2.98E-05 | 0.99569767 | 0.59776856 |
| Pxmp2  | 0.00143281 | 2.49324457 | 2.77E-05 | 0.99584963 | 0.59781348 |
| Ccne1  | 0.00176285 | 1.77384286 | 2.71E-05 | 0.99589455 | 0.59781348 |
| 4933426M11 | -0.0009242 | 5.71371529 | 2.62E-05 | 0.99596464 | 0.59781891 |
| Anks6  | 0.00144079 | 2.0881777 | 2.47E-05 | 0.99608434 | 0.59785413 |
| Zfp449 | 0.00099829 | 5.20703437 | 2.12E-05 | 0.99637284 | 0.59790064 |
| Mnd1   | -0.003123 | 0.36796527 | 1.97E-05 | 0.99650366 | 0.59801186 |
| Socs7  | 0.0006661 | 6.96844492 | 1.87E-05 | 0.99658982 | 0.59801186 |
| Snrnp48 | 0.00068687 | 4.90671398 | 1.87E-05 | 0.99659135 | 0.59801186 |
| Pxn3b  | -0.0016015 | 2.04041531 | 1.47E-05 | 0.99697464 | 0.59820521 |
| Zfpm1  | 0.00098212 | 1.76314135 | 1.08E-05 | 0.99740808 | 0.59838733 |
| Adra1b | 0.00070541 | 3.92520741 | 1.06E-05 | 0.99743328 | 0.59838733 |
| Kansl3 | 0.00045166 | 5.88337963 | 9.94E-06 | 0.99751558 | 0.59838733 |
| Igfbp6 | -0.0009485 | 4.92640641 | 9.89E-06 | 0.99752251 | 0.59838733 |
| Pcsk9  | -0.0010195 | -0.0783968 | 8.03E-06 | 0.99776778 | 0.59849781 |
| Hdhd3  | -0.0014847 | 0.2830346 | 5.24E-06 | 0.99819634 | 0.5986993 |
| Ttc16  | -0.0013465 | -1.5557674 | 4.79E-06 | 0.99827619 | 0.5986993 |
| Gtl3   | 0.00030315 | 4.59835817 | 4.78E-06 | 0.99827705 | 0.5986993 |
| Smg9   | 0.00060792 | 2.90670721 | 4.33E-06 | 0.99836095 | 0.59869957 |
| Med9os | 0.00362416 | -1.163347 | 3.97E-06 | 0.99843043 | 0.59869957 |
| Ntn4   | 0.00066888 | 1.3451484 | 3.77E-06 | 0.99847086 | 0.59869957 |
| Atxn1  | 0.00029073 | 8.6929335 | 3.25E-06 | 0.99857958 | 0.59872811 |
| Hip1   | -0.0003285 | 4.55084302 | 2.81E-06 | 0.99867879 | 0.59873037 |
| Ntm   | 0.00020433 | 7.47633413 | 2.55E-06 | 0.99874106 | 0.59873037 |
| Gene       | β         | t      | P      | R²    | F       | P       |
|------------|-----------|--------|--------|-------|---------|---------|
| 4930592I03R | -0.0047765| -1.8628536| 2.41E-06 | 0.99878043 | 0.59873037 |
| Ifi44      | -0.000399 | 3.33645629 | 1.78E-06 | 0.99894975 | 0.59873037 |
| Csf2rb2    | -0.0015555 | -0.1943771 | 1.76E-06 | 0.9989533 | 0.59873037 |
| Mypn       | 0.00029744 | 1.79093751 | 1.65E-06 | 0.99898903 | 0.59873037 |
| Veph1      | 0.00127064 | -0.1458469 | 1.35E-06 | 0.99908379 | 0.59873037 |
| Lama2      | -0.0002108 | 5.21919044 | 1.22E-06 | 0.99913026 | 0.59873037 |
| Tnnt1      | 0.00053392 | 1.24684882 | 1.21E-06 | 0.99913348 | 0.59873037 |
| Gatsl3     | -0.0002603 | 1.40357407 | 9.44E-07 | 0.99923453 | 0.5987543 |
| Rab10os   | 0.00011984 | 3.09165259 | 2.78E-07 | 0.9995846 | 0.59884664 |
| Apol8      | 5.84E-05  | -0.2681025 | 2.61E-07 | 0.99959713 | 0.59884664 |
| Tmem28     | 0.00016612 | 1.70191866 | 1.58E-07 | 0.99968635 | 0.59884664 |
| 2900055J20F | -0.0001061 | 3.12873871 | 1.11E-07 | 0.99973733 | 0.59884664 |
| Fam196a    | 5.25E-05  | 4.27266502 | 7.41E-08 | 0.99978549 | 0.59884664 |
| Chchd7     | -1.32E-05 | 3.63145787 | 1.25E-08 | 0.99991177 | 0.59884664 |
| Otx1       | 4.40E-05  | 2.08237612 | 8.37E-09 | 0.9999279 | 0.59884664 |
| 2310007B03 | 0.14350914 | -1.8865621 | 7.10E-10 | 0.99997911 | 0.59884664 |
| Nkx1-2     | -0.0269067 | -1.9523449 | 4.22E-11 | 0.99999491 | 0.59884664 |
| Fetub      | -0.0464614 | -0.5004889 | -4.34E-11 | 1 | 0.59884664 |