| gene       | score   | C0      | C1      | C2      | C3      |
|------------|---------|---------|---------|---------|---------|
| A2M        | 0.9564367 | -1.2562731 | -0.2261331 | 1.1099019 | 0.3725042 |
| ABCC3      | 0.9933230 | -1.4700365 | 0.3393595  | 0.7710235 | 0.3596534 |
| ACTR1B     | 0.9698842 | -1.3346546 | 0.1532987  | 1.0893741 | 0.0919818 |
| ADAMTS6    | 0.9134579 | -1.3016290 | -0.2395719 | 0.5963632 | 0.9448377 |
| AFF3       | 0.8927700 | -1.3948073 | 0.7855815  | 0.6594343 | -0.0502085 |
| ALDH1B1    | 0.9557856 | -1.3503262 | 0.3364529  | 1.0310783 | -0.0172049 |
| ALDH1L2    | 0.9816792 | -1.3637563 | 0.1511891  | 1.0434054 | 0.1691619 |
| ALG14      | 0.8382430 | -1.3808123 | 0.9511522  | 0.4343328 | -0.0046726 |
| AMIGO2     | 0.9734952 | -1.3286866 | 0.0818726  | 1.0980733 | 0.1487407 |
| ANKRD1     | 0.9984583 | -1.4178900 | 0.0858543  | 0.8840288 | 0.4480068 |
| ARL4D      | 0.9731419 | -1.4541501 | 0.1477074  | 0.5816893 | 0.7247535 |
| ASB6       | 0.9082652 | -1.4537500 | 0.3695812  | 0.2572075 | 0.8269614 |
| ASNS       | 0.8616844 | -1.3681836 | 0.8665773  | 0.6052838 | -0.1036775 |
| ATP10A     | 0.9982447 | -1.4136830 | 0.0852234  | 0.9006986 | 0.4277609 |
| AVEN       | 0.9827392 | -1.3376218 | -0.0583706 | 1.0392903 | 0.3567021 |
| BAMBI      | 0.9676382 | -1.2876158 | -0.1429487 | 1.1015165 | 0.3290481 |
| BMP6       | 0.9494546 | -1.3780093 | 0.4636035  | 0.9409865 | -0.0265806 |
| BOK        | 0.9835722 | -1.3741743 | 0.1745699  | 1.0250344 | 0.1745699 |
| C19orf25   | 0.8609682 | -1.3941832 | 0.2831732  | 0.1318927 | 0.9791172 |
| C1orf198   | 0.9566104 | -1.3234034 | 0.2327194  | 1.0929045 | -0.0022205 |
| C5orf28    | 0.9055725 | -1.3445774 | 0.6293326  | 0.8773649 | -0.1621201 |
| C6orf62    | 0.8950345 | -1.2204911 | -0.4082720 | 0.7214273 | 0.9073358 |
| C7orf60    | 0.9918161 | -1.4152412 | 0.2374195  | 0.9404021 | 0.2374195 |
| CALD1      | 0.8732032 | -1.4398971 | 0.8648165  | 0.3694847 | 0.2055958 |
| CD24       | 0.9703728 | -1.3130572 | -0.1963281 | 0.9762938 | 0.5330915 |
| CDH8       | 0.9929878 | -1.4399955 | 0.2970838  | 0.8756192 | 0.2672925 |
| CDKL5      | 0.9868311 | -1.3798018 | 0.1590694  | 1.0139440 | 0.2067885 |
| CEBPG      | 0.9786392 | -1.3552425 | 0.1486825  | 1.0578775 | 0.1486825 |
| CHAC1      | 0.8163095 | -1.2059448 | 0.7247119  | 0.9131852 | -0.4319523 |
| CLIC3      | 0.9415305 | -1.2166284 | -0.2930749 | 1.1384663 | 0.3712370 |
| CNN1       | 0.9678340 | -1.2883412 | -0.1514947 | 1.0945260 | 0.3453099 |
| COL4A1     | 0.9968625 | -1.4047041 | 0.0536484  | 0.9113798 | 0.4396759 |
| COL4A2     | 0.9876091 | -1.3919030 | 0.2003998  | 0.9911034 | 0.2003998 |
| COL8A1     | 0.9154305 | -1.3085268 | 0.4763928  | 1.0138061 | -0.1816720 |
| COMP       | 0.8822296 | -1.1181926 | -0.5515550 | 0.9951921 | 0.6745555 |
| COTL1      | 0.8453310 | -1.3909434 | 0.3477326  | 0.0742722 | 0.9689386 |
| Ctensor56  | 0.9533503 | -1.4946633 | 0.4386267  | 0.4386267 | 0.6174099 |
| DCBLD1     | 0.9357524 | -1.3901844 | -0.0140246 | 0.5004992 | 0.9037097 |
|   | Gene   | Expression | Change 1 | Change 2 | Change 3 | Change 4 | Change 5 | Change 6 |
|---|--------|------------|----------|----------|----------|----------|----------|----------|
| 41| DCLK2  | 0.9317804  | -1.4688119 | 0.3478081 | 0.3445198 | 0.7764840 |
| 42| DDAH1  | 0.9904537  | -1.4803428 | 0.2792669 | 0.6687415 | 0.5323345 |
| 43| DIAPH3 | 0.8933553  | -1.2669113 | -0.2956020 | 0.5728922 | 0.9896210 |
| 44| DSP    | 0.9820110  | -1.4247236 | 0.0326442 | 0.7048242 | 0.6872552 |
| 45| EDN1   | 0.8416584  | -1.4328962 | 0.8837169 | 0.1878319 | 0.3613474 |
| 46| EIF4EBP1| 0.9653031  | -1.4601498 | 0.1892278 | 0.5247046 | 0.7462175 |
| 47| ELN    | 0.9883174  | -1.3608053 | -0.0418082 | 0.9866123 | 0.4160012 |
| 48| ENO1   | 0.8548744  | -1.0647773 | -0.6269834 | 0.9909906 | 0.7007701 |
| 49| ENTPD4 | 0.9434073  | -1.4838662 | 0.3938586 | 0.3885458 | 0.7014619 |
| 50| F3     | 0.9913414  | -1.3730123 | 0.0246922 | 0.9945066 | 0.3538135 |
| 51| FAM101B| 0.9452128  | -1.4837089 | 0.3848101 | 0.3965773 | 0.7023215 |
| 52| FKBP11 | 0.9023718  | -1.4176344 | 0.2078619 | 0.2767617 | 0.9330108 |
| 53| FLNB   | 0.9723643  | -1.3552042 | 0.2146337 | 1.0534536 | 0.0871169 |
| 54| FLNC   | 0.9731699  | -1.3441944 | -0.1624855 | 0.8792325 | 0.6274473 |
| 55| FMN2   | 0.9404869  | -1.4777703 | 0.3653031 | 0.3774082 | 0.7350589 |
| 56| GATA6  | 0.9521678  | -1.2704100 | 0.0346771 | 1.1752434 | 0.0604895 |
| 57| GFRA1  | 0.9684539  | -1.3047272 | -0.2064093 | 0.9953114 | 0.5153751 |
| 58| GLS    | 0.9405295  | -1.3690826 | 0.4952534 | 0.9361882 | -0.0623590 |
| 59| GPRC5A | 0.9593856  | -1.2676777 | -0.2332449 | 1.0761958 | 0.4247267 |
| 60| GRAMD3 | 0.9700947  | -1.3027031 | -0.0284940 | 1.1217289 | 0.2094683 |
| 61| HAPLN1 | 0.8911967  | -1.1147821 | -0.5190587 | 1.0936161 | 0.5402247 |
| 62| HAPLN3 | 0.9913387  | -1.4058383 | 0.2094499 | 0.9615651 | 0.2348234 |
| 63| HIAT1  | 0.9125065  | -1.2441302 | 0.2778614 | 1.1569650 | -0.1906962 |
| 64| HSPB3  | 0.9075323  | -1.2928153 | -0.2527449 | 0.5852028 | 0.9603574 |
| 65| HSPB7  | 0.9299202  | -1.4668866 | 0.7046517 | 0.5560584 | 0.2061765 |
| 66| HSPG2  | 0.9830992  | -1.3394132 | -0.0718440 | 1.0257747 | 0.3854825 |
| 67| IDH2   | 0.9741665  | -1.3671406 | 0.2434852 | 1.0310509 | 0.0926045 |
| 68| IFFO2  | 0.9429018  | -1.3113510 | -0.2489629 | 0.7568496 | 0.8034642 |
| 69| IGHJ3  | 0.9784598  | -1.4597163 | 0.1647122 | 0.6051905 | 0.6898136 |
| 70| INA    | 0.9283863  | -1.1838396 | -0.3458559 | 1.1578639 | 0.3718316 |
| 71| ITGA1  | 0.9189983  | -1.2479780 | 0.2433272 | 1.1651531 | -0.1605024 |
| 72| ITGA11 | 0.9298254  | -1.2593846 | 0.2020652 | 1.1666871 | -0.1093676 |
| 73| ITGA3  | 0.9135371  | -1.3605717 | -0.0580602 | 0.4454831 | 0.9731488 |
| 74| ITGBL1 | 0.9714782  | -1.3293484 | 0.1105572 | 1.0982125 | 0.1205788 |
| 75| JAG1   | 0.9539919  | -1.2496056 | -0.1559666 | 1.1644914 | 0.2410807 |
| 76| KCNE4  | 0.9409939  | -1.2172051 | -0.3090075 | 1.1224554 | 0.4037572 |
| 77| KCNK6  | 0.8940192  | -1.1452360 | -0.5145357 | 0.9819821 | 0.6777896 |
| 78| KIAA1462| 0.9919957  | -1.4002960 | -0.0073922 | 0.8592844 | 0.5484039 |
| 79| KRTAP1-5| 0.9685051  | -1.4230772 | 0.0358685 | 0.6181368 | 0.7690718 |
| 80| KRTAP2-3| 0.8979487  | -1.3318158 | -0.1124560 | 0.4300231 | 1.0142487 |
| 81| LARGE  | 0.9742919  | -1.3094073 | -0.1320837 | 1.0591670 | 0.3823241 |
| 82| LGMN   | 0.9893626  | -1.4776182 | 0.3824866 | 0.7355707 | 0.3595609 |
| 83| LINC00862| 0.8835928  | -1.2202891 | -0.3949935 | 0.6490449 | 0.9623777 |
| Position | Gene Symbol | FPKM Value | Log2 Fold Change | RPKM Value | Log2 Fold Change |
|----------|-------------|------------|-----------------|------------|-----------------|
| 84 | LINC01023 | 0.9826165 | -1.3703228 | 0.1691729 | 1.0319769 | 0.1691729 |
| 85 | LMOD1 | 0.9809863 | -1.3607686 | 0.1459481 | 1.0484962 | 0.1663242 |
| 86 | LOXL2 | 0.9313672 | -1.2334422 | -0.3785471 | 0.9402843 | 0.6717050 |
| 87 | LPCAT2 | 0.9831972 | -1.3680926 | 0.1522862 | 1.0357110 | 0.1800954 |
| 88 | LYPD6B | 0.9102627 | -1.4736922 | 0.4964845 | 0.2602762 | 0.7169315 |
| 89 | MALL | 0.9157396 | -1.4468997 | 0.2958231 | 0.2958231 | 0.8552535 |
| 90 | MARCH4 | 0.9647904 | -1.4994475 | 0.4620215 | 0.5129268 | 0.5244992 |
| 91 | MFAP5 | 0.9694343 | -1.3004386 | -0.0330413 | 1.1242788 | 0.2092011 |
| 92 | MICAL2 | 0.9859064 | -1.3516373 | -0.0650440 | 0.9958757 | 0.4208057 |
| 93 | MIR614 | 0.9690628 | -1.3105927 | 0.0416170 | 1.1220661 | 0.1469097 |
| 94 | MKNK2 | 0.9782217 | -1.3896923 | 0.2865640 | 0.9864150 | 0.1167133 |
| 95 | MRV1 | 0.9673376 | -1.2998701 | 0.0010567 | 1.1325622 | 0.1662512 |
| 96 | MTHFD2 | 0.9425479 | -1.3272884 | 0.3566730 | 1.0510120 | -0.0803966 |
| 97 | MYLK | 0.9411237 | -1.2704445 | 0.1502705 | 1.1667149 | -0.0465409 |
| 98 | NEK7 | 0.9748103 | -1.1313269 | -0.1546437 | 1.0376126 | 0.4212940 |
| 99 | NEXN | 0.9000160 | -1.2724591 | 0.4630400 | 1.0538119 | -0.2416928 |
| 100 | NLN | 0.9302125 | -1.3430898 | -0.1531044 | 0.5847416 | 0.9114527 |
| 101 | NOTCH3 | 0.9434055 | -1.2307154 | -0.3234486 | 1.0711973 | 0.4829667 |
| 102 | NPAS2 | 0.9870490 | -1.3866530 | 0.1858079 | 1.0014552 | 0.1993900 |
| 103 | OCLM | 0.8620149 | -1.1192164 | -0.5684548 | 0.8368821 | 0.8507891 |
| 104 | OR2T35 | 0.8451281 | -1.0443143 | -0.6525505 | 0.9966054 | 0.7025294 |
| 105 | OXTR | 0.9695185 | -1.4121410 | -0.0017548 | 0.6508039 | 0.7630918 |
| 106 | PCGF5 | 0.9318590 | -1.4169976 | 0.6484427 | 0.7559638 | 0.0125911 |
| 107 | PCK2 | 0.9447962 | -1.4625153 | 0.6445960 | 0.6445960 | 0.1733232 |
| 108 | PDCD1LG2 | 0.9596792 | -1.3202461 | -0.2250414 | 0.8512253 | 0.6940621 |
| 109 | PDE1C | 0.8956815 | -1.4159835 | 0.2284604 | 0.2490218 | 0.9385014 |
| 110 | PDE5A | 0.9820846 | -1.3473258 | -0.1147672 | 0.9576338 | 0.5044593 |
| 111 | PDLIM5 | 0.9378403 | -1.4808119 | 0.6687172 | 0.5290604 | 0.2830344 |
| 112 | PDLIM7 | 0.9607103 | -1.4996238 | 0.5157107 | 0.5157107 | 0.4682025 |
| 113 | PFKP | 0.8870913 | -1.2288958 | -0.3801079 | 0.6449921 | 0.9640116 |
| 114 | PHGDH | 0.8182102 | -1.4011915 | 0.9718519 | 0.2146698 | 0.2146698 |
| 115 | PKD1 | 0.9786444 | -1.4018931 | 0.3219963 | 0.9570369 | 0.1228600 |
| 116 | PLCB1 | 0.9917511 | -1.4039361 | -0.0025448 | 0.8444188 | 0.5620621 |
| 117 | PLCB4 | 0.9693709 | -1.3105019 | 0.0366376 | 1.1216369 | 0.1522273 |
| 118 | PLEKH4A2 | 0.8999955 | -1.4242461 | 0.2497060 | 0.2560618 | 0.9184782 |
| 119 | PLN | 0.8405911 | -1.2159562 | 0.6294031 | 0.9836678 | -0.3971147 |
| 120 | PLOD2 | 0.9454694 | -1.2249168 | -0.2301262 | 1.1680018 | 0.2870412 |
| 121 | PMM2 | 0.9985823 | -1.4316277 | 0.1053098 | 0.8360642 | 0.4902537 |
| 122 | PPME1 | 0.9487660 | -1.2873725 | 0.1537769 | 1.1489327 | -0.0147970 |
| 123 | PPP1R13L | 0.9734964 | -1.3413321 | 0.1440700 | 1.0799593 | 0.1173028 |
| 124 | PRPS1 | 0.9746941 | -1.3653665 | -0.1235581 | 0.8221141 | 0.668104 |
| 125 | PSAT1 | 0.8972138 | -1.3452782 | 0.6732708 | 0.8415411 | -0.1695337 |
| 126 | PSM3 | 0.9957093 | -1.4542216 | 0.2950623 | 0.8309288 | 0.3282305 |
|   | Gene  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 127| RASA4 | 0.9593443 | -1.4998177 | 0.4889166 | 0.4889166 | 0.5219846 |
| 128| RGS19 | 0.9937487 | -1.4623538 | 0.3300266 | 0.8023007 | 0.3300266 |
| 129| RNF181 | 0.9941587 | -1.4581018 | 0.3200760 | 0.8179498 | 0.3200760 |
| 130| RNF187 | 0.9747268 | -1.3100282 | -0.0986180 | 1.0797952 | 0.3288510 |
| 131| RP11-23E10.2 | 0.9385084 | -1.3313660 | 0.3980990 | 1.0294337 | -0.0961668 |
| 132| RP11-469A15.2 | 0.9191853 | -1.1784669 | -0.4272957 | 1.0668865 | 0.5388761 |
| 133| RUSC2 | 0.9689835 | -1.3087624 | -0.2046771 | 0.9803253 | 0.5331142 |
| 134| SASS6 | 0.8433199 | -1.2385626 | 0.6774082 | 0.9323569 | -0.3712026 |
| 135| SCUBE3 | 0.9546617 | -1.4477122 | 0.1606622 | 0.4853031 | 0.8017468 |
| 136| SEL1L3 | 0.9632298 | -1.4636258 | 0.5547788 | 0.7161664 | 0.1926806 |
| 137| SEMA7A | 0.8668272 | -1.1090822 | -0.5795247 | 0.9090773 | 0.7795295 |
| 138| SERPINE1 | 0.9614960 | -1.3020981 | -0.2430883 | 0.9332920 | 0.6118944 |
| 139| SGPL1 | 0.9011777 | -1.2434800 | 0.3560834 | 1.1267890 | -0.2393923 |
| 140| SH3D21 | 0.8327271 | -1.1081318 | -0.5661594 | 0.6792185 | 0.9950727 |
| 141| SLC16A3 | 0.9831516 | -1.3867183 | -0.0656461 | 0.8211078 | 0.6312566 |
| 142| SLC16A4 | 0.9468849 | -1.4873421 | 0.4041330 | 0.4041130 | 0.6791162 |
| 143| SLC1A4 | 0.9982199 | -1.4274426 | 0.0915608 | 0.8436312 | 0.4922507 |
| 144| SLC1A5 | 0.9837034 | -1.4790547 | 0.4336760 | 0.7200644 | 0.3253143 |
| 145| SLC7A5 | 0.9794281 | -1.4374199 | 0.4094733 | 0.8588056 | 0.1691409 |
| 146| SLC8A1 | 0.9115663 | -1.3670308 | -0.0302760 | 0.4210951 | 0.9762117 |
| 147| SNAI1 | 0.9165715 | -1.2612318 | -0.3413026 | 0.7351291 | 0.8674053 |
| 148| SOX9 | 0.9742165 | -1.3784976 | 0.2836875 | 1.0056415 | 0.0891686 |
| 149| SPDL1 | 0.8542879 | -1.4007999 | 0.3526924 | 0.0973787 | 0.9507288 |
| 150| SPONCD1 | 0.8582624 | -1.3903723 | 0.2774307 | 0.1260189 | 0.9869227 |
| 151| SRGN | 0.9400751 | -1.2306321 | -0.3476668 | 1.0332384 | 0.5450605 |
| 152| SSC5D | 0.9709133 | -1.3845336 | -0.0826021 | 0.7335679 | 0.7335679 |
| 153| STC2 | 0.8761693 | -1.4532297 | 0.8347700 | 0.3134921 | 0.3049677 |
| 154| TAF1D | 0.8759385 | -1.3040855 | -0.1407091 | 0.3789979 | 1.0657967 |
| 155| TECPR2 | 0.9987015 | -1.4221071 | 0.1509933 | 0.9066169 | 0.3644969 |
| 156| TES | 0.9487457 | -1.2482535 | -0.0545800 | 1.1946463 | 0.1081872 |
| 157| TGFB1 | 0.8974330 | -1.3709095 | 0.0291005 | 0.3395311 | 1.0022159 |
| 158| TGFB3L1 | 0.9704533 | -1.3436383 | 0.1862844 | 1.0737528 | 0.0836012 |
| 159| TPM1 | 0.8491802 | -1.4366072 | 0.8806786 | 0.2230255 | 0.3329032 |
| 160| TRAF5 | 0.8623273 | -1.2674946 | 0.6574752 | 0.9275537 | -0.3175343 |
| 161| TSPAN13 | 0.9309372 | -1.3123717 | -0.2374915 | 0.6743327 | 0.8755306 |
| 162| TSPAN18 | 0.9996749 | -1.4502356 | 0.2020912 | 0.8203420 | 0.4278024 |
| 163| TUFT1 | 0.9815601 | -1.3661796 | 0.1634445 | 1.0392907 | 0.1634445 |
| 164| VASP | 0.9664705 | -1.4741360 | 0.5449934 | 0.6865556 | 0.2430870 |
| 165| VEGFC | 0.8673465 | -1.3941979 | 0.2522117 | 0.1583583 | 0.9836280 |
| 166| WWDC2 | 0.9910185 | -1.3766313 | -0.0292329 | 0.9435610 | 0.4623032 |
| 167| YEATS2 | 0.9652886 | -1.3029435 | 0.0495589 | 1.1338390 | 0.1195456 |
| gene      | score      | C0        | C1        | C2        | C3        |
|-----------|------------|-----------|-----------|-----------|-----------|
| 1 C11orf87| 0.8828397  | -0.9725237| 1.4008764 | -0.2141763| -0.2141763|
| 2 CNKSR2  | 0.9913703  | -0.1832526| 1.4323756 | -0.8839496| -0.3651734|
| 3 FCGR1B  | 0.9953151  | -0.2964243| 1.4834578 | -0.6525131| -0.5345204|
| 4 GREM2   | 0.9167843  | -0.566162 | 1.3102836 | -0.9573174| 0.2136500 |
| 5 GSTT2   | 0.9715061  | -0.4453229| 1.4927260 | -0.4120544| -0.6353486|
| 6 LRRC37A2| 0.9147700  | -0.6924642| 1.4561054 | -0.1487151| -0.6149261|
| 7 MIR3191 | 0.9392258  | -0.7941899| 1.4644567 | -0.3351334| -0.3351334|
| 8 OC90    | 0.8076769  | 0.5003114 | 1.0558635 | -1.2385225| -0.3176524|
| 9 OR4D10  | 0.9620069  | -0.6908257| 1.4855495 | -0.4047652| -0.3899587|
| 10 OR8H3  | 0.8916834  | -0.9272342| 1.4186660 | -0.1871028| -0.3043290|
| 11 POTEG  | 0.9951495  | -0.4450165| 1.4956928 | -0.6056958| -0.4450165|
| 12 POTEI  | 0.9085706  | -0.7988792| 1.3460565 | -0.7209266| 0.1737493 |
| 13 PPP2R2B| 0.9783114  | -0.5337382| 1.4357469 | -0.8023905| -0.0996183|
| 14 SLC2A3 | 0.9850127  | -0.5000000| 1.0500000 | -0.5000000| -0.5000000|
| 15 TWISTNB| 0.9970244  | -0.4285537| 1.4928297 | -0.6357224| -0.4285537|
| 16 USP17L23| 0.8738569  | 0.4061643 | 1.2058274 | -1.0081742| -0.6038175|
| 17 ZNF595 | 0.8040890  | 0.1772271 | 1.0356049 | -1.3682009| 0.1553689 |
| gene      | score  | C0     | C1     | C2     | C3     |
|-----------|--------|--------|--------|--------|--------|
| ABCC9     | 0,8003859 | 1,1622739 | 0,5016627 | -0,9129357 | -0,7510009 |
| ADH1B     | 0,9986559 | 1,4726975 | -0,3972256 | -0,7557428 | -0,3197291 |
| AKAP12    | 0,9439186 | 1,4039273 | -0,8688878 | -0,5233404 | -0,0116992 |
| AKR7L     | 0,9333496 | 1,4615942 | -0,5448349 | -0,1875720 | -0,7291872 |
| APCDD1    | 0,9936963 | 1,4556616 | -0,3145686 | -0,8265243 | -0,3145686 |
| ARMCX1    | 0,8608082 | 1,1795279 | 0,1007674 | -1,2642397 | -0,0160565 |
| CCL2      | 0,8295384 | 1,3242957 | -1,0352936 | 0,1130324 | -0,4020345 |
| CCNL1     | 0,9172615 | 1,4018034 | -0,0119922 | -0,5091426 | -0,8806686 |
| CDC25B    | 0,8875107 | 1,2256626 | -0,0009184 | -1,2238258 | -0,0009184 |
| CDON      | 0,9247375 | 1,4509454 | -0,7046982 | -0,1284652 | -0,6177819 |
| CLIC2     | 0,9580355 | 1,4986310 | -0,4693400 | -0,4693400 | -0,5599509 |
| CLU       | 0,9803218 | 1,4758587 | -0,7104014 | -0,4927477 | -0,2727097 |
| COL14A1   | 0,9667152 | 1,4794880 | -0,7232215 | -0,3457568 | -0,4105080 |
| COLEC12   | 0,9643067 | 1,4865840 | -0,4652409 | -0,3493521 | -0,6719910 |
| CTAGE1    | 0,8711616 | 1,2389673 | 0,3008336 | -1,0772810 | -0,4625199 |
| CTSK      | 0,8366557 | 1,2396451 | 0,3822796 | -0,7807750 | -0,8411497 |
| CTSL      | 0,9200392 | 1,4105423 | -0,9507548 | -0,2490450 | -0,2107426 |
| DCLK1     | 0,9632814 | 1,4817079 | -0,3786498 | -0,3890521 | -0,7140060 |
| DCN       | 0,9856063 | 1,4993334 | -0,5208558 | -0,4576219 | -0,5208558 |
| DHCR24    | 0,8488743 | 1,2240183 | -0,9729064 | -0,6372706 | 0,3861587 |
| DKO1      | 0,8805552 | 1,3280446 | 0,1991915 | -0,6403393 | -0,8868968 |
| DNM1      | 0,9670216 | 1,4057136 | -0,6448941 | -0,7795699 | 0,0187504 |
| EEFP1     | 0,9843658 | 1,4401760 | -0,1925548 | -0,8589025 | -0,3887187 |
| EGFR      | 0,9837185 | 1,4282757 | -0,4853184 | -0,8455844 | -0,0973729 |
| FADS1     | 0,9977000 | 1,4714665 | -0,3532247 | -0,7650171 | -0,3532247 |
| FAP       | 0,8884338 | 1,4099750 | -0,8055459 | -0,0018821 | -0,6025470 |
| FASN      | 0,8665930 | 1,1936569 | -0,4903871 | -1,0889983 | 0,3857284 |
| FBLN7     | 0,8030529 | 1,2837591 | -1,1077966 | 0,1457578 | -0,3217203 |
| FLT3LG    | 0,9624297 | 1,3975732 | -0,0482628 | -0,9336344 | -0,4156760 |
| FOSB      | 0,9577609 | 1,4230998 | -0,0323359 | -0,7529537 | -0,6378103 |
| GH2       | 0,8771708 | 1,2411684 | 0,2646828 | -1,1104519 | -0,3953993 |
| GLUD1     | 0,9020424 | 1,3077533 | -0,8776376 | -0,6771368 | 0,2470211 |
| GPNMB     | 0,9366857 | 1,4087353 | -0,0116451 | -0,6527933 | -0,7678571 |
| HCG9      | 0,9940026 | 1,4532429 | -0,3831518 | -0,8255040 | -0,2448572 |
| IER2      | 0,9499762 | 1,3559480 | -0,0660832 | -1,0481460 | -0,2417188 |
| IFI16     | 0,9662324 | 1,4171821 | -0,0561028 | -0,8586816 | -0,5042177 |
| IFIT3     | 0,9979277 | 1,4942416 | -0,5043359 | -0,6020293 | -0,3878674 |
| IFITM1    | 0,9497168 | 1,4731927 | -0,6849376 | -0,2361866 | -0,5520685 |
| IGKV1-16  | 0,9348396 | 1,4514556 | -0,2892269 | -0,3220421 | -0,8401866 |
| IGSF10    | 0,9901047 | 01,05,2020 | -0,5000000 | -0,5000000 | -0,5000000 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | IL13RA2 | 0.9972474 | 1.4937199 | -0.4075558 | -0.6231537 | -0.4630104 |
| 42 | JUN | 0.8959453 | 1.3716770 | 0.0590721 | -0.5014923 | -0.9292568 |
| 43 | JUNB | 0.9110896 | 1.3136049 | 0.1832135 | -0.9940127 | -0.5028057 |
| 44 | KCND2 | 0.9462754 | 1.4708264 | -0.4379242 | -0.2803913 | -0.7525110 |
| 45 | KLF4 | 0.9838206 | 1.4980366 | -0.4631778 | -0.4631778 | -0.5716809 |
| 46 | KLF6 | 0.9370906 | 1.3353178 | 0.0135313 | -1.0662449 | -0.2826041 |
| 47 | KRTPAP10-5 | 0.9406814 | 1.4660233 | -0.4436397 | -0.2549444 | -0.7674392 |
| 48 | LDLR | 0.8249128 | 1.1111791 | 0.1045996 | -1.3203783 | 0.1045996 |
| 49 | LGALS9B | 0.9445303 | 1.3821783 | 0.0548283 | -0.8829464 | -0.5540602 |
| 50 | LRIG3 | 0.9622602 | 1.4840118 | -0.4371380 | -0.3521960 | -0.6946778 |
| 51 | LLRC32 | 0.9964308 | 1.4882064 | -0.3556195 | -0.6595674 | -0.4730194 |
| 52 | LRRN4CL | 0.9719891 | 1.4816749 | -0.7142742 | -0.3837003 | -0.3837003 |
| 53 | MAFB | 0.9985090 | 1.4759278 | -0.3658041 | -0.7443197 | -0.3658041 |
| 54 | MCL1 | 0.9300157 | 1.3951364 | 0.0517973 | -0.6781745 | -0.7687592 |
| 55 | MIR3620 | 0.8534974 | 1.2173284 | 0.3626198 | -1.0531283 | -0.5268199 |
| 56 | MMP1 | 0.9859884 | 1.4967153 | -0.4163871 | -0.5020164 | -0.5783118 |
| 57 | MYLIP | 0.9433502 | 1.3669880 | 0.0521119 | -0.9562337 | -0.4628662 |
| 58 | NAV2 | 0.9985003 | 1.4727394 | -0.3829505 | -0.7576945 | -0.3320944 |
| 59 | NPC2 | 0.9197807 | 1.3922811 | 0.0439252 | -0.5991922 | -0.8370141 |
| 60 | OAF | 0.8538230 | 1.3309059 | -1.0918448 | -0.5583626 | -0.1827345 |
| 61 | OR2A14 | 0.9843459 | 1.4345964 | -0.2122414 | -0.8848660 | -0.3734890 |
| 62 | OR2L3 | 0.9716015 | 1.3932496 | -0.3023985 | -0.9769535 | -0.1138976 |
| 63 | OR56A5 | 0.8994255 | 1.4973952 | -0.4167941 | -0.5293259 | -0.5512752 |
| 64 | OSR2 | 0.9086790 | 1.3620951 | 0.1343899 | -0.6894936 | -0.8069913 |
| 65 | OXT | 0.9819089 | 1.4864710 | -0.6755045 | -0.4567874 | -0.3541792 |
| 66 | PDE7B | 0.9694496 | 1.3938353 | -0.4796165 | -0.9094882 | -0.0047305 |
| 67 | PDGFR | 0.9901047 | 01,05,2020 | -0.5000000 | -0.5000000 | -0.5000000 |
| 68 | PHLDA1 | 0.8629283 | 1.1799823 | 0.0432353 | -1.2664530 | 0.0432353 |
| 69 | PPAP2B | 0.9536739 | 1.4728103 | -0.3569138 | -0.3569138 | -0.7589827 |
| 70 | PPARC1A | 0.9607123 | 1.4441186 | -0.1001836 | -0.6454700 | -0.6984650 |
| 71 | PRSS36 | 0.9468640 | 1.4133100 | -0.8672163 | -0.4981930 | -0.0479006 |
| 72 | PTGFR | 0.9947655 | 1.4893338 | -0.5768669 | -0.5843183 | -0.3281486 |
| 73 | PTGS2 | 0.9962516 | 1.4830948 | -0.3309499 | -0.6926551 | -0.4594988 |
| 74 | REV3L | 0.9361165 | 1.4474530 | -0.2322858 | -0.3702994 | -0.8448786 |
| 75 | RNPS1 | 0.8743238 | 1.3044197 | -1.0566237 | -0.3989745 | 0.1511785 |
| 76 | RRP7B | 0.9583549 | 1.4586448 | -0.1844671 | -0.5218436 | -0.7523341 |
| 77 | RSPO3 | 0.9803763 | 1.4567408 | -0.1653764 | -0.7371862 | -0.5541782 |
| 78 | SAMHD1 | 0.9626130 | 1.4814892 | -0.3830851 | -0.3830851 | -0.7153190 |
| 79 | SAT1 | 0.9952904 | 1.4789827 | -0.3084349 | -0.7125276 | -0.4580202 |
| 80 | SCD | 0.8035994 | 1.0801035 | -0.4529406 | -1.1596177 | 0.5324548 |
| 81 | SCPEP1 | 0.9677274 | 1.4813957 | -0.3320770 | -0.4428927 | -0.7064260 |
| 82 | SLC39A8 | 0.9353952 | 1.4535844 | -0.3099859 | -0.3099859 | -0.8336126 |
| 83 | SLC43A3 | 0.9391875 | 1.3226945 | -0.2864100 | -1.0800612 | 0.0437766 |
|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| 84 | SLC7A8 | 0.9896718 | 1.4396441 | -0.3689531 | -0.8655794 | -0.2051116 |
| 85 | SLC9A9 | 0.9461152 | 1.4545222 | -0.2201760 | -0.4247119 | -0.8096342 |
| 86 | SNORA70 | 0.9224294 | 1.3932171 | 0.0464464 | -0.6186550 | -0.8210085 |
| 87 | SREBF1 | 0.9008440 | 1.3654761 | -1.0191763 | -0.3087833 | -0.0375164 |
| 88 | SRSF7 | 0.9905075 | 1.4999933 | -0.4978825 | -0.5042283 | -0.4978825 |
| 89 | SVIL | 0.9626999 | 1.4834485 | -0.4174135 | -0.3642997 | -0.7017352 |
| 90 | TBC1D29 | 0.9929005 | 1.4731216 | -0.2726362 | -0.7325294 | -0.4679561 |
| 91 | TCEAL3 | 0.9751882 | 1.4840329 | -0.7000683 | -0.4031764 | -0.3807881 |
| 92 | TGFBR3 | 0.9832895 | 1.4720554 | -0.2227644 | -0.6637914 | -0.5854996 |
| 93 | TNFSF10 | 0.9901047 | 1.0500000 | -0.5000000 | -0.5000000 | -0.5000000 |
| 94 | UBC | 0.9877054 | 1.4894297 | -0.3288813 | -0.5802742 | -0.5802742 |
| 95 | VECX3B | 0.8789211 | 1.3320112 | -1.0700008 | -0.2835173 | 0.0215069 |
| 96 | WISP2 | 0.9369645 | 1.4513546 | -0.2656637 | -0.3478342 | -0.8378568 |
| 97 | ZCCHC14 | 0.9053322 | 1.2654276 | 0.0412018 | -1.1745417 | -0.1320877 |
| 98 | ZFP36 | 0.8685210 | 1.1862485 | -0.0807513 | -1.2510436 | 0.1455464 |
| 99 | ZNF14 | 0.9249957 | 1.4401905 | -0.8389250 | -0.1569383 | -0.4443272 |
| 100 | ZNF436 | 0.9718644 | 1.4754005 | -0.7418035 | -0.4106090 | -0.3229880 |
| 101 | ZNF480 | 0.9266371 | 1.3714028 | 0.1124768 | -0.7951091 | -0.6887705 |
| 102 | ZNF563 | 0.9377898 | 1.4582201 | -0.3447016 | -0.2971314 | -0.8163871 |
| gene      | score    | C0       | C1       | C2       | C3       |
|-----------|----------|----------|----------|----------|----------|
| HMCN1     |          |          |          |          |          |
| HAS2      |          |          |          |          |          |
| GYS1      |          |          |          |          |          |
| GPR155    |          |          |          |          |          |
| GPC4      | 0,9027848| 0,9027848| 0,9027848| 0,9027848| 0,9027848|
| GPR1      | 0,9363016| 0,9363016| 0,9363016| 0,9363016| 0,9363016|
| GS1       | 0,9203245| 0,9203245| 0,9203245| 0,9203245| 0,9203245|
| HAS2      | 0,8638688| 0,8638688| 0,8638688| 0,8638688| 0,8638688|
| HMCN1     | 0,9893018| 0,9893018| 0,9893018| 0,9893018| 0,9893018|
| HSPA2     | 0,9959488| 0,9959488| 0,9959488| 0,9959488| 0,9959488|
| Gene   | 0.9679243 | 0.9679243 | 0.9679243 | 0.9679243 | 0.9679243 |
|--------|------------|------------|------------|------------|------------|
| HTR2A  | 0.9814817  | 0.9814817  | 0.9814817  | 0.9814817  | 0.9814817  |
| HUNK   | 0.8729157  | 0.8729157  | 0.8729157  | 0.8729157  | 0.8729157  |
| IGFBP5 | 0.9676197  | 0.9676197  | 0.9676197  | 0.9676197  | 0.9676197  |
| IL2ORB | 0.9401067  | 0.9401067  | 0.9401067  | 0.9401067  | 0.9401067  |
| INHBB  | 0.9030614  | 0.9030614  | 0.9030614  | 0.9030614  | 0.9030614  |
| INIP   | 0.9558884  | 0.9558884  | 0.9558884  | 0.9558884  | 0.9558884  |
| ITGA6  | 0.9835958  | 0.9835958  | 0.9835958  | 0.9835958  | 0.9835958  |
| ITGA8  | 0.9710722  | 0.9710722  | 0.9710722  | 0.9710722  | 0.9710722  |
| JADE1  | 0.9848787  | 0.9848787  | 0.9848787  | 0.9848787  | 0.9848787  |
| JPH2   | 0.9873974  | 0.9873974  | 0.9873974  | 0.9873974  | 0.9873974  |
| KCTD20 | 0.9754608  | 0.9754608  | 0.9754608  | 0.9754608  | 0.9754608  |
| KRTAP1-1 | 0.8845501 | 0.8845501  | 0.8845501  | 0.8845501  | 0.8845501  |
| LEP    | 0.9897012  | 0.9897012  | 0.9897012  | 0.9897012  | 0.9897012  |
| LGR5   | 0.9402961  | 0.9402961  | 0.9402961  | 0.9402961  | 0.9402961  |
| LINCO0312 | 0.9973279 | 0.9973279  | 0.9973279  | 0.9973279  | 0.9973279  |
| LMCD1  | 0.9850230  | 0.9850230  | 0.9850230  | 0.9850230  | 0.9850230  |
| LUZP2  | 0.9299540  | 0.9299540  | 0.9299540  | 0.9299540  | 0.9299540  |
| MAMDC2 | 0.9832126  | 0.9832126  | 0.9832126  | 0.9832126  | 0.9832126  |
| MECAM  | 0.9818183  | 0.9818183  | 0.9818183  | 0.9818183  | 0.9818183  |
| MEG3   | 0.8470589  | 0.8470589  | 0.8470589  | 0.8470589  | 0.8470589  |
| MEGF6  | 0.9018239  | 0.9018239  | 0.9018239  | 0.9018239  | 0.9018239  |
| MFGF8  | 0.9998504  | 0.9998504  | 0.9998504  | 0.9998504  | 0.9998504  |
| MIR27B | 0.9442481  | 0.9442481  | 0.9442481  | 0.9442481  | 0.9442481  |
| MIR4640| 0.9532481  | 0.9532481  | 0.9532481  | 0.9532481  | 0.9532481  |
| MSTN   | 0.9832979  | 0.9832979  | 0.9832979  | 0.9832979  | 0.9832979  |
| MUC1   | 0.9000650  | 0.9000650  | 0.9000650  | 0.9000650  | 0.9000650  |
| MYH10  | 0.9309460  | 0.9309460  | 0.9309460  | 0.9309460  | 0.9309460  |
| MYH11  | 0.9210172  | 0.9210172  | 0.9210172  | 0.9210172  | 0.9210172  |
| MYH2   | 0.9798202  | 0.9798202  | 0.9798202  | 0.9798202  | 0.9798202  |
| NALCN  | 0.9761917  | 0.9761917  | 0.9761917  | 0.9761917  | 0.9761917  |
| NEDD1  | 0.9398376  | 0.9398376  | 0.9398376  | 0.9398376  | 0.9398376  |
| NFASC  | 0.9797447  | 0.9797447  | 0.9797447  | 0.9797447  | 0.9797447  |
| NUA1   | 0.9565002  | 0.9565002  | 0.9565002  | 0.9565002  | 0.9565002  |
| P4HA1  | 0.8568481  | 0.8568481  | 0.8568481  | 0.8568481  | 0.8568481  |
| PACSIN3| 0.9715678  | 0.9715678  | 0.9715678  | 0.9715678  | 0.9715678  |
| PADI2  | 0.9733506  | 0.9733506  | 0.9733506  | 0.9733506  | 0.9733506  |
| PDE11A | 0.9941237  | 0.9941237  | 0.9941237  | 0.9941237  | 0.9941237  |
| PKP4   | 0.9904189  | 0.9904189  | 0.9904189  | 0.9904189  | 0.9904189  |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 84 | PLOD1 | 0,9167084 | 0,9167084 | 0,9167084 | 0,9167084 | 0,9167084 |
| 85 | POLR2J | 0,9970975 | 0,9970975 | 0,9970975 | 0,9970975 | 0,9970975 |
| 86 | PPP1R14A | 0,9640831 | 0,9640831 | 0,9640831 | 0,9640831 | 0,9640831 |
| 87 | PTGIS | 0,8553227 | 0,8553227 | 0,8553227 | 0,8553227 | 0,8553227 |
| 88 | PTPRB | 0,9837575 | 0,9837575 | 0,9837575 | 0,9837575 | 0,9837575 |
| 89 | PVR | 0,9666544 | 0,9666544 | 0,9666544 | 0,9666544 | 0,9666544 |
| 90 | RAPH1 | 0,9736981 | 0,9736981 | 0,9736981 | 0,9736981 | 0,9736981 |
| 91 | RASGRP1 | 0,9718980 | 0,9718980 | 0,9718980 | 0,9718980 | 0,9718980 |
| 92 | RASSF2 | 0,9594532 | 0,9594532 | 0,9594532 | 0,9594532 | 0,9594532 |
| 93 | RAVER2 | 0,9608269 | 0,9608269 | 0,9608269 | 0,9608269 | 0,9608269 |
| 94 | RDH10 | 0,9488981 | 0,9488981 | 0,9488981 | 0,9488981 | 0,9488981 |
| 95 | RGCC | 0,9242260 | 0,9242260 | 0,9242260 | 0,9242260 | 0,9242260 |
| 96 | RIMS1 | 0,9539484 | 0,9539484 | 0,9539484 | 0,9539484 | 0,9539484 |
| 97 | RNF144B | 0,9887346 | 0,9887346 | 0,9887346 | 0,9887346 | 0,9887346 |
| 98 | RNF217 | 0,9655031 | 0,9655031 | 0,9655031 | 0,9655031 | 0,9655031 |
| 99 | ROR1 | 0,9491913 | 0,9491913 | 0,9491913 | 0,9491913 | 0,9491913 |
| 100 | SCN9A | 0,9913465 | 0,9913465 | 0,9913465 | 0,9913465 | 0,9913465 |
| 101 | SDC2 | 0,9890486 | 0,9890486 | 0,9890486 | 0,9890486 | 0,9890486 |
| 102 | SDRP | 0,9804184 | 0,9804184 | 0,9804184 | 0,9804184 | 0,9804184 |
| 103 | SFRP4 | 0,9432725 | 0,9432725 | 0,9432725 | 0,9432725 | 0,9432725 |
| 104 | SGCD | 0,9974242 | 0,9974242 | 0,9974242 | 0,9974242 | 0,9974242 |
| 105 | SLC25A4 | 0,9994171 | 0,9994171 | 0,9994171 | 0,9994171 | 0,9994171 |
| 106 | SLC2A1 | 0,9635234 | 0,9635234 | 0,9635234 | 0,9635234 | 0,9635234 |
| 107 | SLC38A4 | 0,9491913 | 0,9491913 | 0,9491913 | 0,9491913 | 0,9491913 |
| 108 | SLC4A4 | 0,9366716 | 0,9366716 | 0,9366716 | 0,9366716 | 0,9366716 |
| 109 | SNORD19B | 0,9970976 | 0,9970976 | 0,9970976 | 0,9970976 | 0,9970976 |
| 110 | SORBS1 | 0,9545951 | 0,9545951 | 0,9545951 | 0,9545951 | 0,9545951 |
| 111 | SORBS2 | 0,9604649 | 0,9604649 | 0,9604649 | 0,9604649 | 0,9604649 |
| 112 | SORT1 | 0,9132718 | 0,9132718 | 0,9132718 | 0,9132718 | 0,9132718 |
| 113 | SSH1 | 0,9569616 | 0,9569616 | 0,9569616 | 0,9569616 | 0,9569616 |
| 114 | SYNPO2 | 0,8532369 | 0,8532369 | 0,8532369 | 0,8532369 | 0,8532369 |
| 115 | SYTL2 | 0,9804600 | 0,9804600 | 0,9804600 | 0,9804600 | 0,9804600 |
| 116 | TEAD3 | 0,9538625 | 0,9538625 | 0,9538625 | 0,9538625 | 0,9538625 |
| 117 | TGFBR1 | 0,9844837 | 0,9844837 | 0,9844837 | 0,9844837 | 0,9844837 |
| 118 | TGM2 | 0,9853114 | 0,9853114 | 0,9853114 | 0,9853114 | 0,9853114 |
| 119 | TM4SF20 | 0,9874997 | 0,9874997 | 0,9874997 | 0,9874997 | 0,9874997 |
| 120 | TMEM130 | 0,9991039 | 0,9991039 | 0,9991039 | 0,9991039 | 0,9991039 |
| 121 | TMEM45A | 0,9747412 | 0,9747412 | 0,9747412 | 0,9747412 | 0,9747412 |
| 122 | TNFSF4 | 0,9998756 | 0,9998756 | 0,9998756 | 0,9998756 | 0,9998756 |
| 123 | TRAM1 | 0,9746942 | 0,9746942 | 0,9746942 | 0,9746942 | 0,9746942 |
| 124 | TRIB3 | 0,9201547 | 0,9201547 | 0,9201547 | 0,9201547 | 0,9201547 |
| 125 | TSPAN2 | 0,9950350 | 0,9950350 | 0,9950350 | 0,9950350 | 0,9950350 |
| 126 | TTLL7 | 0,9847606 | 0,9847606 | 0,9847606 | 0,9847606 | 0,9847606 |
|   | Gene   | 0.9258421 | 0.9258421 | 0.9258421 | 0.9258421 | 0.9258421 |
|---|--------|-----------|-----------|-----------|-----------|-----------|
| 127| UNC5B  | 0.9930812 | 0.9930812 | 0.9930812 | 0.9930812 | 0.9930812 |
| 128| USP53  | 0.9745706 | 0.9745706 | 0.9745706 | 0.9745706 | 0.9745706 |
| 129| VCAN   | 0.9991300 | 0.9991300 | 0.9991300 | 0.9991300 | 0.9991300 |
| 130| VEGFA  | 0.9880776 | 0.9880776 | 0.9880776 | 0.9880776 | 0.9880776 |
| 131| VLDLR  | 0.8938790 | 0.8938790 | 0.8938790 | 0.8938790 | 0.8938790 |
| 132| WARS   | 0.9550107 | 0.9550107 | 0.9550107 | 0.9550107 | 0.9550107 |
| 133| WFDC1  | 0.9503610 | 0.9503610 | 0.9503610 | 0.9503610 | 0.9503610 |
| 134| WIPF3  | 0.9901755 | 0.9901755 | 0.9901755 | 0.9901755 | 0.9901755 |
| 135| WISP1  | 0.9328079 | 0.9328079 | 0.9328079 | 0.9328079 | 0.9328079 |
| 136| WNT2   | 0.9389367 | 0.9389367 | 0.9389367 | 0.9389367 | 0.9389367 |
| 137| WNT5A  | 0.9756463 | 0.9756463 | 0.9756463 | 0.9756463 | 0.9756463 |
| gene    | score   | C0       | C1       | C2       | C3       |
|---------|---------|----------|----------|----------|----------|
| ACTN1   | 0.8568832 | -1,3507554 | 0.1171616 | 0.1691050 | 1.0644889 |
| ADAM23  | 0.9528242 | -1,1432622 | 0.1029451 | -0.2352300 | 1.2755472 |
| ADIRF   | 0.8531615 | -1,3576651 | 0.1842304 | 0.1207075 | 1.0527272 |
| ALCAM   | 0.8461209 | -1,1077886 | -0.4996627 | 0.4637316 | 1.1437197 |
| ANKRD54 | 0.9382882 | -0.5520305 | -0.0087982 | -0.8460670 | 1.4068957 |
| ANLN    | 0.9611408 | -0.4482156 | -0.4482156 | -0.5997374 | 1.4961686 |
| ARHGAP11A | 0.9841218 | -1,0156900 | -0.0414513 | -0.3104412 | 1.3675825 |
| ARNTL2  | 0.9491641 | -1,0416333 | -0.3891543 | 0.1071249 | 1.3236628 |
| ARS1    | 0.9284104 | -1,1846929 | -0.1911361 | 0.1335669 | 1.2420384 |
| ASPM    | 0.9358467 | -0.3314613 | -0.5070302 | -0.6488179 | 1.4873094 |
| BHLHE40 | 0.9134637 | -1,2311945 | -0.1254788 | 0.1548226 | 1.2018507 |
| BIRC5   | 0.9844658 | -0.7522883 | -0.5073138 | -0.2018829 | 1.4614850 |
| BLID    | 0.8930357 | -1,2107154 | -0.2494901 | 0.2796459 | 1.1805596 |
| BUB1    | 0.9695554 | -0.5000000 | -0.5000000 | -0.5000000 | 1.5000000 |
| C12orf75| 0.9841873 | -1,0300584 | -0.1674527 | -0.1738772 | 1.3713883 |
| CASC5   | 0.9126248 | -0.2899557 | -0.3055890 | -0.8522721 | 1.4478168 |
| CCNA2   | 0.9743771 | -0.6090664 | -0.1711028 | -0.6812300 | 1.4613992 |
| CCNB1   | 0.9260775 | -0.3069550 | -0.6423264 | -0.5359600 | 1.4852415 |
| CDA     | 0.9625728 | -0.9906740 | -0.4097972 | 0.0407011 | 1.3597701 |
| CDC20   | 0.9463451 | -0.4494923 | -0.2188557 | -0.7898176 | 1.4581656 |
| CDH2    | 0.8328054 | -1,3539720 | 0.3849300 | -0.0394386 | 1.0084806 |
| CDK1    | 0.9613513 | -0.4489895 | -0.4585947 | -0.5893389 | 1.4969232 |
| CENPE   | 0.9611038 | -0.4486144 | -0.4380056 | -0.6087947 | 1.4954147 |
| CEP55   | 0.9594265 | -0.4392084 | -0.4787077 | -0.5794663 | 1.4973823 |
| CGB8    | 0.8840545 | -0.2308741 | -0.2308741 | -0.9495472 | 1.4112953 |
| CKAP2   | 0.9684627 | -0.4912886 | -0.4912886 | -0.5173100 | 1.4998871 |
| CKAP2L  | 0.9529380 | -0.4129379 | -0.4129379 | -0.6636143 | 1.4894901 |
| CORO1C  | 0.9466580 | -1,1415627 | -0.2093519 | 0.0669668 | 1.2839478 |
| CRLF1   | 0.8737347 | -1,2295840 | -0.2532929 | 0.3386334 | 1.1442435 |
| DEPDC1  | 0.9845339 | -0.6106532 | -0.4675510 | -0.4167317 | 1.4949359 |
| DKK1    | 0.8821380 | -0.9817625 | 0.4616644 | -0.6583844 | 1.1789825 |
| DLGAP5  | 0.9526192 | -0.4071236 | -0.5167114 | -0.5726172 | 1.4964522 |
| DLX2    | 0.9919620 | -0.9170141 | -0.0737547 | -0.4164363 | 1.4072051 |
| FANC2   | 0.9439479 | -0.3674607 | 0.5355047 | -0.5902787 | 1.4932424 |
| FBN2    | 0.9077145 | -0.4919423 | 0.0647766 | -0.9402286 | 1.3673942 |
| FGF5    | 0.9668935 | -0.4803065 | -0.4803065 | -0.5388162 | 1.4994293 |
| FLJ21369| 0.9431176 | -1,1937667 | 0.0416944 | -0.0983329 | 1.2504052 |
| FOXC2   | 0.8900783 | -1,2921136 | -0.0141337 | 0.1647070 | 1.1415403 |
| FOXL1   | 0.9764047 | -1,0727964 | -0.1366139 | -0.1366139 | 1.3460242 |
| FOXM1   | 0.8974514 | -0.2339765 | -0.3263069 | -0.8778350 | 1.4381184 |
|   |         |       |       |       |       |       |       |       |       |       |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 41 | GGT2   | 0.8779367 | -1.3062925 | -0.0187763 | 0.2068242 | 1.1182446 |
| 42 | GLIPR1 | 0.8970130 | -1.2877341 | 0.0178723 | 0.1176560 | 1.1522059 |
| 43 | GSTA1  | 0.9984666 | -0.8926778 | -0.2069956 | -0.3321039 | 1.4317773 |
| 44 | HERC4  | 0.9975610 | -0.7865028 | -0.3632989 | -0.3162796 | 1.4660813 |
| 45 | IQGAP3 | 0.9480837 | -0.3950796 | -0.3950796 | -0.6949793 | 1.4849531 |
| 46 | KIAA0101 | 0.9719012 | -1.0938888 | -0.1191994 | -0.1191994 | 1.3322876 |
| 47 | KIAA1524 | 0.9470137 | -0.4004145 | -0.3543214 | -0.7247463 | 1.4794821 |
| 48 | KIF11  | 0.9407793 | -0.3554806 | -0.4524612 | -0.6782785 | 1.4862203 |
| 49 | KIF14  | 0.9695554 | -0.5000000 | -0.5000000 | -0.5000000 | 1.5000000 |
| 50 | KIF18A | 0.9453488 | -0.4314037 | -0.2491982 | -0.7822367 | 1.4628386 |
| 51 | KIF20A | 0.9192348 | -0.3115347 | -0.3075881 | -0.8342653 | 1.4533881 |
| 52 | KRT19  | 0.8498145 | -1.0080465 | -0.6215852 | 0.4476482 | 1.1819836 |
| 53 | LINC00152 | 0.9531490 | -1.1456947 | -0.1507769 | 0.0062736 | 1.2901979 |
| 54 | LMNB1  | 0.9100954 | -0.2490742 | -0.4163549 | -0.7949407 | 1.4603698 |
| 55 | LMO7DN | 0.8631226 | -1.3443767 | 0.1928308 | 0.0795680 | 1.0719779 |
| 56 | LPXN   | 0.9435876 | -1.1918809 | -0.0320262 | -0.0320262 | 1.2559333 |
| 57 | LY6K   | 0.9989424 | -0.8064829 | -0.3273799 | -0.3273799 | 1.4612427 |
| 58 | MIR197 | 0.8601863 | -0.5589223 | -0.9422120 | 0.1704206 | 1.3307138 |
| 59 | MKI67  | 0.9572034 | -0.4302665 | -0.4302665 | -0.6326265 | 1.4931595 |
| 60 | MYBL1  | 0.9947402 | -0.7064580 | -0.3882869 | -0.3882869 | 1.4830319 |
| 61 | MYPN   | 0.9753562 | -0.5789238 | 0.5537971 | -0.3600918 | 1.4928127 |
| 62 | NCAPG  | 0.9335668 | -0.3221996 | -0.5059816 | -0.6576435 | 1.4858247 |
| 63 | NETO2  | 0.9804027 | -0.5864869 | -0.4998585 | -0.4097443 | 1.4960897 |
| 64 | NGF    | 0.9127119 | -1.1415165 | -0.3353733 | 0.2415228 | 1.2353670 |
| 65 | NUSAP1 | 0.9076644 | -0.2824041 | -0.2824041 | -0.8753938 | 1.4402019 |
| 66 | PEAR1 | 0.9520433 | -1.1193323 | -0.2336012 | 0.0532400 | 1.2997943 |
| 67 | PEG10  | 0.9562570 | -0.4262600 | -0.4262600 | -0.6398567 | 1.4923767 |
| 68 | PLK1   | 0.9422939 | -0.3756534 | -0.3756534 | -0.7278724 | 1.4791791 |
| 69 | PRC1   | 0.9695554 | -0.5000000 | -0.5000000 | -0.5000000 | 1.5000000 |
| 70 | PRR11  | 0.9670243 | -0.5829566 | -0.1490193 | -0.7226030 | 1.4545789 |
| 71 | PRRX2  | 0.9313195 | -0.9983736 | 0.2942949 | -0.5614094 | 1.2654881 |
| 72 | PRUNE2 | 0.8660440 | -1.1516991 | -0.4088930 | 0.4003804 | 1.1602117 |
| 73 | SCFD2  | 0.9440573 | -0.7922106 | 0.1762234 | -0.7292208 | 1.3452080 |
| 74 | SERTAD2 | 0.9663666 | -1.0775678 | -0.2410438 | -0.0157413 | 1.3343529 |
| 75 | SH2D4A | 0.9435067 | -1.1476509 | -0.2112938 | 0.0816066 | 1.2773381 |
| 76 | SHCBP1 | 0.9606906 | -0.4473652 | -0.4283044 | -0.6188158 | 1.4944854 |
| 77 | SLC17A9 | 0.9107927 | -0.9576815 | -0.5886196 | 0.2531266 | 1.2931744 |
| 78 | SLC7A1 | 0.8866955 | -1.3073067 | 0.1891266 | -0.0021661 | 1.1203462 |
| 79 | SMS    | 0.9861292 | -1.0165347 | -0.1811246 | -0.1811246 | 1.3787839 |
| 80 | SMYD2  | 0.9767701 | -1.0737696 | -0.1147977 | -0.1565474 | 1.3451146 |
| 81 | SND1-IT1 | 0.9911941 | -0.6630613 | -0.4132507 | -0.4132507 | 1.4895628 |
| 82 | SPAG5  | 0.9747816 | -0.5301932 | -0.4760453 | -0.4933792 | 1.4996176 |
| 83 | TK1    | 0.9194475 | -0.2828781 | -0.3854581 | -0.7903757 | 1.4641120 |
|   | Gene   |    |    |    |    |    |
|---|--------|----|----|----|----|----|
| 84 | TM4SF1 | 0.9029901 | -1.2208552 | 0.3103213 | -0.2513720 | 1.1619059 |
| 85 | TMEM14A | 0.9486901 | -1.1620589 | -0.1309735 | 0.0154462 | 1.2775862 |
| 86 | TMSB10 | 0.9584464 | -1.0807462 | 0.1383278 | -0.3560686 | 1.2984869 |
| 87 | TNFRSF12A | 0.8907786 | -1.2518115 | -0.1556301 | 0.2463910 | 1.1610506 |
| 88 | TOP2A | 0.8382911 | -0.0102496 | -0.6744114 | -0.7325379 | 1.4171988 |
| 89 | TPX2 | 0.9373593 | -0.3630396 | -0.3507059 | -0.7590330 | 1.4727785 |
| 90 | TRAJS46 | 0.9486506 | -1.1791821 | 0.0089647 | -0.0948710 | 1.2650884 |
| 91 | TRIB1 | 0.9223123 | -0.6191533 | -0.7940886 | 0.0039666 | 1.4092753 |
| 92 | UCHL1 | 0.9694079 | -1.1046476 | -0.1101503 | -0.1101503 | 1.3249481 |
| 93 | VAT1L | 0.9501265 | -0.4304336 | -0.6323241 | -0.4304336 | 1.4931912 |
| 94 | XYL1T | 0.9844019 | -0.5938379 | -0.4170548 | -0.4851267 | 1.4960194 |
| 95 | ZNF185 | 0.8901705 | -1.2964101 | 0.2154171 | -0.0462928 | 1.1272858 |
| gene  | score  | C0    | C1    | C2    | C3    |
|-------|--------|-------|-------|-------|-------|
| ABCA6 | 0,9525048 | 1,2877365 | 0,0995050 | -0,2637288 | -1,1235126 |
| ABCA8 | 0,9159840 | 0,9224397 | -0,4968921 | 0,7389766 | -1,1645243 |
| ABCA9 | 0,9896959 | 1,2412941 | -0,0167792 | -0,0167792 | -1,2077358 |
| ACVR2A| 0,9062180 | 0,7099772 | 0,1424725 | 0,6109002 | -1,4543499 |
| ADM   | 0,9884582 | 1,0450597 | -0,0444796 | 0,3379496 | -1,3385297 |
| ALDH3A2| 0,9143351 | 1,3779140 | 0,0098203 | -0,4308524 | -0,9568819 |
| ANGPTL2| 0,9690933 | 1,3609694 | -0,1448893 | -0,1679583 | -1,0481218 |
| APOD  | 0,9380238 | 1,4292203 | -0,2617601 | -0,2617601 | -0,9057000 |
| ARHGAP12| 0,9850948 | 1,2193329 | 0,0463200 | -0,0369477 | -1,2287053 |
| BMPER | 0,8131799 | 1,2640964 | -0,9819644 | 0,3050322 | -0,5871642 |
| BRINP1| 0,9043215 | 1,3800257 | 0,0226435 | -0,4654576 | -0,9372116 |
| C1R   | 0,9590991 | 1,3998555 | -0,2586806 | -0,1691220 | -0,9720528 |
| C1S   | 0,9913673 | 1,1227542 | -0,2576852 | 0,3733343 | -1,2384033 |
| CACNG8| 0,9982975 | 1,2285173 | -0,2351807 | 0,1896539 | -1,1829905 |
| CELF2 | 0,8677785 | 1,3088190 | -0,8567105 | 0,2487293 | -0,7008378 |
| CTNS  | 0,9870240 | 1,1291749 | 0,0890745 | 0,0890745 | -1,3073238 |
| CYBRD1| 0,9889356 | 1,2548100 | -0,0308421 | -0,0308421 | -1,1931259 |
| DDK2  | 0,9731872 | 0,9565586 | -0,0352908 | 0,4502402 | -1,3715079 |
| DPP4  | 0,9445840 | 1,3507519 | -0,5936922 | 0,1393646 | -0,8964242 |
| DPT   | 0,9960547 | 1,1117063 | -0,1143598 | 0,2930594 | -1,2904058 |
| DRAM1 | 0,9798302 | 1,3497737 | -0,3205264 | 0,0077262 | -1,0369735 |
| FAM20A| 0,9813359 | 1,1424956 | -0,3836771 | 0,4141879 | -1,1730064 |
| FBLN1 | 0,9853542 | 1,3288833 | -0,3053091 | 0,0436422 | -1,0672164 |
| FIBIN | 0,8627578 | 0,6030540 | -0,0742172 | 0,8515976 | -1,3804344 |
| FMOD  | 0,8476691 | 0,7947125 | -0,6162079 | 0,9039214 | -1,0824260 |
| FOS   | 0,8355584 | 1,0100942 | 0,6091982 | -0,4239434 | -1,1953490 |
| GAA   | 0,9412241 | 0,9532072 | -0,4012214 | 0,6668945 | -1,2188803 |
| GAS1  | 0,9476324 | 0,8914885 | -0,2136030 | 0,6433652 | -1,3212506 |
| HERC2 | 0,9933866 | 1,2330330 | -0,0420358 | 0,0244311 | -1,2154283 |
| HEXB  | 0,9453098 | 1,3249086 | 0,0540240 | -0,3080406 | -1,0708920 |
| HSPA4L| 0,9782800 | 1,2512164 | 0,0479806 | -0,1072891 | -1,1919079 |
| ICAM1 | 0,8749482 | 0,9058619 | -0,6565103 | 0,8019634 | -1,0513150 |
| IL1R1 | 0,9600606 | 1,3952151 | -0,4005875 | -0,0510726 | -0,9435550 |
| IL6ST | 0,9592794 | 1,3939589 | -0,2165530 | -0,1907600 | -0,9866720 |
| KIT   | 0,8710060 | 1,3718210 | -0,8068314 | 0,1096298 | -0,6746194 |
| LCE1C | 0,9519995 | 0,9148712 | 0,2554021 | 0,2554021 | -1,4256754 |
| LSAMP | 0,9492336 | 1,3745997 | -0,0794910 | -0,2832033 | -1,0119055 |
| MDM2  | 0,8506981 | 0,7213076 | 0,6333259 | 0,0846208 | -1,4392543 |
| MFAP4 | 0,9898472 | 1,3063604 | -0,1769960 | -0,0059501 | -1,1234142 |
| MME   | 0,9995382 | 1,2227703 | -0,1683642 | 0,1512511 | -1,2056572 |
|   | mtss1l | myo1d | nfkbiZ | pappa | pcdhb7 | pcsk7 | pfgf  | pdpn  | plnx1 | ptgds | rab29  | rcan2  | sectm1 | serpinf1 | serping1 | sfrp2 | slc1a3 | slc40a1 | smpld3a | sned1  | snora11 | snora72 | snord116 | snx2   | sulf2  | thbs2  | tmtc1  | tnxb  | tp53inp1 | tpp1   | wls    | zmym6nb | znf600  | znf836   |
|---|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 41| 0.9833271 | 1.0492506 | -0.2188139 | 0.4526472 | -1.2830839 | 0.9793475 | 1.3098991 | -0.4234904 | 0.1534363 | -1.0398450 | 0.9092357 | 1.2954594 | 0.1875033 | -0.4356725 | -1.0472903 | 0.8661122 | 0.5982307 | 0.3451216 | 0.5476507 | -1.4910030 | 0.9379033 | 1.3280634 | 0.0683858 | -0.3400795 | -1.0563697 | 0.8020695 | 0.9845832 | 0.6682434 | -0.4961643 | -1.1566623 | 0.9827921 | 1.2987689 | -0.4035104 | 0.1645940 | -1.0598525 | 0.9911794 | 1.2839574 | -0.1167402 | -0.0106221 | -1.1565951 | 0.9355737 | 1.4199430 | -0.1900301 | -0.3056771 | -0.9242358 | 0.9956936 | 1.2357970 | -0.2883221 | 0.2121277 | -1.1596025 | 0.9623336 | 1.2739995 | 0.0871438 | -0.2099466 | -1.1511966 | 0.9233436 | 1.4325139 | -0.5388687 | -0.0875014 | -0.8061438 | 0.9673543 | 1.1477701 | 0.2022116 | -0.0706280 | -1.2793537 | 0.9532127 | 1.4062187 | -0.2347313 | -0.2107378 | -0.9607496 | 0.9639445 | 1.2599811 | -0.5433355 | 0.2975902 | -1.0142357 | 0.8262352 | 0.4879805 | 0.0708254 | 0.8609319 | -1.4197377 | 0.9271886 | 1.4108317 | -0.1194300 | -0.3615958 | -0.9298058 | 0.9896370 | 1.2425482 | -0.0180700 | -0.0180700 | -1.2064083 | 0.9833706 | 1.0644665 | 0.1086932 | 0.1772739 | -1.3504336 | 0.9850567 | 1.2728858 | -0.0303394 | -0.0704192 | -1.1721273 | 0.8388690 | 0.5260639 | 0.0183091 | 0.8624391 | -1.4068121 | 0.8270676 | 0.5365734 | 0.5365734 | 0.4247684 | -1.4979152 | 0.8198534 | 0.5000000 | 0.5000000 | 0.5000000 | -1.5000000 | 0.9594109 | 1.2007664 | 0.1906013 | -0.1694333 | -1.2219344 | 0.8183675 | 0.4594405 | 0.2880002 | 0.7277870 | -1.4752276 | 0.8591600 | 0.7628941 | -0.5158489 | 0.9063747 | -1.1534199 | 0.9837387 | 1.0957131 | 0.1176731 | 0.1176731 | -1.3310593 | 0.9841853 | 1.2997727 | -0.0802523 | -0.0802523 | -1.1392226 | 0.9052519 | 0.8235911 | 0.4674565 | 0.1512761 | -1.4423237 | 0.8570559 | 1.2625075 | 0.3054472 | -0.5796053 | -0.9883494 | 0.9902671 | 1.2244861 | 0.0002587 | 0.0002587 | -1.2250035 | 0.9226857 | 0.7575268 | 0.0286326 | 0.6355870 | -1.4217463 | 0.9743478 | 1.3138360 | -0.4550603 | 0.1523376 | -1.0156632 | 0.9359521 | 1.4009479 | -0.1140303 | -0.3301986 | -0.9567189 | 0.9800364 | 1.3519960 | -0.2770995 | -0.0287139 | -1.0461827 |