

Supplementary Table S1: GO analysis of the target cluster

| ONTID | Descriptor | GeneRatio | BgRatio | pvalue | p.adjust | qvalue | geneID | Count |
|-------------|----------------------|-----------|-----------|----------|----------|----------|---------|-------|
| GO:003158BP | GO:003:cell-substr. | 83/2103 | 364/18800 | 1.42E-10 | 7.01E-07 | 6.14E-07 | ACTG1/ | 83 |
| GO:003444BP | GO:003:substrate a | 37/2103 | 109/18800 | 2.35E-10 | 7.01E-07 | 6.14E-07 | ACTN4/ | 37 |
| GO:002266BP | GO:002:regulation | 70/2103 | 305/18800 | 2.93E-09 | 5.82E-06 | 5.10E-06 | ACTN4/ | 70 |
| GO:003297BP | GO:003:regulation | 80/2103 | 393/18800 | 6.92E-08 | 8.41E-05 | 7.37E-05 | ACTG1/ | 80 |
| GO:001081BP | GO:001:regulation | 52/2103 | 217/18800 | 7.07E-08 | 8.41E-05 | 7.37E-05 | ACTG1/ | 52 |
| GO:001076BP | GO:001:regulation | 30/2103 | 96/18800 | 9.72E-08 | 9.64E-05 | 8.45E-05 | ACTN4/ | 30 |
| GO:003295BP | GO:003:regulation | 73/2103 | 352/18800 | 1.19E-07 | 0.000101 | 8.87E-05 | ACTG1/ | 73 |
| GO:003134BP | GO:003:positive re | 70/2103 | 341/18800 | 3.23E-07 | 0.00024 | 0.00021 | ACTR2/ | 70 |
| GO:190265BP | GO:190:secondary | 38/2103 | 149/18800 | 7.64E-07 | 0.000505 | 0.00044 | ABCA1/ | 38 |
| GO:008502BP | GO:008:extracellul | 18/2103 | 46/18800 | 8.97E-07 | 0.000534 | 0.00047 | AGT/AN | 18 |
| GO:000701BP | GO:000:actin filam | 84/2103 | 450/18800 | 1.53E-06 | 0.000826 | 0.00072 | ACTG1/ | 84 |
| GO:190002BP | GO:190:regulation | 20/2103 | 58/18800 | 2.35E-06 | 0.001168 | 0.00102 | ACTN4/ | 20 |
| GO:000826BP | GO:000:cholesterol | 35/2103 | 139/18800 | 2.82E-06 | 0.00127 | 0.00111 | ABCA1/ | 35 |
| GO:006056BP | GO:006:epithelial ti | 65/2103 | 328/18800 | 2.99E-06 | 0.00127 | 0.00111 | ACVRL1 | 65 |
| GO:003025BP | GO:003:lipid modif | 47/2103 | 216/18800 | 5.32E-06 | 0.00208 | 0.00182 | ABCD2/ | 47 |
| GO:000606BP | GO:000:alcohol me | 69/2103 | 361/18800 | 5.59E-06 | 0.00208 | 0.00182 | ABCA1/ | 69 |
| GO:004576BP | GO:004:positive re | 81/2103 | 446/18800 | 6.90E-06 | 0.002414 | 0.00212 | ADAM1 | 81 |
| GO:000716BP | GO:000:establishm | 47/2103 | 219/18800 | 7.86E-06 | 0.002598 | 0.00228 | ACTB/A | 47 |
| GO:000665BP | GO:000:cholesterol | 19/2103 | 58/18800 | 9.87E-06 | 0.002879 | 0.00252 | ABCG1/ | 19 |
| GO:190265BP | GO:190:secondary | 19/2103 | 58/18800 | 9.87E-06 | 0.002879 | 0.00252 | ABCG1/ | 19 |
| GO:006084BP | GO:006:artery dev | 28/2103 | 106/18800 | 1.03E-05 | 0.002879 | 0.00252 | ACVRL1 | 28 |
| GO:003016BP | GO:003:extracellul | 60/2103 | 307/18800 | 1.11E-05 | 0.002879 | 0.00252 | ADAM1 | 60 |
| GO:001077BP | GO:001:positive re | 23/2103 | 79/18800 | 1.11E-05 | 0.002879 | 0.00252 | ACTR2/ | 23 |
| GO:004428BP | GO:004:small mole | 70/2103 | 376/18800 | 1.22E-05 | 0.002917 | 0.00256 | ABCD2/ | 70 |
| GO:004306BP | GO:004:extracellul | 60/2103 | 308/18800 | 1.23E-05 | 0.002917 | 0.00256 | ADAM1 | 60 |
| GO:004617BP | GO:004:polyol cata | 12/2103 | 27/18800 | 1.29E-05 | 0.002945 | 0.00258 | BPNT2/ | 12 |
| GO:004522BP | GO:004:external er | 60/2103 | 310/18800 | 1.50E-05 | 0.003314 | 0.0029 | ADAM1 | 60 |
| GO:006157BP | GO:006:actin filam | 37/2103 | 162/18800 | 1.67E-05 | 0.003425 | 0.003 | ACTG1/ | 37 |
| GO:001612BP | GO:001:sterol bios | 20/2103 | 65/18800 | 1.67E-05 | 0.003425 | 0.003 | ABCG1/ | 20 |
| GO:007171BP | GO:007:basement | 13/2103 | 32/18800 | 1.84E-05 | 0.003648 | 0.0032 | CAV1/C | 13 |
| GO:000166BP | GO:000:ameboidal | 84/2103 | 480/18800 | 1.99E-05 | 0.003814 | 0.00334 | ACVR1C | 84 |
| GO:001081BP | GO:001:negative re | 20/2103 | 66/18800 | 2.15E-05 | 0.003927 | 0.00344 | ACTN4/ | 20 |
| GO:005101BP | GO:005:actin filam | 36/2103 | 158/18800 | 2.28E-05 | 0.003927 | 0.00344 | ACTG1/ | 36 |
| GO:190296BP | GO:190:regulation | 69/2103 | 376/18800 | 2.28E-05 | 0.003927 | 0.00344 | ACTG1/ | 69 |
| GO:001081BP | GO:001:positive re | 30/2103 | 122/18800 | 2.31E-05 | 0.003927 | 0.00344 | APOA1/ | 30 |
| GO:000716BP | GO:000:cell-matrix | 48/2103 | 235/18800 | 2.51E-05 | 0.004146 | 0.00363 | ACTG1/ | 48 |
| GO:000327BP | GO:000:cardiac seq | 27/2103 | 106/18800 | 2.98E-05 | 0.004746 | 0.00416 | ADAMT | 27 |
| GO:006028BP | GO:006:regulation | 86/2103 | 500/18800 | 3.07E-05 | 0.004746 | 0.00416 | ACTN4/ | 86 |
| GO:001612BP | GO:001:sterol met | 35/2103 | 154/18800 | 3.11E-05 | 0.004746 | 0.00416 | ABCA1/ | 35 |
| GO:004306BP | GO:004:regulation | 66/2103 | 364/18800 | 4.98E-05 | 0.007415 | 0.0065 | ABR/AG | 66 |
| GO:007207BP | GO:007:kidney epit | 32/2103 | 140/18800 | 5.93E-05 | 0.008609 | 0.00755 | AGT/CA | 32 |
| GO:011005BP | GO:011:regulation | 52/2103 | 270/18800 | 6.19E-05 | 0.008773 | 0.00769 | ACTG1/ | 52 |
| GO:001097BP | GO:001:regulation | 75/2103 | 431/18800 | 6.55E-05 | 0.009068 | 0.00795 | ACTR2/ | 75 |
| GO:007206BP | GO:007:nephron ej | 27/2103 | 111/18800 | 7.09E-05 | 0.009465 | 0.0083 | AGT/CA | 27 |
| GO:002261BP | GO:002:gland mor | 29/2103 | 123/18800 | 7.16E-05 | 0.009465 | 0.0083 | BTBD7/ | 29 |
| GO:190228BP | GO:190:semaphori | 8/2103 | 15/18800 | 7.53E-05 | 0.009744 | 0.00854 | ECE1/EE | 8 |
| GO:000176BP | GO:000:morphoge | 24/2103 | 94/18800 | 7.75E-05 | 0.009816 | 0.0086 | ACTB/A | 24 |
| GO:004428BP | GO:004:cellular car | 54/2103 | 287/18800 | 8.63E-05 | 0.01059 | 0.00928 | ACADM | 54 |
| GO:007154BP | GO:007:inositol ph | 9/2103 | 19/18800 | 8.72E-05 | 0.01059 | 0.00928 | BPNT2/I | 9 |
| GO:004408BP | GO:004:positive re | 83/2103 | 494/18800 | 9.64E-05 | 0.011467 | 0.01005 | ABCA1/ | 83 |
| GO:007021BP | GO:007:protein aut | 7/2103 | 12/18800 | 0.0001 | 0.012034 | 0.01055 | PARP1/I | 7 |
| GO:001605BP | GO:001:Wnt signal | 77/2103 | 452/18800 | 0.00011 | 0.012345 | 0.01082 | AMOTL | 77 |
| GO:001076BP | GO:001:positive re | 55/2103 | 297/18800 | 0.00012 | 0.012814 | 0.01123 | ACTR2/ | 55 |
| GO:003195BP | GO:003:regulation | 14/2103 | 42/18800 | 0.00012 | 0.012814 | 0.01123 | CAV1/C | 14 |
| GO:004648BP | GO:004:glycerolipi | 69/2103 | 396/18800 | 0.00012 | 0.013094 | 0.01148 | ABHD2/ | 69 |
| GO:019873BP | GO:019:cell-cell sig | 77/2103 | 454/18800 | 0.00012 | 0.013259 | 0.01162 | AMOTL | 77 |

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|-------------|-----------------------------|-----------|---------|----------|-----------------|----|
| GO:00722(BP | GO:007:metanephri10/2103 | 24/18800 | 0.00013 | 0.013703 | 0.01201 CALB1/I | 10 |
| GO:19012(BP | GO:190:regulation 8/2103 | 16/18800 | 0.00014 | 0.013703 | 0.01201 AGT/AN | 8 |
| GO:19022(BP | GO:190:semaphori8/2103 | 16/18800 | 0.00014 | 0.013703 | 0.01201 ECE1/EC | 8 |
| GO:00019(BP | GO:000:negative re61/2103 | 341/18800 | 0.00014 | 0.013828 | 0.01212 ADAR/A | 61 |
| GO:00721(BP | GO:007:metanephri9/2103 | 20/18800 | 0.00014 | 0.013933 | 0.01221 CALB1/I | 9 |
| GO:00603(BP | GO:006:bone deve44/2103 | 225/18800 | 0.00015 | 0.014622 | 0.01282 ADAMT | 44 |
| GO:00715(BP | GO:007:semaphori14/2103 | 43/18800 | 0.00015 | 0.014622 | 0.01282 ECE1/EC | 14 |
| GO:00219(BP | GO:002:neural tube33/2103 | 154/18800 | 0.00017 | 0.016006 | 0.01403 APAF1/I | 33 |
| GO:00019(BP | GO:000:regulation 28/2103 | 123/18800 | 0.00018 | 0.01645 | 0.01442 ACTG1/I | 28 |
| GO:00315(BP | GO:003:actin cytos26/2103 | 111/18800 | 0.00019 | 0.016706 | 0.01464 ANTXR1 | 26 |
| GO:00059(BP | GO:000:monosaccl49/2103 | 261/18800 | 0.00019 | 0.016804 | 0.01473 ACADM | 49 |
| GO:00018(BP | GO:000:kidney dev55/2103 | 303/18800 | 0.0002 | 0.016991 | 0.01489 ADAMT | 55 |
| GO:00107(BP | GO:001:negative re7/2103 | 13/18800 | 0.0002 | 0.016991 | 0.01489 ACTN4/I | 7 |
| GO:19000(BP | GO:190:negative re7/2103 | 13/18800 | 0.0002 | 0.016991 | 0.01489 ACTN4/I | 7 |
| GO:00515(BP | GO:005:regulation 13/2103 | 39/18800 | 0.0002 | 0.016991 | 0.01489 BCOR/B | 13 |
| GO:00512(BP | GO:005:protein tet22/2103 | 88/18800 | 0.00021 | 0.017409 | 0.01526 ACACA/I | 22 |
| GO:00613(BP | GO:006:renal tubul23/2103 | 94/18800 | 0.00022 | 0.017571 | 0.0154 AGT/CA | 23 |
| GO:00193(BP | GO:001:hexose me46/2103 | 242/18800 | 0.00022 | 0.017573 | 0.0154 ACADM | 46 |
| GO:00722(BP | GO:007:metanephri9/2103 | 21/18800 | 0.00023 | 0.017868 | 0.01566 CALB1/I | 9 |
| GO:00109(BP | GO:001:positive re32/2103 | 150/18800 | 0.00023 | 0.018118 | 0.01588 ACTR2/I | 32 |
| GO:00720(BP | GO:007:renal syste56/2103 | 312/18800 | 0.00023 | 0.018118 | 0.01588 ADAMT | 56 |
| GO:19030(BP | GO:190:regulation 15/2103 | 50/18800 | 0.00025 | 0.019377 | 0.01698 AGT/AN | 15 |
| GO:00030(BP | GO:000:regulation 6/2103 | 10/18800 | 0.00027 | 0.020305 | 0.0178 CORO2I | 6 |
| GO:00989(BP | GO:009:postsynapt6/2103 | 10/18800 | 0.00027 | 0.020305 | 0.0178 ACTB/A | 6 |
| GO:00467(BP | GO:004:protein aut43/2103 | 224/18800 | 0.00028 | 0.020305 | 0.0178 ATM/AT | 43 |
| GO:00514(BP | GO:005:negative re34/2103 | 165/18800 | 0.0003 | 0.021941 | 0.01923 ADD1/A | 34 |
| GO:00325(BP | GO:003:regulation 61/2103 | 351/18800 | 0.00031 | 0.022407 | 0.01964 ADD1/A | 61 |
| GO:00066(BP | GO:000:glycerophc55/2103 | 309/18800 | 0.00033 | 0.022835 | 0.02001 ABHD4/I | 55 |
| GO:00359(BP | GO:003:aorta deve17/2103 | 62/18800 | 0.00034 | 0.022835 | 0.02001 ACVRL1 | 17 |
| GO:00310(BP | GO:003:regulation 20/2103 | 79/18800 | 0.00034 | 0.022835 | 0.02001 BCOR/B | 20 |
| GO:00066(BP | GO:000:phospholip66/2103 | 388/18800 | 0.00034 | 0.022835 | 0.02001 ABHD4/I | 66 |
| GO:00016(BP | GO:000:urogenital 61/2103 | 352/18800 | 0.00034 | 0.022835 | 0.02001 ADAMT | 61 |
| GO:00219(BP | GO:002:dorsal/ven9/2103 | 22/18800 | 0.00034 | 0.022963 | 0.02013 CDK20/I | 9 |
| GO:00720(BP | GO:007:nephron tu22/2103 | 91/18800 | 0.00035 | 0.023167 | 0.0203 AGT/CA | 22 |
| GO:00215(BP | GO:002:neural tube12/2103 | 36/18800 | 0.00035 | 0.023167 | 0.0203 CDK20/I | 12 |
| GO:00019(BP | GO:000:lymphangi8/2103 | 18/18800 | 0.00038 | 0.024053 | 0.02108 ACVRL1 | 8 |
| GO:00722(BP | GO:007:metanephri8/2103 | 18/18800 | 0.00038 | 0.024053 | 0.02108 CALB1/I | 8 |
| GO:00002(BP | GO:000:polysaccha19/2103 | 74/18800 | 0.00039 | 0.024457 | 0.02144 ACADM | 19 |
| GO:00072(BP | GO:000:Ras proteir60/2103 | 347/18800 | 0.0004 | 0.02499 | 0.0219 ABCA1/I | 60 |
| GO:01501(BP | GO:015:cell-substr.23/2103 | 98/18800 | 0.00041 | 0.02537 | 0.02223 ACTG1/I | 23 |
| GO:00070(BP | GO:000:cell-substr.22/2103 | 92/18800 | 0.00041 | 0.02537 | 0.02223 ACTG1/I | 22 |
| GO:00181(BP | GO:001:protein hyc10/2103 | 27/18800 | 0.00042 | 0.02548 | 0.02233 ASPH/E | 10 |
| GO:00900(BP | GO:009:regulation 79/2103 | 487/18800 | 0.00043 | 0.025992 | 0.02278 ADD1/A | 79 |
| GO:01200(BP | GO:012:regulation 38/2103 | 195/18800 | 0.00045 | 0.026438 | 0.02317 ACTR2/I | 38 |
| GO:00182(BP | GO:001:peptidyl-ly66/2103 | 392/18800 | 0.00045 | 0.026438 | 0.02317 ACTB/A | 66 |
| GO:00033(BP | GO:000:metanephri11/2103 | 32/18800 | 0.00046 | 0.026438 | 0.02317 CALB1/I | 11 |
| GO:00610(BP | GO:006:cell differei16/2103 | 58/18800 | 0.00046 | 0.026438 | 0.02317 EXT1/FC | 16 |
| GO:19000(BP | GO:190:positive re13/2103 | 42/18800 | 0.00046 | 0.026438 | 0.02317 APOA1/I | 13 |
| GO:00300(BP | GO:003:establishm30/2103 | 143/18800 | 0.00049 | 0.027247 | 0.02388 AMOTL | 30 |
| GO:00609(BP | GO:006:kidney mo22/2103 | 93/18800 | 0.00049 | 0.027247 | 0.02388 AGT/CA | 22 |
| GO:00363(BP | GO:003:lymph vess9/2103 | 23/18800 | 0.00051 | 0.028085 | 0.02461 ACVRL1 | 9 |
| GO:00020(BP | GO:000:epithelial c39/2103 | 203/18800 | 0.00051 | 0.028085 | 0.02461 ADD1/A | 39 |
| GO:00082(BP | GO:000:regulation 36/2103 | 183/18800 | 0.00052 | 0.028342 | 0.02484 ACVRL1 | 36 |
| GO:00604(BP | GO:006:mesenchyrr53/2103 | 301/18800 | 0.00054 | 0.029046 | 0.02546 ACVRL1 | 53 |
| GO:01200(BP | GO:012:positive re24/2103 | 106/18800 | 0.00055 | 0.029046 | 0.02546 ACTR2/I | 24 |
| GO:00604(BP | GO:006:regulation 38/2103 | 197/18800 | 0.00055 | 0.029046 | 0.02546 ACTR2/I | 38 |
| GO:00066(BP | GO:000:fatty acid t19/2103 | 76/18800 | 0.00055 | 0.029046 | 0.02546 ABCD2/I | 19 |
| GO:00066(BP | GO:000:fatty acid r66/2103 | 395/18800 | 0.00056 | 0.029046 | 0.02546 AACS/A | 66 |
| GO:00159(BP | GO:001:sterol trans22/2103 | 94/18800 | 0.00057 | 0.029381 | 0.02575 ABCA1/I | 22 |

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|-------------|---------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:200122BP | GO:200:regulation | 13/2103 | 43/18800 | 0.0006 | 0.030534 | 0.02676 | ADGRG: | 13 |
| GO:004501BP | GO:004:glycerolipic | 46/2103 | 253/18800 | 0.00061 | 0.030884 | 0.02707 | ABHD4/ | 46 |
| GO:001657BP | GO:001:histone me | 32/2103 | 158/18800 | 0.00061 | 0.030952 | 0.02713 | ARID4B/ | 32 |
| GO:007200BP | GO:007:nephron d | 30/2103 | 145/18800 | 0.00062 | 0.030953 | 0.02713 | AGT/CA | 30 |
| GO:003000BP | GO:003:contractile | 24/2103 | 107/18800 | 0.00063 | 0.031108 | 0.02726 | ACTG1/ | 24 |
| GO:004314BP | GO:004:stress fiber | 24/2103 | 107/18800 | 0.00063 | 0.031108 | 0.02726 | ACTG1/ | 24 |
| GO:006110BP | GO:006:morphoge | 36/2103 | 185/18800 | 0.00064 | 0.031272 | 0.02741 | AGT/BTI | 36 |
| GO:000307BP | GO:000:regulation | 22/2103 | 95/18800 | 0.00066 | 0.032034 | 0.02808 | ADM5/ | 22 |
| GO:004470BP | GO:004:cilium orga | 64/2103 | 384/18800 | 0.00072 | 0.034096 | 0.02988 | ACTR2/ | 64 |
| GO:006027BP | GO:006:cilium asse | 60/2103 | 355/18800 | 0.00072 | 0.034096 | 0.02988 | ACTR2/ | 60 |
| GO:003490BP | GO:003:histone lys | 27/2103 | 127/18800 | 0.00073 | 0.034096 | 0.02988 | ARID4B/ | 27 |
| GO:002180BP | GO:002:cerebral cc | 9/2103 | 24/18800 | 0.00073 | 0.034096 | 0.02988 | ADGRG: | 9 |
| GO:002200BP | GO:002:telencepha | 9/2103 | 24/18800 | 0.00073 | 0.034096 | 0.02988 | ADGRG: | 9 |
| GO:000900BP | GO:000:fatty acid c | 23/2103 | 102/18800 | 0.00075 | 0.034663 | 0.03038 | ABCD2/ | 23 |
| GO:001631BP | GO:001:dephospho | 69/2103 | 422/18800 | 0.00078 | 0.035567 | 0.03117 | ACP2/A | 69 |
| GO:004610BP | GO:004:alcohol cat | 15/2103 | 55/18800 | 0.00078 | 0.035586 | 0.03119 | ALDH3E | 15 |
| GO:003280BP | GO:003:regulation | 12/2103 | 39/18800 | 0.0008 | 0.036285 | 0.0318 | AP2A1/I | 12 |
| GO:000730BP | GO:000:determinat | 27/2103 | 128/18800 | 0.00083 | 0.037129 | 0.03254 | ACVR2A | 27 |
| GO:003080BP | GO:003:cortical cyt | 16/2103 | 61/18800 | 0.00085 | 0.037423 | 0.0328 | AKAP11 | 16 |
| GO:005070BP | GO:005:positive re | 41/2103 | 222/18800 | 0.00085 | 0.037423 | 0.0328 | ACTR2/I | 41 |
| GO:007130BP | GO:007:cellular res | 42/2103 | 229/18800 | 0.00086 | 0.037423 | 0.0328 | ACTN4/ | 42 |
| GO:003540BP | GO:003:response t | 8/2103 | 20/18800 | 0.00088 | 0.038279 | 0.03355 | ADAR/A | 8 |
| GO:000320BP | GO:000:ventricular | 18/2103 | 73/18800 | 0.00091 | 0.0394 | 0.03453 | BMPR2/ | 18 |
| GO:003030BP | GO:003:cholesterol | 19/2103 | 79/18800 | 0.00092 | 0.039576 | 0.03469 | ABCA1/ | 19 |
| GO:000860BP | GO:000:phospholip | 46/2103 | 258/18800 | 0.00093 | 0.039588 | 0.0347 | ABHD4/ | 46 |
| GO:004870BP | GO:004:mesenchym | 44/2103 | 244/18800 | 0.00094 | 0.039588 | 0.0347 | ADAM1 | 44 |
| GO:004590BP | GO:004:negative re | 71/2103 | 440/18800 | 0.00095 | 0.03963 | 0.03473 | ADAR/A | 71 |
| GO:004640BP | GO:004:phosphatic | 32/2103 | 162/18800 | 0.00096 | 0.03963 | 0.03473 | ATG14/ | 32 |
| GO:000200BP | GO:000:chondrocy | 24/2103 | 110/18800 | 0.00096 | 0.03963 | 0.03473 | ACVRL1 | 24 |
| GO:003190BP | GO:003:negative re | 6/2103 | 12/18800 | 0.00099 | 0.040133 | 0.03517 | CAV1/C | 6 |
| GO:009910BP | GO:009:postsynapt | 6/2103 | 12/18800 | 0.00099 | 0.040133 | 0.03517 | ACTB/A | 6 |
| GO:001050BP | GO:001:negative re | 71/2103 | 441/18800 | 0.00101 | 0.040133 | 0.03517 | ADAR/A | 71 |
| GO:190290BP | GO:190:positive re | 34/2103 | 176/18800 | 0.00102 | 0.040133 | 0.03517 | AKAP9/ | 34 |
| GO:004230BP | GO:004:negative re | 63/2103 | 382/18800 | 0.00103 | 0.040133 | 0.03517 | ADAR/A | 63 |
| GO:006030BP | GO:006:bone morp | 22/2103 | 98/18800 | 0.00103 | 0.040133 | 0.03517 | ANXA6/ | 22 |
| GO:007220BP | GO:007:metaneph | 9/2103 | 25/18800 | 0.00103 | 0.040133 | 0.03517 | FMN1/F | 9 |
| GO:003430BP | GO:003:cell junctio | 12/2103 | 40/18800 | 0.00103 | 0.040133 | 0.03517 | BSN/C1 | 12 |
| GO:007221BP | GO:007:metaneph | 12/2103 | 40/18800 | 0.00103 | 0.040133 | 0.03517 | FMN1/F | 12 |
| GO:005120BP | GO:005:maintenan | 56/2103 | 331/18800 | 0.00104 | 0.040133 | 0.03517 | ABCA1/ | 56 |
| GO:001650BP | GO:001:histone mc | 78/2103 | 494/18800 | 0.00105 | 0.040133 | 0.03517 | ACTB/A | 78 |
| GO:004610BP | GO:004:alcohol bic | 29/2103 | 143/18800 | 0.00105 | 0.040133 | 0.03517 | ABCG1/ | 29 |
| GO:005140BP | GO:005:regulation | 21/2103 | 92/18800 | 0.00106 | 0.040133 | 0.03517 | ACTG1/ | 21 |
| GO:003220BP | GO:003:negative re | 11/2103 | 35/18800 | 0.00108 | 0.04083 | 0.03578 | ATM/DC | 11 |
| GO:000190BP | GO:000:lymph vess | 10/2103 | 30/18800 | 0.00109 | 0.040856 | 0.03581 | ACVRL1 | 10 |
| GO:001630BP | GO:001:morphoge | 30/2103 | 150/18800 | 0.0011 | 0.041056 | 0.03598 | ALDH1A | 30 |
| GO:006030BP | GO:006:endochonc | 15/2103 | 57/18800 | 0.00117 | 0.04329 | 0.03794 | ANXA6/ | 15 |
| GO:004510BP | GO:004:maintenan | 21/2103 | 93/18800 | 0.00123 | 0.045038 | 0.03947 | ARL2BP | 21 |
| GO:002190BP | GO:002:cerebral cc | 24/2103 | 112/18800 | 0.00125 | 0.045356 | 0.03975 | ADGRG: | 24 |
| GO:003440BP | GO:003:lipid oxidat | 24/2103 | 112/18800 | 0.00125 | 0.045356 | 0.03975 | ABCD2/ | 24 |
| GO:000980BP | GO:000:determinat | 28/2103 | 138/18800 | 0.00126 | 0.045576 | 0.03994 | ACVR2A | 28 |
| GO:000710BP | GO:000:negative re | 52/2103 | 305/18800 | 0.00129 | 0.045576 | 0.03994 | ACTN4/ | 52 |
| GO:002241BP | GO:002:cellular cor | 73/2103 | 460/18800 | 0.0013 | 0.045576 | 0.03994 | ACVR1C | 73 |
| GO:000170BP | GO:000:morphoge | 37/2103 | 199/18800 | 0.00131 | 0.045576 | 0.03994 | AGT/BTI | 37 |
| GO:000640BP | GO:000:protein me | 37/2103 | 199/18800 | 0.00131 | 0.045576 | 0.03994 | ARID4B/ | 37 |
| GO:000821BP | GO:000:protein alk | 37/2103 | 199/18800 | 0.00131 | 0.045576 | 0.03994 | ARID4B/ | 37 |
| GO:003220BP | GO:003:regulation | 23/2103 | 106/18800 | 0.00131 | 0.045576 | 0.03994 | ACTG1/ | 23 |
| GO:000640BP | GO:000:negative re | 39/2103 | 213/18800 | 0.00132 | 0.0458 | 0.04014 | ADAR/A | 39 |
| GO:000910BP | GO:000:glycoprote | 63/2103 | 386/18800 | 0.00134 | 0.04616 | 0.04046 | ABCA7/ | 63 |
| GO:006007BP | GO:006:canonical | 53/2103 | 313/18800 | 0.00137 | 0.046805 | 0.04102 | CAPRIN | 53 |

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|-------------|-------------------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:005196BP | GO:005:positive regulation of | 47/2103 | 270/18800 | 0.00139 | 0.047124 | 0.0413 | ACTR2/ | 47 |
| GO:001083BP | GO:001:regulation of | 11/2103 | 36/18800 | 0.00141 | 0.047124 | 0.0413 | CD109/ | 11 |
| GO:007190BP | GO:007:regulation of | 61/2103 | 372/18800 | 0.00141 | 0.047124 | 0.0413 | ACTB/A | 61 |
| GO:000975BP | GO:000:specific cellular | 28/2103 | 139/18800 | 0.00142 | 0.047124 | 0.0413 | ACVR2A | 28 |
| GO:005105BP | GO:005:regulation of | 51/2103 | 299/18800 | 0.00142 | 0.047124 | 0.0413 | ABCA1/ | 51 |
| GO:004647BP | GO:004:glycerophospholipid | 39/2103 | 214/18800 | 0.00145 | 0.047466 | 0.0416 | ABHD4/ | 39 |
| GO:004870BP | GO:004:skeletal system | 41/2103 | 228/18800 | 0.00145 | 0.047466 | 0.0416 | ANXA6/ | 41 |
| GO:009016BP | GO:009:establishment of | 10/2103 | 31/18800 | 0.00145 | 0.047466 | 0.0416 | CYTH3/ | 10 |
| GO:000195BP | GO:000:regulation of | 32/2103 | 166/18800 | 0.00146 | 0.047476 | 0.04161 | ADAM1 | 32 |
| GO:006133BP | GO:006:renal tubule | 18/2103 | 76/18800 | 0.0015 | 0.048553 | 0.04255 | AGT/CC | 18 |
| GO:000657BP | GO:000:amino-acid | 7/2103 | 17/18800 | 0.00153 | 0.048553 | 0.04255 | ACADM | 7 |
| GO:004683BP | GO:004:phosphorylation | 7/2103 | 17/18800 | 0.00153 | 0.048553 | 0.04255 | BPNT2/ | 7 |
| GO:004685BP | GO:004:inositol phosphate | 7/2103 | 17/18800 | 0.00153 | 0.048553 | 0.04255 | BPNT2/ | 7 |
| GO:004657BP | GO:004:regulation of | 35/2103 | 187/18800 | 0.00154 | 0.04881 | 0.04278 | ABCA1/ | 35 |
| GO:011002BP | GO:011:regulation of | 22/2103 | 101/18800 | 0.00157 | 0.049197 | 0.04312 | ACTG1/ | 22 |
| GO:000600BP | GO:000:glucose metabolism | 37/2103 | 201/18800 | 0.00157 | 0.049197 | 0.04312 | ACADM | 37 |
| GO:001403BP | GO:001:neural crest | 21/2103 | 95/18800 | 0.00163 | 0.050426 | 0.04419 | ANXA6/ | 21 |
| GO:005080BP | GO:005:synapse organization | 67/2103 | 419/18800 | 0.00165 | 0.050426 | 0.04419 | ACTB/A | 67 |
| GO:001063BP | GO:001:positive regulation | 33/2103 | 174/18800 | 0.00165 | 0.050426 | 0.04419 | ADAM1 | 33 |
| GO:000943BP | GO:000:carnitine metabolism | 6/2103 | 13/18800 | 0.00166 | 0.050426 | 0.04419 | ACADM | 6 |
| GO:002181BP | GO:002:layer formation | 6/2103 | 13/18800 | 0.00166 | 0.050426 | 0.04419 | ADGRG1 | 6 |
| GO:003572BP | GO:003:intracellular | 6/2103 | 13/18800 | 0.00166 | 0.050426 | 0.04419 | CILK1/D | 6 |
| GO:000165BP | GO:000:metanephros | 20/2103 | 89/18800 | 0.00169 | 0.050917 | 0.04463 | CALB1/F | 20 |
| GO:000705BP | GO:000:spindle organization | 35/2103 | 188/18800 | 0.0017 | 0.050921 | 0.04463 | CENPH/ | 35 |
| GO:005077BP | GO:005:regulation of | 30/2103 | 154/18800 | 0.0017 | 0.050921 | 0.04463 | BMPR2/ | 30 |
| GO:004804BP | GO:004:focal adhesion | 19/2103 | 83/18800 | 0.00173 | 0.051497 | 0.04513 | ACTG1/ | 19 |
| GO:003432BP | GO:003:cell junction | 67/2103 | 420/18800 | 0.00175 | 0.051824 | 0.04542 | ACTB/A | 67 |
| GO:005067BP | GO:005:epithelial cell | 70/2103 | 443/18800 | 0.0018 | 0.05305 | 0.04649 | ACVR2A | 70 |
| GO:005140BP | GO:005:stress-activated | 43/2103 | 245/18800 | 0.00184 | 0.053769 | 0.04712 | AGT/CC | 43 |
| GO:003585BP | GO:003:epithelial cell | 13/2103 | 48/18800 | 0.00184 | 0.053769 | 0.04712 | EXT1/FC | 13 |
| GO:000300BP | GO:000:regionalization | 58/2103 | 354/18800 | 0.00186 | 0.053931 | 0.04727 | ACVR2A | 58 |
| GO:000703BP | GO:000:vacuolar transport | 30/2103 | 155/18800 | 0.00189 | 0.05461 | 0.04786 | ANKFY1 | 30 |
| GO:190305BP | GO:190:positive regulation | 9/2103 | 27/18800 | 0.00193 | 0.055403 | 0.04856 | AGT/EF | 9 |
| GO:006105BP | GO:006:regulation of | 20/2103 | 90/18800 | 0.00194 | 0.05546 | 0.04861 | ADAM1 | 20 |
| GO:006144BP | GO:006:connective tissue | 45/2103 | 260/18800 | 0.00195 | 0.05546 | 0.04861 | ACVRL1 | 45 |
| GO:003105BP | GO:003:regulation of | 33/2103 | 176/18800 | 0.002 | 0.056324 | 0.04936 | ATM/BC | 33 |
| GO:002240BP | GO:002:membrane | 19/2103 | 84/18800 | 0.00201 | 0.056324 | 0.04936 | AHCYL1 | 19 |
| GO:003505BP | GO:003:embryonic | 19/2103 | 84/18800 | 0.00201 | 0.056324 | 0.04936 | BBS7/EC | 19 |
| GO:004340BP | GO:004:regulation of | 34/2103 | 183/18800 | 0.00203 | 0.056603 | 0.04961 | ADAM8 | 34 |
| GO:003556BP | GO:003:non-cancer | 17/2103 | 72/18800 | 0.00208 | 0.05787 | 0.05072 | CELSR1/ | 17 |
| GO:001802BP | GO:001:peptidyl-lysine | 28/2103 | 143/18800 | 0.0022 | 0.060956 | 0.05342 | ARID4B/ | 28 |
| GO:000195BP | GO:000:positive regulation | 14/2103 | 55/18800 | 0.00238 | 0.064873 | 0.05686 | CIB1/CX | 14 |
| GO:006105BP | GO:006:positive regulation | 14/2103 | 55/18800 | 0.00238 | 0.064873 | 0.05686 | ADAM1 | 14 |
| GO:000735BP | GO:000:pattern specification | 72/2103 | 463/18800 | 0.00238 | 0.064873 | 0.05686 | ACVR2A | 72 |
| GO:004884BP | GO:004:artery morphogenesis | 18/2103 | 79/18800 | 0.00239 | 0.064873 | 0.05686 | ACVRL1 | 18 |
| GO:006075BP | GO:006:regulation of | 33/2103 | 178/18800 | 0.00242 | 0.065055 | 0.05702 | ADAM1 | 33 |
| GO:003476BP | GO:003:positive regulation | 38/2103 | 213/18800 | 0.00244 | 0.065055 | 0.05702 | ACTN4/ | 38 |
| GO:000705BP | GO:000:mitotic spindle | 25/2103 | 124/18800 | 0.00245 | 0.065055 | 0.05702 | CENPH/ | 25 |
| GO:003105BP | GO:003:actomyosin | 36/2103 | 199/18800 | 0.00245 | 0.065055 | 0.05702 | ACTG1/ | 36 |
| GO:003365BP | GO:003:cellular polarity | 16/2103 | 67/18800 | 0.00246 | 0.065055 | 0.05702 | ACADM | 16 |
| GO:002175BP | GO:002:cerebral cortex | 10/2103 | 33/18800 | 0.00246 | 0.065055 | 0.05702 | ADGRG1 | 10 |
| GO:003461BP | GO:003:response to | 43/2103 | 249/18800 | 0.00253 | 0.066279 | 0.05809 | ACTN4/ | 43 |
| GO:002175BP | GO:002:cerebral cortex | 12/2103 | 44/18800 | 0.00256 | 0.066279 | 0.05809 | ADGRG1 | 12 |
| GO:000195BP | GO:000:endochondrium | 9/2103 | 28/18800 | 0.00256 | 0.066279 | 0.05809 | BPNT2/ | 9 |
| GO:003607BP | GO:003:replacement | 9/2103 | 28/18800 | 0.00256 | 0.066279 | 0.05809 | BPNT2/ | 9 |
| GO:190331BP | GO:190:positive regulation | 9/2103 | 28/18800 | 0.00256 | 0.066279 | 0.05809 | ADAM8 | 9 |
| GO:005122BP | GO:005:regulation of | 76/2103 | 495/18800 | 0.00259 | 0.066754 | 0.0585 | AACS/A | 76 |
| GO:001083BP | GO:001:positive regulation | 6/2103 | 14/18800 | 0.00263 | 0.067203 | 0.0589 | CDH3/F | 6 |
| GO:003105BP | GO:003:pre-miRNA | 6/2103 | 14/18800 | 0.00263 | 0.067203 | 0.0589 | ADAR/A | 6 |

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|-------------|----------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:000726BP | GO:000Rho protei | 27/2103 | 138/18800 | 0.00264 | 0.067203 | 0.0589 | ABCA1/ | 27 |
| GO:005067BP | GO:005regulation | 61/2103 | 382/18800 | 0.00267 | 0.067611 | 0.05926 | ACVRL1 | 61 |
| GO:006162BP | GO:006.pharyngea | 5/2103 | 10/18800 | 0.00271 | 0.068214 | 0.05978 | BMPR2/ | 5 |
| GO:003102BP | GO:003.microtubul | 28/2103 | 145/18800 | 0.00272 | 0.068242 | 0.05981 | BCAS3/I | 28 |
| GO:001605BP | GO:001.carbohydr | 29/2103 | 152/18800 | 0.00278 | 0.069213 | 0.06066 | ALDOA/ | 29 |
| GO:007053BP | GO:007regulation | 29/2103 | 152/18800 | 0.00278 | 0.069213 | 0.06066 | AKAP9/I | 29 |
| GO:004354BP | GO:004.positive re | 46/2103 | 272/18800 | 0.00279 | 0.069286 | 0.06072 | ABR/AG | 46 |
| GO:007205BP | GO:007.nephron e | 17/2103 | 74/18800 | 0.00284 | 0.070095 | 0.06143 | AGT/FM | 17 |
| GO:190227BP | GO:190:regulation | 11/2103 | 39/18800 | 0.00286 | 0.070337 | 0.06164 | KDM1A/ | 11 |
| GO:004685BP | GO:004.phosphatic | 16/2103 | 68/18800 | 0.00288 | 0.070337 | 0.06164 | ATG14/ | 16 |
| GO:190331BP | GO:190:regulation | 16/2103 | 68/18800 | 0.00288 | 0.070337 | 0.06164 | ADAM8/ | 16 |
| GO:001935BP | GO:001.fatty acid | 22/2103 | 106/18800 | 0.00298 | 0.07197 | 0.06308 | ABCD2/ | 22 |
| GO:003241BP | GO:003.positive re | 22/2103 | 106/18800 | 0.00298 | 0.07197 | 0.06308 | ACTN4/ | 22 |
| GO:000633BP | GO:000.double-str | 46/2103 | 273/18800 | 0.00301 | 0.072316 | 0.06338 | ACTB/A | 46 |
| GO:001905BP | GO:001.viral life cy | 52/2103 | 317/18800 | 0.00301 | 0.072316 | 0.06338 | ADAR/A | 52 |
| GO:003285BP | GO:003:regulation | 12/2103 | 45/18800 | 0.00314 | 0.075014 | 0.06574 | AP2A1/I | 12 |
| GO:000323BP | GO:000:cardiac ch | 31/2103 | 167/18800 | 0.00315 | 0.07504 | 0.06577 | ADAMT | 31 |
| GO:003105BP | GO:003.stress-acti | 43/2103 | 252/18800 | 0.00318 | 0.075266 | 0.06597 | AGT/CC | 43 |
| GO:004505BP | GO:004:regulation | 7/2103 | 19/18800 | 0.00323 | 0.076033 | 0.06664 | APOBEC | 7 |
| GO:006103BP | GO:006.positive re | 7/2103 | 19/18800 | 0.00323 | 0.076033 | 0.06664 | ACTR2/ | 7 |
| GO:000722BP | GO:000.smooth m | 27/2103 | 140/18800 | 0.00326 | 0.076395 | 0.06695 | BBS7/CI | 27 |
| GO:005145BP | GO:005.positive re | 9/2103 | 29/18800 | 0.00335 | 0.078198 | 0.06853 | AGRN/E | 9 |
| GO:005125BP | GO:005.protein ho | 14/2103 | 57/18800 | 0.00339 | 0.078263 | 0.06859 | ACACA/ | 14 |
| GO:001063BP | GO:001.negative re | 57/2103 | 356/18800 | 0.0034 | 0.078263 | 0.06859 | ADCK1/ | 57 |
| GO:000675BP | GO:000:water-solu | 15/2103 | 63/18800 | 0.00341 | 0.078263 | 0.06859 | ALDH1L | 15 |
| GO:006055BP | GO:006.neuroepith | 8/2103 | 24/18800 | 0.00342 | 0.078263 | 0.06859 | CDH2/F | 8 |
| GO:006115BP | GO:006.establishm | 8/2103 | 24/18800 | 0.00342 | 0.078263 | 0.06859 | FAT1/FS | 8 |
| GO:000195BP | GO:000.negative re | 11/2103 | 40/18800 | 0.00355 | 0.08042 | 0.07048 | ACVRL1 | 11 |
| GO:000673BP | GO:000:one-carbo | 11/2103 | 40/18800 | 0.00355 | 0.08042 | 0.07048 | AHCY/A | 11 |
| GO:003085BP | GO:003:cortical act | 11/2103 | 40/18800 | 0.00355 | 0.08042 | 0.07048 | AKAP11 | 11 |
| GO:000173BP | GO:000.in utero en | 61/2103 | 387/18800 | 0.00361 | 0.081254 | 0.07121 | ACVR1C | 61 |
| GO:000855BP | GO:000:regulation | 18/2103 | 82/18800 | 0.00367 | 0.082402 | 0.07222 | CDK20/ | 18 |
| GO:000303BP | GO:000:heart morp | 43/2103 | 254/18800 | 0.00368 | 0.082402 | 0.07222 | ACVRL1 | 43 |
| GO:000663BP | GO:000:fatty acid | 30/2103 | 162/18800 | 0.00377 | 0.083313 | 0.07302 | ABCD2/ | 30 |
| GO:000597BP | GO:000:polysaccha | 22/2103 | 108/18800 | 0.00378 | 0.083313 | 0.07302 | ACADM | 22 |
| GO:007215BP | GO:007.mesoneph | 20/2103 | 95/18800 | 0.00379 | 0.083313 | 0.07302 | AGT/CA | 20 |
| GO:007215BP | GO:007.mesoneph | 20/2103 | 95/18800 | 0.00379 | 0.083313 | 0.07302 | AGT/CA | 20 |
| GO:190293BP | GO:190:negative re | 31/2103 | 169/18800 | 0.0038 | 0.083313 | 0.07302 | ADD1/A | 31 |
| GO:000613BP | GO:000:regulation | 33/2103 | 183/18800 | 0.00381 | 0.083313 | 0.07302 | ACADM | 33 |
| GO:000314BP | GO:000:embryonic | 16/2103 | 70/18800 | 0.00393 | 0.084454 | 0.07402 | BBS7/HI | 16 |
| GO:005077BP | GO:005:positive re | 10/2103 | 35/18800 | 0.00396 | 0.084454 | 0.07402 | ACTR2/ | 10 |
| GO:000197BP | GO:000:renal syste | 6/2103 | 15/18800 | 0.00398 | 0.084454 | 0.07402 | CORO2I | 6 |
| GO:001951BP | GO:001:peptidyl-p | 6/2103 | 15/18800 | 0.00398 | 0.084454 | 0.07402 | EGLN1/I | 6 |
| GO:003355BP | GO:003:regulation | 6/2103 | 15/18800 | 0.00398 | 0.084454 | 0.07402 | DEAF1/C | 6 |
| GO:004572BP | GO:004:positive re | 6/2103 | 15/18800 | 0.00398 | 0.084454 | 0.07402 | EPM2AI | 6 |
| GO:007083BP | GO:007:basement m | 6/2103 | 15/18800 | 0.00398 | 0.084454 | 0.07402 | LAMB1/ | 6 |
| GO:005165BP | GO:005.maintenan | 38/2103 | 219/18800 | 0.00399 | 0.084454 | 0.07402 | AKAP9/ | 38 |
| GO:000185BP | GO:000:endothelia | 15/2103 | 64/18800 | 0.004 | 0.084454 | 0.07402 | ADD1/C | 15 |
| GO:004881BP | GO:004:regulation | 15/2103 | 64/18800 | 0.004 | 0.084454 | 0.07402 | ACTR2/ | 15 |
| GO:007217BP | GO:007:epithelial t | 26/2103 | 136/18800 | 0.00434 | 0.091183 | 0.07992 | APAF1/I | 26 |
| GO:005077BP | GO:005:positive re | 17/2103 | 77/18800 | 0.00439 | 0.091256 | 0.07998 | BMPR2/ | 17 |
| GO:007202BP | GO:007:nephron r | 17/2103 | 77/18800 | 0.00439 | 0.091256 | 0.07998 | AGT/FM | 17 |
| GO:001605BP | GO:001:organic aci | 41/2103 | 242/18800 | 0.00443 | 0.091256 | 0.07998 | ABCD2/ | 41 |
| GO:000823BP | GO:000:steroid me | 52/2103 | 323/18800 | 0.00445 | 0.091256 | 0.07998 | ABCA1/ | 52 |
| GO:007095BP | GO:007:neuron de | 56/2103 | 353/18800 | 0.00447 | 0.091256 | 0.07998 | ADAM8/ | 56 |
| GO:000685BP | GO:000:Golgi to va | 7/2103 | 20/18800 | 0.0045 | 0.091256 | 0.07998 | ANKFY1 | 7 |
| GO:003965BP | GO:003:single strar | 7/2103 | 20/18800 | 0.0045 | 0.091256 | 0.07998 | APOBEC | 7 |
| GO:003353BP | GO:003:fatty acid | 5/2103 | 11/18800 | 0.00451 | 0.091256 | 0.07998 | ACAD11 | 5 |
| GO:000175BP | GO:000:neuron mic | 30/2103 | 164/18800 | 0.00454 | 0.091256 | 0.07998 | ADGRG | 30 |

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|-------------|---------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:000307BP | GO:000:renal syste | 8/2103 | 25/18800 | 0.00454 | 0.091256 | 0.07998 | AGT/CC | 8 |
| GO:003163BP | GO:003:plasminog | 8/2103 | 25/18800 | 0.00454 | 0.091256 | 0.07998 | CTSZ/DI | 8 |
| GO:006133BP | GO:006:establishm | 8/2103 | 25/18800 | 0.00454 | 0.091256 | 0.07998 | FAT1/FS | 8 |
| GO:005103BP | GO:005:regulation | 69/2103 | 452/18800 | 0.00455 | 0.091256 | 0.07998 | ADAM8 | 69 |
| GO:005153BP | GO:005:histone H3 | 16/2103 | 71/18800 | 0.00456 | 0.091256 | 0.07998 | BCOR/B | 16 |
| GO:005073BP | GO:005:regulation | 57/2103 | 361/18800 | 0.0046 | 0.09189 | 0.08053 | ACTR2/I | 57 |
| GO:000317BP | GO:000:heart valve | 15/2103 | 65/18800 | 0.00468 | 0.092488 | 0.08106 | ADAMT | 15 |
| GO:004393BP | GO:004:cellular cor | 15/2103 | 65/18800 | 0.00468 | 0.092488 | 0.08106 | BSN/C1 | 15 |
| GO:004341BP | GO:004:positive re | 74/2103 | 491/18800 | 0.00468 | 0.092488 | 0.08106 | ABCA7/ | 74 |
| GO:005103BP | GO:005:positive re | 44/2103 | 265/18800 | 0.0048 | 0.094636 | 0.08294 | ADAM8 | 44 |
| GO:003367BP | GO:003:negative re | 40/2103 | 236/18800 | 0.00486 | 0.095455 | 0.08366 | ADAR/A | 40 |
| GO:007153BP | GO:007:response t | 43/2103 | 258/18800 | 0.00491 | 0.095993 | 0.08413 | ACVRL1 | 43 |
| GO:190283BP | GO:190:microtubul | 28/2103 | 151/18800 | 0.00492 | 0.095993 | 0.08413 | CDK5RA | 28 |
| GO:190533BP | GO:190:positive re | 10/2103 | 36/18800 | 0.00495 | 0.095993 | 0.08413 | AGT/GA | 10 |
| GO:000803BP | GO:000:regulation | 29/2103 | 158/18800 | 0.00495 | 0.095993 | 0.08413 | ADD1/A | 29 |
| GO:190161BP | GO:190:organic hy | 17/2103 | 78/18800 | 0.00505 | 0.097322 | 0.0853 | ALDH3E | 17 |
| GO:004873BP | GO:004:gland deve | 66/2103 | 431/18800 | 0.00505 | 0.097322 | 0.0853 | ACADM | 66 |
| GO:000183BP | GO:000:embryonic | 24/2103 | 124/18800 | 0.00509 | 0.097394 | 0.08536 | APAF1/I | 24 |
| GO:007233BP | GO:007:monocarb | 24/2103 | 124/18800 | 0.00509 | 0.097394 | 0.08536 | ABCD2/ | 24 |
| GO:000184BP | GO:000:neural tub | 21/2103 | 104/18800 | 0.00511 | 0.097491 | 0.08544 | APAF1/I | 21 |
| GO:005123BP | GO:005:protein cor | 41/2103 | 244/18800 | 0.00513 | 0.097491 | 0.08544 | ACACA/ | 41 |
| GO:009733BP | GO:009:cellular res | 19/2103 | 91/18800 | 0.00517 | 0.097534 | 0.08548 | ACACA/ | 19 |
| GO:000703BP | GO:000:centrosom | 25/2103 | 131/18800 | 0.00521 | 0.097534 | 0.08548 | BRCA1/ | 25 |
| GO:001053BP | GO:001:positive re | 25/2103 | 131/18800 | 0.00521 | 0.097534 | 0.08548 | ADAM1 | 25 |
| GO:003227BP | GO:003:regulation | 35/2103 | 201/18800 | 0.00525 | 0.097534 | 0.08548 | ADD1/A | 35 |
| GO:190183BP | GO:190:regulation | 35/2103 | 201/18800 | 0.00525 | 0.097534 | 0.08548 | ACTG1/ | 35 |
| GO:000173BP | GO:000:establishm | 16/2103 | 72/18800 | 0.00526 | 0.097534 | 0.08548 | BRSK2/C | 16 |
| GO:000713BP | GO:000:establishm | 16/2103 | 72/18800 | 0.00526 | 0.097534 | 0.08548 | BRSK2/C | 16 |
| GO:007207BP | GO:007:nephron tu | 16/2103 | 72/18800 | 0.00526 | 0.097534 | 0.08548 | AGT/FM | 16 |
| GO:000761BP | GO:000:learning | 27/2103 | 145/18800 | 0.00536 | 0.098682 | 0.08649 | ABCA7/ | 27 |
| GO:007153BP | GO:007:cellular res | 42/2103 | 252/18800 | 0.00539 | 0.098682 | 0.08649 | ACVRL1 | 42 |
| GO:003514BP | GO:003:tube form | 28/2103 | 152/18800 | 0.0054 | 0.098682 | 0.08649 | APAF1/I | 28 |
| GO:007177BP | GO:007:response t | 31/2103 | 173/18800 | 0.00542 | 0.098682 | 0.08649 | ACVR2A | 31 |
| GO:007177BP | GO:007:cellular res | 31/2103 | 173/18800 | 0.00542 | 0.098682 | 0.08649 | ACVR2A | 31 |
| GO:003083BP | GO:003:regulation | 29/2103 | 159/18800 | 0.00543 | 0.098682 | 0.08649 | ADD1/A | 29 |
| GO:000633BP | GO:000:double-str | 15/2103 | 66/18800 | 0.00544 | 0.098682 | 0.08649 | ATM/ER | 15 |
| GO:007183BP | GO:007:protein-lip | 12/2103 | 48/18800 | 0.00555 | 0.100307 | 0.08791 | ABCA1/ | 12 |
| GO:001603BP | GO:001:carbohydr | 36/2103 | 209/18800 | 0.00561 | 0.101099 | 0.08861 | ACADM | 36 |
| GO:004633BP | GO:004:carboxylic | 40/2103 | 238/18800 | 0.00563 | 0.101163 | 0.08866 | ABCD2/ | 40 |
| GO:190211BP | GO:190:regulation | 35/2103 | 202/18800 | 0.00569 | 0.101903 | 0.08931 | BRCA1/ | 35 |
| GO:005143BP | GO:005:positive re | 34/2103 | 195/18800 | 0.00576 | 0.10213 | 0.08951 | AKAP9/ | 34 |
| GO:000072BP | GO:000:telomere n | 25/2103 | 132/18800 | 0.00576 | 0.10213 | 0.08951 | ATM/AT | 25 |
| GO:007087BP | GO:007:positive re | 6/2103 | 16/18800 | 0.00577 | 0.10213 | 0.08951 | EPM2AI | 6 |
| GO:007153BP | GO:007:cellular res | 6/2103 | 16/18800 | 0.00577 | 0.10213 | 0.08951 | ERLIN2/ | 6 |
| GO:003083BP | GO:003:regulation | 26/2103 | 139/18800 | 0.00584 | 0.102895 | 0.09018 | ADD1/A | 26 |
| GO:000993BP | GO:000:dorsal/ven | 19/2103 | 92/18800 | 0.00585 | 0.102895 | 0.09018 | ACVRL1 | 19 |
| GO:004873BP | GO:004:branching | 28/2103 | 153/18800 | 0.00593 | 0.103451 | 0.09067 | AGT/CE | 28 |
| GO:000303BP | GO:000:glomerular | 8/2103 | 26/18800 | 0.00593 | 0.103451 | 0.09067 | CORO2I | 8 |
| GO:001093BP | GO:001:positive re | 8/2103 | 26/18800 | 0.00593 | 0.103451 | 0.09067 | ADAM8 | 8 |
| GO:001063BP | GO:001:epithelial c | 56/2103 | 358/18800 | 0.00601 | 0.104219 | 0.09134 | ACVRL1 | 56 |
| GO:004001BP | GO:004:negative re | 61/2103 | 396/18800 | 0.00601 | 0.104219 | 0.09134 | ABHD2/ | 61 |
| GO:003353BP | GO:003:multicellul | 16/2103 | 73/18800 | 0.00606 | 0.104219 | 0.09134 | ADRA2/ | 16 |
| GO:003603BP | GO:003:phosphatic | 7/2103 | 21/18800 | 0.00611 | 0.104219 | 0.09134 | ATG14/ | 7 |
| GO:007163BP | GO:007:monocyte | 7/2103 | 21/18800 | 0.00611 | 0.104219 | 0.09134 | APOD/E | 7 |
| GO:007163BP | GO:007:regulation | 7/2103 | 21/18800 | 0.00611 | 0.104219 | 0.09134 | APOD/E | 7 |
| GO:000673BP | GO:000:NADP met | 10/2103 | 37/18800 | 0.00611 | 0.104219 | 0.09134 | ALDH1L | 10 |
| GO:009013BP | GO:009:regulation | 10/2103 | 37/18800 | 0.00611 | 0.104219 | 0.09134 | ABCG1/ | 10 |
| GO:000183BP | GO:000:mesoneph | 20/2103 | 99/18800 | 0.00616 | 0.10467 | 0.09174 | AGT/CA | 20 |
| GO:005087BP | GO:005:regulation | 59/2103 | 382/18800 | 0.00644 | 0.109117 | 0.09563 | ACTB/A | 59 |

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|------------|----------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:19044BP | GO:190:positive re | 11/2103 | 43/18800 | 0.00647 | 0.109294 | 0.09579 | AGT/DE | 11 |
| GO:00218BP | GO:002:forebrain c | 14/2103 | 61/18800 | 0.00649 | 0.109452 | 0.09593 | ADGRG | 14 |
| GO:00436BP | GO:004:inositol ph | 13/2103 | 55/18800 | 0.00661 | 0.111078 | 0.09735 | BPNT2/ | 13 |
| GO:00066BP | GO:000:phosphatic | 25/2103 | 134/18800 | 0.00701 | 0.116728 | 0.1023 | ATG14/ | 25 |
| GO:00608BP | GO:006:smoothen | 5/2103 | 12/18800 | 0.00702 | 0.116728 | 0.1023 | CDK20/ | 5 |
| GO:00704BP | GO:007:thrombin- | 5/2103 | 12/18800 | 0.00702 | 0.116728 | 0.1023 | F2R/F2R | 5 |
| GO:00164BP | GO:001:cytosolic tr | 30/2103 | 169/18800 | 0.00704 | 0.116728 | 0.1023 | ACTR2/ | 30 |
| GO:00215BP | GO:002:pallium de | 30/2103 | 169/18800 | 0.00704 | 0.116728 | 0.1023 | ADGRG | 30 |
| GO:19040BP | GO:190:positive re | 27/2103 | 148/18800 | 0.00709 | 0.117237 | 0.10275 | ACTN4/ | 27 |
| GO:00901BP | GO:009:epithelium | 56/2103 | 361/18800 | 0.00713 | 0.117473 | 0.10296 | ACVRL1 | 56 |
| GO:00072BP | GO:000:integrin-m | 21/2103 | 107/18800 | 0.00716 | 0.117722 | 0.10317 | ADAM1 | 21 |
| GO:00613BP | GO:006:determinat | 15/2103 | 68/18800 | 0.00727 | 0.118698 | 0.10403 | BBS7/D | 15 |
| GO:01501BP | GO:015:regulation | 15/2103 | 68/18800 | 0.00727 | 0.118698 | 0.10403 | ACTG1/ | 15 |
| GO:00091BP | GO:000:glycoprote | 50/2103 | 316/18800 | 0.00728 | 0.118698 | 0.10403 | ABCA7/ | 50 |
| GO:00906BP | GO:009:activation | 22/2103 | 114/18800 | 0.00736 | 0.119729 | 0.10493 | ABR/AR | 22 |
| GO:00076BP | GO:000:learning or | 43/2103 | 264/18800 | 0.0074 | 0.119968 | 0.10514 | ABCA7/ | 43 |
| GO:00016BP | GO:000:ureteric bu | 19/2103 | 94/18800 | 0.00742 | 0.119968 | 0.10514 | AGT/CA | 19 |
| GO:00019BP | GO:000:regulation | 10/2103 | 38/18800 | 0.00748 | 0.120021 | 0.10519 | AGT/CT | 10 |
| GO:00183BP | GO:001:peptidyl-ly | 32/2103 | 184/18800 | 0.0075 | 0.120021 | 0.10519 | ACTB/BI | 32 |
| GO:00070BP | GO:000:lysosomal | 23/2103 | 121/18800 | 0.00752 | 0.120021 | 0.10519 | ANKFY1 | 23 |
| GO:00486BP | GO:004:axon exten | 23/2103 | 121/18800 | 0.00752 | 0.120021 | 0.10519 | ALCAM/ | 23 |
| GO:00027BP | GO:000:regulation | 14/2103 | 62/18800 | 0.00754 | 0.120021 | 0.10519 | C3/CD4 | 14 |
| GO:00028BP | GO:000:regulation | 14/2103 | 62/18800 | 0.00754 | 0.120021 | 0.10519 | C3/CD4 | 14 |
| GO:00972BP | GO:009:renal filtrat | 8/2103 | 27/18800 | 0.00761 | 0.120804 | 0.10588 | CORO2I | 8 |
| GO:00308BP | GO:003:mammary | 25/2103 | 135/18800 | 0.00771 | 0.12178 | 0.10673 | CAPN1/ | 25 |
| GO:00347BP | GO:003:positive re | 29/2103 | 163/18800 | 0.00772 | 0.12178 | 0.10673 | ACTN4/ | 29 |
| GO:00065BP | GO:000:membrane | 11/2103 | 44/18800 | 0.00777 | 0.121958 | 0.10689 | ADAM1 | 11 |
| GO:00604BP | GO:006:mammary | 11/2103 | 44/18800 | 0.00777 | 0.121958 | 0.10689 | CAPN1/ | 11 |
| GO:00604BP | GO:006:lung morpl | 12/2103 | 50/18800 | 0.00784 | 0.122372 | 0.10725 | CELSR1/ | 12 |
| GO:00616BP | GO:006:histone H3 | 12/2103 | 50/18800 | 0.00784 | 0.122372 | 0.10725 | ARID4B/ | 12 |
| GO:00488BP | GO:004:stem cell d | 18/2103 | 88/18800 | 0.00795 | 0.123496 | 0.10824 | ANXA6/ | 18 |
| GO:19018BP | GO:190:regulation | 18/2103 | 88/18800 | 0.00795 | 0.123496 | 0.10824 | ADD1/A | 18 |
| GO:00164BP | GO:001:protein prc | 40/2103 | 243/18800 | 0.008 | 0.123997 | 0.10867 | ADAM1 | 40 |
| GO:00518BP | GO:005:negative re | 6/2103 | 17/18800 | 0.00808 | 0.124563 | 0.10917 | ACVRL1 | 6 |
| GO:01501BP | GO:015:negative re | 6/2103 | 17/18800 | 0.00808 | 0.124563 | 0.10917 | ACVRL1 | 6 |
| GO:00350BP | GO:003:establishm | 7/2103 | 22/18800 | 0.00811 | 0.124612 | 0.10921 | FAT1/FS | 7 |
| GO:00615BP | GO:006:axon devel | 71/2103 | 479/18800 | 0.00813 | 0.124637 | 0.10924 | ACTB/A | 71 |
| GO:00106BP | GO:001:positive re | 72/2103 | 487/18800 | 0.00821 | 0.125566 | 0.11005 | ADCK1/ | 72 |
| GO:00106BP | GO:001:regulation | 27/2103 | 150/18800 | 0.00849 | 0.129334 | 0.11335 | ACADM | 27 |
| GO:00160BP | GO:001:virial proce | 63/2103 | 418/18800 | 0.00854 | 0.129334 | 0.11335 | ADAR/A | 63 |
| GO:00455BP | GO:004:regulation | 9/2103 | 33/18800 | 0.00856 | 0.129334 | 0.11335 | CD46/C | 9 |
| GO:00988BP | GO:009:regulation | 9/2103 | 33/18800 | 0.00856 | 0.129334 | 0.11335 | AGT/CC | 9 |
| GO:00485BP | GO:004:embryonic | 67/2103 | 449/18800 | 0.00856 | 0.129334 | 0.11335 | ALDH1A | 67 |
| GO:00432BP | GO:004:regulation | 20/2103 | 102/18800 | 0.00863 | 0.130007 | 0.11394 | ACADM | 20 |
| GO:00518BP | GO:005:regulation | 14/2103 | 63/18800 | 0.00873 | 0.130115 | 0.11404 | ACTG1/ | 14 |
| GO:00606BP | GO:006:ureteric bu | 14/2103 | 63/18800 | 0.00873 | 0.130115 | 0.11404 | AGT/FM | 14 |
| GO:00901BP | GO:009:regulation | 14/2103 | 63/18800 | 0.00873 | 0.130115 | 0.11404 | ACTG1/ | 14 |
| GO:19055BP | GO:190:non-motile | 14/2103 | 63/18800 | 0.00873 | 0.130115 | 0.11404 | BBS1/BE | 14 |
| GO:00620BP | GO:006:regulation | 53/2103 | 342/18800 | 0.00883 | 0.131345 | 0.11511 | ABCD2/ | 53 |
| GO:00083BP | GO:000:regulation | 31/2103 | 179/18800 | 0.00892 | 0.132332 | 0.11598 | AKT3/BI | 31 |
| GO:00064BP | GO:000:protein O- | 18/2103 | 89/18800 | 0.00895 | 0.132466 | 0.1161 | B3GNT7 | 18 |
| GO:00720BP | GO:007:stem cell p | 16/2103 | 76/18800 | 0.00903 | 0.132661 | 0.11627 | AGO3/C | 16 |
| GO:00450BP | GO:004:negative re | 13/2103 | 57/18800 | 0.00903 | 0.132661 | 0.11627 | APOBEC | 13 |
| GO:00197BP | GO:001:polyol met | 22/2103 | 116/18800 | 0.00905 | 0.132661 | 0.11627 | BPNT2/ | 22 |
| GO:00181BP | GO:001:peptidyl-ty | 57/2103 | 373/18800 | 0.00906 | 0.132661 | 0.11627 | ADAM1 | 57 |
| GO:00515BP | GO:005:histone H3 | 10/2103 | 39/18800 | 0.00907 | 0.132661 | 0.11627 | ARID4B/ | 10 |
| GO:00109BP | GO:001:regulation | 23/2103 | 123/18800 | 0.00917 | 0.133739 | 0.11721 | ACADM | 23 |
| GO:00083BP | GO:000:glial cell m | 12/2103 | 51/18800 | 0.00923 | 0.133924 | 0.11737 | ADGRG | 12 |
| GO:00514BP | GO:005:positive re | 12/2103 | 51/18800 | 0.00923 | 0.133924 | 0.11737 | APOA1/ | 12 |

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|-------------|---------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:007182BP | GO:007:plasma lip | 11/2103 | 45/18800 | 0.00927 | 0.134144 | 0.11757 | ABCA1/ | 11 |
| GO:001402BP | GO:001:primary ne | 19/2103 | 96/18800 | 0.00932 | 0.134623 | 0.11799 | APAF1/E | 19 |
| GO:009013BP | GO:009:tissue migr | 56/2103 | 366/18800 | 0.00939 | 0.135237 | 0.11853 | ACVRL1 | 56 |
| GO:004591BP | GO:004:positive re | 15/2103 | 70/18800 | 0.00956 | 0.137331 | 0.12036 | ACTB/A | 15 |
| GO:001403BP | GO:001:neural cres | 17/2103 | 83/18800 | 0.00959 | 0.137525 | 0.12053 | ANXA6/ | 17 |
| GO:004583BP | GO:004:positive re | 8/2103 | 28/18800 | 0.00963 | 0.137799 | 0.12077 | HMCES/ | 8 |
| GO:007165BP | GO:007:protein loc | 55/2103 | 359/18800 | 0.00972 | 0.138745 | 0.1216 | AACS/A | 55 |
| GO:001835BP | GO:001:internal pe | 30/2103 | 173/18800 | 0.00979 | 0.139367 | 0.12214 | ACTB/BI | 30 |
| GO:003241BP | GO:003:positive re | 22/2103 | 117/18800 | 0.01 | 0.140214 | 0.12289 | ACTN4/ | 22 |
| GO:000194BP | GO:000:heart loopi | 14/2103 | 64/18800 | 0.01005 | 0.140214 | 0.12289 | BBS7/M | 14 |
| GO:003253BP | GO:003:maintenan | 14/2103 | 64/18800 | 0.01005 | 0.140214 | 0.12289 | ARL2BP | 14 |
| GO:004595BP | GO:004:regulation | 14/2103 | 64/18800 | 0.01005 | 0.140214 | 0.12289 | B4GALT | 14 |
| GO:007217BP | GO:007:mesoneph | 14/2103 | 64/18800 | 0.01005 | 0.140214 | 0.12289 | AGT/FM | 14 |
| GO:008016BP | GO:008:regulation | 14/2103 | 64/18800 | 0.01005 | 0.140214 | 0.12289 | AGT/CA | 14 |
| GO:000184BP | GO:000:neural tub | 18/2103 | 90/18800 | 0.01005 | 0.140214 | 0.12289 | APAF1/E | 18 |
| GO:003295BP | GO:003:protein-co | 39/2103 | 239/18800 | 0.01006 | 0.140214 | 0.12289 | ADD1/A | 39 |
| GO:005121BP | GO:005:cartilage d | 33/2103 | 195/18800 | 0.01006 | 0.140214 | 0.12289 | ACVRL1 | 33 |
| GO:003134BP | GO:003:negative re | 32/2103 | 188/18800 | 0.01025 | 0.141876 | 0.12434 | ARPIN/E | 32 |
| GO:001655BP | GO:001:protein im | 5/2103 | 13/18800 | 0.01037 | 0.141876 | 0.12434 | PEX10/F | 5 |
| GO:003015BP | GO:003:pancreatic | 5/2103 | 13/18800 | 0.01037 | 0.141876 | 0.12434 | COPA/S | 5 |
| GO:007145BP | GO:007:cellular res | 5/2103 | 13/18800 | 0.01037 | 0.141876 | 0.12434 | ATM/G/ | 5 |
| GO:009875BP | GO:009: xenophagy | 5/2103 | 13/18800 | 0.01037 | 0.141876 | 0.12434 | LRSAM1 | 5 |
| GO:004426BP | GO:004:cellular pol | 19/2103 | 97/18800 | 0.01041 | 0.141876 | 0.12434 | ACADM | 19 |
| GO:000717BP | GO:000:transmem | 56/2103 | 368/18800 | 0.01045 | 0.141876 | 0.12434 | ACVR1C | 56 |
| GO:002202BP | GO:002:telencepha | 13/2103 | 58/18800 | 0.01048 | 0.141876 | 0.12434 | ADGRG | 13 |
| GO:001645BP | GO:001:peptide ho | 9/2103 | 34/18800 | 0.01051 | 0.141876 | 0.12434 | CTSZ/DI | 9 |
| GO:000325BP | GO:000:atrial septu | 7/2103 | 23/18800 | 0.01055 | 0.141876 | 0.12434 | BMPR2/ | 7 |
| GO:003106BP | GO:003:negative re | 7/2103 | 23/18800 | 0.01055 | 0.141876 | 0.12434 | BCOR/B | 7 |
| GO:004554BP | GO:004:regulation | 7/2103 | 23/18800 | 0.01055 | 0.141876 | 0.12434 | ABCG1/ | 7 |
| GO:010611BP | GO:010:regulation | 7/2103 | 23/18800 | 0.01055 | 0.141876 | 0.12434 | ABCG1/ | 7 |
| GO:000743BP | GO:000:axonogene | 64/2103 | 430/18800 | 0.01056 | 0.141876 | 0.12434 | ACTB/A | 64 |
| GO:000645BP | GO:000:protein gly | 37/2103 | 225/18800 | 0.0106 | 0.141876 | 0.12434 | ALG10/ | 37 |
| GO:004341BP | GO:004:macromole | 37/2103 | 225/18800 | 0.0106 | 0.141876 | 0.12434 | ALG10/ | 37 |
| GO:001821BP | GO:001:peptidyl-ty | 57/2103 | 376/18800 | 0.01062 | 0.141876 | 0.12434 | ADAM1 | 57 |
| GO:002263BP | GO:002:digestive s | 20/2103 | 104/18800 | 0.01069 | 0.141876 | 0.12434 | ACO1/A | 20 |
| GO:001657BP | GO:001:histone ac | 29/2103 | 167/18800 | 0.01075 | 0.141876 | 0.12434 | ACTB/BI | 29 |
| GO:000223BP | GO:000:somatic re | 12/2103 | 52/18800 | 0.01081 | 0.141876 | 0.12434 | ERCC1/I | 12 |
| GO:000223BP | GO:000:somatic di | 12/2103 | 52/18800 | 0.01081 | 0.141876 | 0.12434 | ERCC1/I | 12 |
| GO:004515BP | GO:004:isotype swi | 12/2103 | 52/18800 | 0.01081 | 0.141876 | 0.12434 | ERCC1/I | 12 |
| GO:190293BP | GO:190:regulation | 12/2103 | 52/18800 | 0.01081 | 0.141876 | 0.12434 | ABCG1/ | 12 |
| GO:200014BP | GO:200:negative re | 55/2103 | 361/18800 | 0.01083 | 0.141876 | 0.12434 | ABHD2/ | 55 |
| GO:004255BP | GO:004:response t | 33/2103 | 196/18800 | 0.01084 | 0.141876 | 0.12434 | ACADM | 33 |
| GO:000703BP | GO:000:Golgi orga | 28/2103 | 160/18800 | 0.01088 | 0.141876 | 0.12434 | AKAP9/I | 28 |
| GO:000597BP | GO:000:glycogen k | 11/2103 | 46/18800 | 0.01098 | 0.141876 | 0.12434 | ACADM | 11 |
| GO:000925BP | GO:000:glucan bio | 11/2103 | 46/18800 | 0.01098 | 0.141876 | 0.12434 | ACADM | 11 |
| GO:000265BP | GO:000:positive re | 6/2103 | 18/18800 | 0.01099 | 0.141876 | 0.12434 | ADAM8 | 6 |
| GO:000695BP | GO:000:response t | 6/2103 | 18/18800 | 0.01099 | 0.141876 | 0.12434 | ERLIN2/ | 6 |
| GO:003603BP | GO:003:osteoclast | 6/2103 | 18/18800 | 0.01099 | 0.141876 | 0.12434 | FAM20C | 6 |
| GO:007131BP | GO:007:cellular res | 6/2103 | 18/18800 | 0.01099 | 0.141876 | 0.12434 | HSP90B | 6 |
| GO:007207BP | GO:007:renal vesic | 6/2103 | 18/18800 | 0.01099 | 0.141876 | 0.12434 | FMN1/K | 6 |
| GO:200064BP | GO:200:regulation | 6/2103 | 18/18800 | 0.01099 | 0.141876 | 0.12434 | CHMP3 | 6 |
| GO:005126BP | GO:005:protein de | 22/2103 | 118/18800 | 0.01102 | 0.141977 | 0.12443 | ADD1/A | 22 |
| GO:004671BP | GO:004:viral entry | 26/2103 | 146/18800 | 0.01107 | 0.142217 | 0.12464 | AXL/CA | 26 |
| GO:004324BP | GO:004:regulation | 23/2103 | 125/18800 | 0.0111 | 0.142217 | 0.12464 | ADD1/A | 23 |
| GO:190393BP | GO:190:regulation | 25/2103 | 139/18800 | 0.01112 | 0.142217 | 0.12464 | ADAR/A | 25 |
| GO:005067BP | GO:005:positive re | 35/2103 | 211/18800 | 0.01114 | 0.142217 | 0.12464 | ACVRL1 | 35 |
| GO:006063BP | GO:006:tube closu | 18/2103 | 91/18800 | 0.01125 | 0.143107 | 0.12542 | APAF1/E | 18 |
| GO:001922BP | GO:001:cytokine-n | 71/2103 | 486/18800 | 0.01126 | 0.143107 | 0.12542 | ACTN4/ | 71 |
| GO:000647BP | GO:000:internal pr | 30/2103 | 175/18800 | 0.01146 | 0.144775 | 0.12688 | ACTB/BI | 30 |

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|-------------|--------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:000665BP | GO:000steroid bio | 30/2103 | 175/18800 | 0.01146 | 0.144775 | 0.12688 | ABCG1/ | 30 |
| GO:004685BP | GO:004regulation | 30/2103 | 175/18800 | 0.01146 | 0.144775 | 0.12688 | ABCD2/ | 30 |
| GO:005141BP | GO:005neuron ap | 39/2103 | 241/18800 | 0.01148 | 0.144775 | 0.12688 | ADAM8. | 39 |
| GO:007061BP | GO:007regulation | 14/2103 | 65/18800 | 0.01152 | 0.14494 | 0.12703 | ADAM8. | 14 |
| GO:004325BP | GO:004regulation | 60/2103 | 401/18800 | 0.01167 | 0.146455 | 0.12836 | ABCA1/. | 60 |
| GO:007145BP | GO:007cellular res | 48/2103 | 309/18800 | 0.01172 | 0.146828 | 0.12868 | AGT/AS | 48 |
| GO:000741BP | GO:000axon guid | 38/2103 | 234/18800 | 0.01181 | 0.147338 | 0.12913 | ALCAM/ | 38 |
| GO:006055BP | GO:006developme | 38/2103 | 234/18800 | 0.01181 | 0.147338 | 0.12913 | ALCAM/ | 38 |
| GO:190165BP | GO:190response t | 32/2103 | 190/18800 | 0.01191 | 0.148264 | 0.12994 | ABCB4/. | 32 |
| GO:003405BP | GO:003protein loc | 8/2103 | 29/18800 | 0.01203 | 0.149096 | 0.13067 | ARL5A/C | 8 |
| GO:006501BP | GO:006protein-lip | 8/2103 | 29/18800 | 0.01203 | 0.149096 | 0.13067 | ABCA1/. | 8 |
| GO:003582BP | GO:003homologi | 13/2103 | 59/18800 | 0.0121 | 0.149257 | 0.13081 | ATM/BR | 13 |
| GO:004688BP | GO:004positive re | 17/2103 | 85/18800 | 0.01214 | 0.149257 | 0.13081 | ABCD2/ | 17 |
| GO:005092BP | GO:005positive re | 25/2103 | 140/18800 | 0.01214 | 0.149257 | 0.13081 | ADAM1 | 25 |
| GO:004855BP | GO:004developme | 37/2103 | 227/18800 | 0.01214 | 0.149257 | 0.13081 | AGT/AL | 37 |
| GO:004861BP | GO:004reproducti | 64/2103 | 433/18800 | 0.0122 | 0.149681 | 0.13118 | ACVR2A | 64 |
| GO:006007BP | GO:006Wnt signal | 12/2103 | 53/18800 | 0.01258 | 0.154055 | 0.13502 | CELSR1/ | 12 |
| GO:009745BP | GO:009neuron prc | 38/2103 | 235/18800 | 0.01261 | 0.15412 | 0.13508 | ALCAM/ | 38 |
| GO:009875BP | GO:009bone cell c | 9/2103 | 35/18800 | 0.01278 | 0.155831 | 0.13657 | FAM20C | 9 |
| GO:004361BP | GO:004keratinocyt | 11/2103 | 47/18800 | 0.01292 | 0.156874 | 0.13749 | CD109/ | 11 |
| GO:005091BP | GO:005negative cl | 11/2103 | 47/18800 | 0.01292 | 0.156874 | 0.13749 | APOA1/ | 11 |
| GO:000271BP | GO:000positive re | 10/2103 | 41/18800 | 0.01302 | 0.157011 | 0.13761 | C3/HMC | 10 |
| GO:000285BP | GO:000positive re | 10/2103 | 41/18800 | 0.01302 | 0.157011 | 0.13761 | C3/HMC | 10 |
| GO:004542BP | GO:004positive re | 10/2103 | 41/18800 | 0.01302 | 0.157011 | 0.13761 | AGT/DC | 10 |
| GO:003465BP | GO:003cellular car | 16/2103 | 79/18800 | 0.01306 | 0.157011 | 0.13761 | ACADM | 16 |
| GO:007082BP | GO:007heterochrc | 16/2103 | 79/18800 | 0.01306 | 0.157011 | 0.13761 | CTCF/E2 | 16 |
| GO:004684BP | GO:004filopodium | 14/2103 | 66/18800 | 0.01316 | 0.157863 | 0.13836 | AGRN/E | 14 |
| GO:000265BP | GO:000positive re | 25/2103 | 141/18800 | 0.01324 | 0.158447 | 0.13887 | ADAM1 | 25 |
| GO:004871BP | GO:004embryonic | 23/2103 | 127/18800 | 0.01335 | 0.15899 | 0.13934 | ACVR2A | 23 |
| GO:004875BP | GO:004appendage | 30/2103 | 177/18800 | 0.01336 | 0.15899 | 0.13934 | ASPH/B | 30 |
| GO:006017BP | GO:006limb devel | 30/2103 | 177/18800 | 0.01336 | 0.15899 | 0.13934 | ASPH/B | 30 |
| GO:000177BP | GO:000plasma me | 7/2103 | 24/18800 | 0.01348 | 0.159467 | 0.13976 | ANXA6/ | 7 |
| GO:000205BP | GO:000positive re | 7/2103 | 24/18800 | 0.01348 | 0.159467 | 0.13976 | CX3CL1 | 7 |
| GO:000305BP | GO:000regulation | 7/2103 | 24/18800 | 0.01348 | 0.159467 | 0.13976 | AGT/CT | 7 |
| GO:003362BP | GO:003cell adhesi | 17/2103 | 86/18800 | 0.0136 | 0.160522 | 0.14069 | ADAM1 | 17 |
| GO:000931BP | GO:000protein sec | 53/2103 | 350/18800 | 0.01363 | 0.160628 | 0.14078 | AACS/A | 53 |
| GO:007005BP | GO:007glycosylati | 39/2103 | 244/18800 | 0.01393 | 0.163751 | 0.14352 | ALG10/ | 39 |
| GO:006145BP | GO:006reproducti | 64/2103 | 436/18800 | 0.01405 | 0.164874 | 0.1445 | ACVR2A | 64 |
| GO:003555BP | GO:003establishm | 53/2103 | 351/18800 | 0.01436 | 0.167019 | 0.14638 | AACS/A | 53 |
| GO:005071BP | GO:005regulation | 40/2103 | 252/18800 | 0.01437 | 0.167019 | 0.14638 | AACS/A | 40 |
| GO:003321BP | GO:003tumor necr | 20/2103 | 107/18800 | 0.01448 | 0.167019 | 0.14638 | ACTN4/ | 20 |
| GO:004562BP | GO:004positive re | 20/2103 | 107/18800 | 0.01448 | 0.167019 | 0.14638 | ADAM8. | 20 |
| GO:006014BP | GO:006negative re | 6/2103 | 19/18800 | 0.01457 | 0.167019 | 0.14638 | ADAR/E | 6 |
| GO:006095BP | GO:006negative re | 6/2103 | 19/18800 | 0.01457 | 0.167019 | 0.14638 | ADAR/E | 6 |
| GO:007205BP | GO:007renal vesicl | 6/2103 | 19/18800 | 0.01457 | 0.167019 | 0.14638 | FMN1/K | 6 |
| GO:190035BP | GO:190negative re | 6/2103 | 19/18800 | 0.01457 | 0.167019 | 0.14638 | ADAR/E | 6 |
| GO:003052BP | GO:003intracellula | 12/2103 | 54/18800 | 0.01458 | 0.167019 | 0.14638 | BRCA1/ | 12 |
| GO:004205BP | GO:004wound hea | 63/2103 | 429/18800 | 0.0146 | 0.167019 | 0.14638 | ACTB/A | 63 |
| GO:004484BP | GO:004estrous cyc | 5/2103 | 14/18800 | 0.01466 | 0.167019 | 0.14638 | HAS2/M | 5 |
| GO:005175BP | GO:005actin cross | 5/2103 | 14/18800 | 0.01466 | 0.167019 | 0.14638 | DPYSL3 | 5 |
| GO:007235BP | GO:007tricarboxyli | 5/2103 | 14/18800 | 0.01466 | 0.167019 | 0.14638 | ACLY/A | 5 |
| GO:007267BP | GO:007neutrophil | 5/2103 | 14/18800 | 0.01466 | 0.167019 | 0.14638 | ADAM8. | 5 |
| GO:190595BP | GO:190regulation | 5/2103 | 14/18800 | 0.01466 | 0.167019 | 0.14638 | GDF9/IN | 5 |
| GO:000157BP | GO:000vasculoger | 16/2103 | 80/18800 | 0.01468 | 0.167019 | 0.14638 | CAV1/C | 16 |
| GO:000072BP | GO:000recombina | 28/2103 | 164/18800 | 0.01497 | 0.169975 | 0.14897 | ACTB/A | 28 |
| GO:001075BP | GO:001fibroblast r | 11/2103 | 48/18800 | 0.01511 | 0.171257 | 0.15009 | AKAP12 | 11 |
| GO:003502BP | GO:003regulation | 17/2103 | 87/18800 | 0.01519 | 0.171493 | 0.1503 | ABCA1/. | 17 |
| GO:004505BP | GO:004regulation | 17/2103 | 87/18800 | 0.01519 | 0.171493 | 0.1503 | ADAR/A | 17 |
| GO:004505BP | GO:004regulatory | 9/2103 | 36/18800 | 0.01539 | 0.172203 | 0.15092 | CD46/C | 9 |

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|-------------|----------------------|---------|-----------|---------|----------|---------|---------|----|
| GO:004574BP | GO:004!positive re | 9/2103 | 36/18800 | 0.01539 | 0.172203 | 0.15092 | ADAM1 | 9 |
| GO:006095BP | GO:006!positive re | 9/2103 | 36/18800 | 0.01539 | 0.172203 | 0.15092 | ACTR2/ | 9 |
| GO:014044BP | GO:014!signaling r | 9/2103 | 36/18800 | 0.01539 | 0.172203 | 0.15092 | CTSZ/DI | 9 |
| GO:004502BP | GO:004!early endo | 10/2103 | 42/18800 | 0.01542 | 0.172203 | 0.15092 | ATG14/ | 10 |
| GO:000961BP | GO:000!response t | 33/2103 | 201/18800 | 0.01548 | 0.172203 | 0.15092 | ACTG1/ | 33 |
| GO:005166BP | GO:005!protein ma | 48/2103 | 314/18800 | 0.01549 | 0.172203 | 0.15092 | ADAM1 | 48 |
| GO:004346BP | GO:004!negative re | 30/2103 | 179/18800 | 0.0155 | 0.172203 | 0.15092 | ABCA7/ | 30 |
| GO:190382BP | GO:190!positive re | 65/2103 | 446/18800 | 0.01551 | 0.172203 | 0.15092 | AACS/A | 65 |
| GO:004647BP | GO:004!phosphatic | 15/2103 | 74/18800 | 0.01581 | 0.175172 | 0.15353 | ABHD4/ | 15 |
| GO:199015BP | GO:199!neuron prc | 29/2103 | 172/18800 | 0.01584 | 0.175188 | 0.15354 | ALCAM/ | 29 |
| GO:003222BP | GO:003!positive re | 13/2103 | 61/18800 | 0.01591 | 0.175229 | 0.15358 | APOA1/ | 13 |
| GO:004542BP | GO:004!regulation | 13/2103 | 61/18800 | 0.01591 | 0.175229 | 0.15358 | AGT/CA | 13 |
| GO:200002BP | GO:200!regulation | 23/2103 | 129/18800 | 0.01595 | 0.175229 | 0.15358 | AGT/BT | 23 |
| GO:000717BP | GO:000!epidermal | 20/2103 | 108/18800 | 0.01596 | 0.175229 | 0.15358 | ADAM1 | 20 |
| GO:000761BP | GO:000!memory | 22/2103 | 122/18800 | 0.01602 | 0.175519 | 0.15383 | ABCA7/ | 22 |
| GO:005126BP | GO:005!protein ho | 31/2103 | 187/18800 | 0.01628 | 0.178066 | 0.15606 | ACACA/ | 31 |
| GO:003227BP | GO:003!negative re | 16/2103 | 81/18800 | 0.01645 | 0.179602 | 0.15741 | ADD1/A | 16 |
| GO:005125BP | GO:005!protein po | 43/2103 | 277/18800 | 0.01651 | 0.179951 | 0.15771 | ADD1/A | 43 |
| GO:000741BP | GO:000!synapse as | 30/2103 | 180/18800 | 0.01667 | 0.18028 | 0.158 | ADGRF1 | 30 |
| GO:000675BP | GO:000!nucleoside | 71/2103 | 495/18800 | 0.0167 | 0.18028 | 0.158 | ABHD14 | 71 |
| GO:000836BP | GO:000!regulation | 26/2103 | 151/18800 | 0.01675 | 0.18028 | 0.158 | ALDOA/ | 26 |
| GO:000317BP | GO:000!heart valve | 12/2103 | 55/18800 | 0.0168 | 0.18028 | 0.158 | ADAMT | 12 |
| GO:004501BP | GO:004!actin nucle | 12/2103 | 55/18800 | 0.0168 | 0.18028 | 0.158 | ACTR2/ | 12 |
| GO:004806BP | GO:004!platelet-de | 12/2103 | 55/18800 | 0.0168 | 0.18028 | 0.158 | APOD/H | 12 |
| GO:006095BP | GO:006!regulation | 12/2103 | 55/18800 | 0.0168 | 0.18028 | 0.158 | ACTR2/ | 12 |
| GO:005196BP | GO:005!regulation | 64/2103 | 440/18800 | 0.01687 | 0.18028 | 0.158 | ACTR2/ | 64 |
| GO:004341BP | GO:004!macromole | 50/2103 | 331/18800 | 0.01689 | 0.18028 | 0.158 | ARID4B/ | 50 |
| GO:001405BP | GO:001!mesenchyr | 17/2103 | 88/18800 | 0.01692 | 0.18028 | 0.158 | ANXA6/ | 17 |
| GO:000692BP | GO:000!substrate- | 7/2103 | 25/18800 | 0.01696 | 0.18028 | 0.158 | ADAM8 | 7 |
| GO:003157BP | GO:003!membrane | 7/2103 | 25/18800 | 0.01696 | 0.18028 | 0.158 | ABCA7/ | 7 |
| GO:190552BP | GO:190!positive re | 7/2103 | 25/18800 | 0.01696 | 0.18028 | 0.158 | C3AR1/ | 7 |
| GO:006116BP | GO:006!mammary | 14/2103 | 68/18800 | 0.01697 | 0.18028 | 0.158 | DEAF1/ | 14 |
| GO:005155BP | GO:005!response t | 25/2103 | 144/18800 | 0.017 | 0.18028 | 0.158 | ACTG1/ | 25 |
| GO:005134BP | GO:005!negative re | 42/2103 | 270/18800 | 0.01709 | 0.180931 | 0.15857 | ADAR/A | 42 |
| GO:005092BP | GO:005!regulation | 36/2103 | 225/18800 | 0.01733 | 0.183107 | 0.16048 | ADAM1 | 36 |
| GO:000657BP | GO:000!cellular mc | 31/2103 | 188/18800 | 0.01747 | 0.184306 | 0.16153 | ACADM | 31 |
| GO:004346BP | GO:004!positive re | 21/2103 | 116/18800 | 0.01757 | 0.185026 | 0.16216 | ADAM8 | 21 |
| GO:005186BP | GO:005!protein aut | 15/2103 | 75/18800 | 0.01778 | 0.186245 | 0.16323 | BRCA1/ | 15 |
| GO:007147BP | GO:007!cellular res | 15/2103 | 75/18800 | 0.01778 | 0.186245 | 0.16323 | ATM/AT | 15 |
| GO:014005BP | GO:014!organelle l | 15/2103 | 75/18800 | 0.01778 | 0.186245 | 0.16323 | AHCYL1 | 15 |
| GO:004801BP | GO:004!inositol lipi | 30/2103 | 181/18800 | 0.01791 | 0.186716 | 0.16364 | AGT/ED | 30 |
| GO:000597BP | GO:000!regulation | 8/2103 | 31/18800 | 0.01808 | 0.186716 | 0.16364 | EPM2A/ | 8 |
| GO:001096BP | GO:001!regulation | 8/2103 | 31/18800 | 0.01808 | 0.186716 | 0.16364 | EPM2A/ | 8 |
| GO:003015BP | GO:003!collagen fil | 13/2103 | 62/18800 | 0.01813 | 0.186716 | 0.16364 | ADAMT | 13 |
| GO:007166BP | GO:007!transformir | 10/2103 | 43/18800 | 0.01814 | 0.186716 | 0.16364 | CD46/C | 10 |
| GO:004815BP | GO:004!Golgi vesic | 45/2103 | 294/18800 | 0.01821 | 0.186716 | 0.16364 | ACSL3/ | 45 |
| GO:003017BP | GO:003!negative re | 29/2103 | 174/18800 | 0.01835 | 0.186716 | 0.16364 | CAV1/C | 29 |
| GO:004255BP | GO:004!fear respor | 9/2103 | 37/18800 | 0.01837 | 0.186716 | 0.16364 | ADRA2/ | 9 |
| GO:007252BP | GO:007!pyrimidine | 9/2103 | 37/18800 | 0.01837 | 0.186716 | 0.16364 | ALDH6/ | 9 |
| GO:190102BP | GO:190!positive re | 9/2103 | 37/18800 | 0.01837 | 0.186716 | 0.16364 | ATP2A1 | 9 |
| GO:004354BP | GO:004!endothelia | 43/2103 | 279/18800 | 0.0185 | 0.186716 | 0.16364 | ACVRL1 | 43 |
| GO:005164BP | GO:005!vesicle loc | 31/2103 | 189/18800 | 0.01873 | 0.186716 | 0.16364 | ACTN4/ | 31 |
| GO:000295BP | GO:000!desmosom | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | DSG2/JL | 4 |
| GO:000341BP | GO:000!growth pla | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | ANXA6/ | 4 |
| GO:000935BP | GO:000!folic acid-c | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | DHFR2/ | 4 |
| GO:001846BP | GO:001!peptidyl-p | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | EGLN1/ | 4 |
| GO:001906BP | GO:001!virion attac | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | GAS6/IC | 4 |
| GO:003348BP | GO:003!gas homec | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | CAV1/E | 4 |
| GO:004554BP | GO:004!positive re | 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 | ABCG1/ | 4 |

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|-------------|----------------------------|-----------|---------|----------|------------------|----|
| GO:004575BP | GO:004!positive re4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 AKT3/EL | 4 |
| GO:007217BP | GO:007!metanephri4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 HES1/PL | 4 |
| GO:009015BP | GO:009!positive re4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 FOXD1/ | 4 |
| GO:009704BP | GO:009!motor neu4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 CRLF1/F | 4 |
| GO:009890BP | GO:009!regulation 4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 CACNB3 | 4 |
| GO:010612BP | GO:010!positive re4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 ABCG1/ | 4 |
| GO:190120BP | GO:190!positive re4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 PHLDB1 | 4 |
| GO:200120BP | GO:200!positive re4/2103 | 10/18800 | 0.01882 | 0.186716 | 0.16364 FAS/GSI | 4 |
| GO:001591BP | GO:001!peroxisom6/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 ABCD2/ | 6 |
| GO:004365BP | GO:004!reverse chr6/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 ABCA1/. | 6 |
| GO:004395BP | GO:004!histone H46/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 BRCA1/I | 6 |
| GO:004645BP | GO:004!ether lipid 6/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 FASN/LI | 6 |
| GO:004665BP | GO:004!tetrahydro 6/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 ALDH1L | 6 |
| GO:006145BP | GO:006!hematopoi6/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 ADAR/A | 6 |
| GO:007025BP | GO:007!renal absoi6/2103 | 20/18800 | 0.01889 | 0.186716 | 0.16364 EDN1/G | 6 |
| GO:000665BP | GO:000!acylglycerc23/2103 | 131/18800 | 0.01893 | 0.186764 | 0.16368 ABHD2/ | 23 |
| GO:000664BP | GO:000!triglyceride19/2103 | 103/18800 | 0.01923 | 0.189423 | 0.16602 APOA1/ | 19 |
| GO:001820BP | GO:001!peptidyl-p 12/2103 | 56/18800 | 0.01927 | 0.189505 | 0.16609 AIP/EGL | 12 |
| GO:004440BP | GO:004!entry into l26/2103 | 153/18800 | 0.01958 | 0.192227 | 0.16847 AXL/CA' | 26 |
| GO:000072BP | GO:000!telomere n5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 ERCC1/I | 5 |
| GO:000341BP | GO:000!chondrocy 5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 ANXA6/ | 5 |
| GO:000627BP | GO:000!DNA stran5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 LIG1/MC | 5 |
| GO:001075BP | GO:001!regulation 5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 CTSZ/M | 5 |
| GO:003295BP | GO:003!SREBP sign5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 ERLIN2/ | 5 |
| GO:003314BP | GO:003!negative re5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 BRCA1/I | 5 |
| GO:003435BP | GO:003!high-densi5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 ABCA1/. | 5 |
| GO:003545BP | GO:003!phosphate 5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 SLC20A | 5 |
| GO:004665BP | GO:004!folic acid n5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 ALDH1L | 5 |
| GO:005175BP | GO:005!medium-cl5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 ABHD2/ | 5 |
| GO:006005BP | GO:006!inhibitory r5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 GRIK2/II | 5 |
| GO:006041BP | GO:006!atrial septu5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 BMPR2/ | 5 |
| GO:006045BP | GO:006!positive re5/2103 | 15/18800 | 0.02001 | 0.192321 | 0.16856 LPCAT3, | 5 |
| GO:004881BP | GO:004!dendrite m24/2103 | 139/18800 | 0.02028 | 0.194603 | 0.17055 ACTR2/(| 24 |
| GO:003105BP | GO:003!negative re11/2103 | 50/18800 | 0.02032 | 0.194658 | 0.1706 BCOR/B | 11 |
| GO:000665BP | GO:000!neutral lipi23/2103 | 132/18800 | 0.02057 | 0.196648 | 0.17235 ABHD2/ | 23 |
| GO:003385BP | GO:003!nucleoside 22/2103 | 125/18800 | 0.02082 | 0.196648 | 0.17235 ABHD14 | 22 |
| GO:003387BP | GO:003!ribonucleo 22/2103 | 125/18800 | 0.02082 | 0.196648 | 0.17235 ABHD14 | 22 |
| GO:003405BP | GO:003!purine nuc22/2103 | 125/18800 | 0.02082 | 0.196648 | 0.17235 ABHD14 | 22 |
| GO:004605BP | GO:004!ADP meta17/2103 | 90/18800 | 0.02084 | 0.196648 | 0.17235 AK3/AK- | 17 |
| GO:003287BP | GO:003!regulation 32/2103 | 198/18800 | 0.02085 | 0.196648 | 0.17235 CCN2/D | 32 |
| GO:003165BP | GO:003!cellular res34/2103 | 213/18800 | 0.02093 | 0.196648 | 0.17235 ATG14/I | 34 |
| GO:000825BP | GO:000!insulin rece21/2103 | 118/18800 | 0.021 | 0.196648 | 0.17235 AGT/AP | 21 |
| GO:000631BP | GO:000!mitotic rec7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 ERCC1/I | 7 |
| GO:003265BP | GO:003!negative re7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 APOD/E | 7 |
| GO:003355BP | GO:003!mammary 7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 DEAF1/(| 7 |
| GO:003437BP | GO:003!plasma lipc7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 ABCA1/. | 7 |
| GO:005101BP | GO:005!barbed-en7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 ADD1/A | 7 |
| GO:190435BP | GO:190!regulation 7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 ATM/ER | 7 |
| GO:190435BP | GO:190!cellular res7/2103 | 26/18800 | 0.02102 | 0.196648 | 0.17235 AGT/AG | 7 |
| GO:004580BP | GO:004!positive re18/2103 | 97/18800 | 0.02106 | 0.196674 | 0.17237 ABCA7/. | 18 |
| GO:001921BP | GO:001!regulation 19/2103 | 104/18800 | 0.02114 | 0.197137 | 0.17278 ABCG1/ | 19 |
| GO:190485BP | GO:190!cranial skel14/2103 | 70/18800 | 0.02156 | 0.200224 | 0.17548 EXT1/FC | 14 |
| GO:004515BP | GO:004!regulation 9/2103 | 38/18800 | 0.02175 | 0.200224 | 0.17548 HMCES/ | 9 |
| GO:190115BP | GO:190!positive re9/2103 | 38/18800 | 0.02175 | 0.200224 | 0.17548 ADAM1 | 9 |
| GO:003011BP | GO:003!regulation 50/2103 | 336/18800 | 0.02179 | 0.200224 | 0.17548 CAPRIN | 50 |
| GO:000205BP | GO:000!chondrocy 8/2103 | 32/18800 | 0.02181 | 0.200224 | 0.17548 BMPR2/ | 8 |
| GO:001657BP | GO:001!histone de8/2103 | 32/18800 | 0.02181 | 0.200224 | 0.17548 FBXL19/ | 8 |
| GO:003435BP | GO:003!protein-co8/2103 | 32/18800 | 0.02181 | 0.200224 | 0.17548 ABCA5/. | 8 |
| GO:003545BP | GO:003!response tr8/2103 | 32/18800 | 0.02181 | 0.200224 | 0.17548 BST2/C/ | 8 |

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|-------------|----------------------------|-----------|---------|----------|-----------------|----|
| GO:003625BP | GO:003interstrand8/2103 | 32/18800 | 0.02181 | 0.200224 | 0.17548 ATR/ERC | 8 |
| GO:009015BP | GO:009regulation 8/2103 | 32/18800 | 0.02181 | 0.200224 | 0.17548 AGT/FO | 8 |
| GO:004215BP | GO:004lipoprotein24/2103 | 140/18800 | 0.02196 | 0.201067 | 0.17622 ABCA1/ | 24 |
| GO:000195BP | GO:000positive re12/2103 | 57/18800 | 0.022 | 0.201067 | 0.17622 ADAM1 | 12 |
| GO:009017BP | GO:009regulation 12/2103 | 57/18800 | 0.022 | 0.201067 | 0.17622 CELSR1/ | 12 |
| GO:000072BP | GO:000double-str27/2103 | 162/18800 | 0.02225 | 0.202031 | 0.17707 ACTB/A | 27 |
| GO:000185BP | GO:000epithelial tr27/2103 | 162/18800 | 0.02225 | 0.202031 | 0.17707 ADAM1 | 27 |
| GO:003055BP | GO:003BMP signal27/2103 | 162/18800 | 0.02225 | 0.202031 | 0.17707 ACVR2A | 27 |
| GO:007167BP | GO:007mononucle32/2103 | 199/18800 | 0.02226 | 0.202031 | 0.17707 ADAM1 | 32 |
| GO:004591BP | GO:004positive re15/2103 | 77/18800 | 0.02227 | 0.202031 | 0.17707 EPM2A | 15 |
| GO:004801BP | GO:004phosphatic29/2103 | 177/18800 | 0.0227 | 0.20546 | 0.18007 AGT/ED | 29 |
| GO:007127BP | GO:007cellular res16/2103 | 84/18800 | 0.02276 | 0.20546 | 0.18007 ADD1/B | 16 |
| GO:009705BP | GO:009regulation 16/2103 | 84/18800 | 0.02276 | 0.20546 | 0.18007 ABCA1/ | 16 |
| GO:003225BP | GO:003methylation55/2103 | 376/18800 | 0.02284 | 0.20592 | 0.18047 ARID4B/ | 55 |
| GO:005077BP | GO:005regulation 18/2103 | 98/18800 | 0.02318 | 0.207191 | 0.18159 ACTR2/ | 18 |
| GO:003051BP | GO:003regulation 19/2103 | 105/18800 | 0.02319 | 0.207191 | 0.18159 ACVRL1 | 19 |
| GO:003165BP | GO:003zymogen s13/2103 | 64/18800 | 0.02327 | 0.207191 | 0.18159 APAF1/ | 13 |
| GO:003434BP | GO:003response tr13/2103 | 64/18800 | 0.02327 | 0.207191 | 0.18159 ADAR/C | 13 |
| GO:006075BP | GO:006positive re13/2103 | 64/18800 | 0.02327 | 0.207191 | 0.18159 ADAM1 | 13 |
| GO:200075BP | GO:200positive re13/2103 | 64/18800 | 0.02327 | 0.207191 | 0.18159 ACTB/A | 13 |
| GO:003165BP | GO:003cellular res38/2103 | 245/18800 | 0.02335 | 0.207191 | 0.18159 ASGR1/ | 38 |
| GO:003235BP | GO:003regulation 11/2103 | 51/18800 | 0.02337 | 0.207191 | 0.18159 ACVRL1 | 11 |
| GO:004325BP | GO:004positive re11/2103 | 51/18800 | 0.02337 | 0.207191 | 0.18159 ADRA2/ | 11 |
| GO:004327BP | GO:004apoptotic c11/2103 | 51/18800 | 0.02337 | 0.207191 | 0.18159 ABCA7/ | 11 |
| GO:007205BP | GO:007regulation 11/2103 | 51/18800 | 0.02337 | 0.207191 | 0.18159 AGO3/C | 11 |
| GO:000905BP | GO:000branched-6/2103 | 21/18800 | 0.02401 | 0.211289 | 0.18518 ACAD8/ | 6 |
| GO:003022BP | GO:003platelet for6/2103 | 21/18800 | 0.02401 | 0.211289 | 0.18518 ACTN1/ | 6 |
| GO:003365BP | GO:003positive re6/2103 | 21/18800 | 0.02401 | 0.211289 | 0.18518 CIB1/FC | 6 |
| GO:007165BP | GO:007positive re6/2103 | 21/18800 | 0.02401 | 0.211289 | 0.18518 CD46/C | 6 |
| GO:009955BP | GO:009maintenan6/2103 | 21/18800 | 0.02401 | 0.211289 | 0.18518 BSN/C1 | 6 |
| GO:003155BP | GO:003heterochrc14/2103 | 71/18800 | 0.02419 | 0.212557 | 0.18629 CTCF/E2 | 14 |
| GO:006082BP | GO:006regulation 40/2103 | 261/18800 | 0.02436 | 0.213765 | 0.18735 CAPRIN | 40 |
| GO:003535BP | GO:003thioester b10/2103 | 45/18800 | 0.0246 | 0.214901 | 0.18834 ACACA/ | 10 |
| GO:007161BP | GO:007acyl-CoA tr10/2103 | 45/18800 | 0.0246 | 0.214901 | 0.18834 ACACA/ | 10 |
| GO:009892BP | GO:009vesicle-me10/2103 | 45/18800 | 0.0246 | 0.214901 | 0.18834 ATG14/ | 10 |
| GO:007121BP | GO:007cellular res48/2103 | 323/18800 | 0.02472 | 0.215314 | 0.18871 AGT/AS | 48 |
| GO:010405BP | GO:010cellular res48/2103 | 323/18800 | 0.02472 | 0.215314 | 0.18871 AGT/AS | 48 |
| GO:003135BP | GO:003positive re64/2103 | 449/18800 | 0.02491 | 0.216405 | 0.18966 ABCD2/ | 64 |
| GO:004427BP | GO:004cellular nit64/2103 | 449/18800 | 0.02491 | 0.216405 | 0.18966 AGO2/A | 64 |
| GO:001635BP | GO:001dendrite d36/2103 | 231/18800 | 0.02504 | 0.217142 | 0.19031 ACTR2/ | 36 |
| GO:000854BP | GO:000fibroblast c16/2103 | 85/18800 | 0.02522 | 0.218092 | 0.19114 CCN2/E | 16 |
| GO:005085BP | GO:005endocrine 16/2103 | 85/18800 | 0.02522 | 0.218092 | 0.19114 AGT/C1 | 16 |
| GO:007035BP | GO:007regulation 32/2103 | 201/18800 | 0.02532 | 0.218651 | 0.19163 CCN2/D | 32 |
| GO:004577BP | GO:004positive re9/2103 | 39/18800 | 0.02556 | 0.218864 | 0.19182 BMPR2/ | 9 |
| GO:007165BP | GO:007regulation 9/2103 | 39/18800 | 0.02556 | 0.218864 | 0.19182 CD46/C | 9 |
| GO:003515BP | GO:003appendage24/2103 | 142/18800 | 0.02565 | 0.218864 | 0.19182 ASPH/B | 24 |
| GO:003515BP | GO:003limb morpl24/2103 | 142/18800 | 0.02565 | 0.218864 | 0.19182 ASPH/B | 24 |
| GO:004635BP | GO:004carboxylic 47/2103 | 316/18800 | 0.02568 | 0.218864 | 0.19182 ABCD2/ | 47 |
| GO:001055BP | GO:001miRNA me7/2103 | 27/18800 | 0.02571 | 0.218864 | 0.19182 AGO2/A | 7 |
| GO:001087BP | GO:001positive re7/2103 | 27/18800 | 0.02571 | 0.218864 | 0.19182 ABCA1/ | 7 |
| GO:003145BP | GO:003regulation 7/2103 | 27/18800 | 0.02571 | 0.218864 | 0.19182 KDM1A/ | 7 |
| GO:012025BP | GO:012regulation 7/2103 | 27/18800 | 0.02571 | 0.218864 | 0.19182 KDM1A/ | 7 |
| GO:190435BP | GO:190negative re7/2103 | 27/18800 | 0.02571 | 0.218864 | 0.19182 DCP2/EI | 7 |
| GO:000631BP | GO:000DNA recor48/2103 | 324/18800 | 0.02597 | 0.220711 | 0.19344 ACTB/A | 48 |
| GO:000335BP | GO:000epithelial c8/2103 | 33/18800 | 0.02604 | 0.221058 | 0.19374 COL18A | 8 |
| GO:190535BP | GO:190regulation 13/2103 | 65/18800 | 0.0262 | 0.221293 | 0.19395 AGT/BTI | 13 |
| GO:000634BP | GO:000regulation 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 ARID4B/ | 5 |
| GO:000765BP | GO:000chemosen5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 ADCY3/ | 5 |
| GO:003437BP | GO:003high-densi5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 ABCA5/ | 5 |

| | | | | | | | | |
|-------------|-----------------------|---------|-----------|----------|----------|----------|---------|----|
| GO:004224BP | GO:004!establishm | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | CELSR1/ | 5 |
| GO:004586BP | GO:004!negative re | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | APOBEC | 5 |
| GO:004826BP | GO:004!behavioral | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | CAPN2/ | 5 |
| GO:005101BP | GO:005!actin filam | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | FMNL1/ | 5 |
| GO:006084BP | GO:006!venous blo | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | ACVRL1 | 5 |
| GO:200105BP | GO:200!positive re | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | KDM4D | 5 |
| GO:200122BP | GO:200!positive re | 5/2103 | 16/18800 | 0.02648 | 0.221293 | 0.19395 | MDK/NI | 5 |
| GO:190495BP | GO:190!positive re | 46/2103 | 309/18800 | 0.02669 | 0.222329 | 0.19486 | AACS/A | 46 |
| GO:000912BP | GO:000!deoxyribor | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | DERA/D | 4 |
| GO:003555BP | GO:003!sequesterir | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | CD46/D | 4 |
| GO:003955BP | GO:003!MDA-5 sig | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | DDX60/ | 4 |
| GO:004395BP | GO:004!negative re | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | MGRN1 | 4 |
| GO:004825BP | GO:004!elastic fibe | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | EFEMP2 | 4 |
| GO:005156BP | GO:005!positive re | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | ATP2A1 | 4 |
| GO:007201BP | GO:007!distal tubu | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | CALB1/F | 4 |
| GO:009016BP | GO:009!Golgi to ly | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | ANKFY1 | 4 |
| GO:200004BP | GO:200!positive re | 4/2103 | 11/18800 | 0.027 | 0.222329 | 0.19486 | ADAM1 | 4 |
| GO:004677BP | GO:004!heterocyclus | 63/2103 | 443/18800 | 0.02702 | 0.222329 | 0.19486 | AGO2/A | 63 |
| GO:004856BP | GO:004!embryonic | 44/2103 | 294/18800 | 0.02739 | 0.225103 | 0.19729 | ALDH1A | 44 |
| GO:000301BP | GO:000!renal syste | 20/2103 | 114/18800 | 0.02746 | 0.225376 | 0.19753 | AGT/AK | 20 |
| GO:190355BP | GO:190!positive re | 19/2103 | 107/18800 | 0.02775 | 0.227391 | 0.19929 | ADAM8 | 19 |
| GO:000231BP | GO:000!B cell activ | 16/2103 | 86/18800 | 0.02787 | 0.228132 | 0.19994 | CR1/ER | 16 |
| GO:000592CC | GO:000!focal adhe | 90/2181 | 419/19594 | 5.17E-10 | 2.53E-07 | 2.19E-07 | ABCB4/ | 90 |
| GO:003005CC | GO:003!cell-substr | 91/2181 | 428/19594 | 7.19E-10 | 2.53E-07 | 2.19E-07 | ABCB4/ | 91 |
| GO:000567CC | GO:000!basement | 30/2181 | 95/19594 | 6.72E-08 | 1.57E-05 | 1.37E-05 | AGRN/A | 30 |
| GO:000578CC | GO:000!endoplasm | 66/2181 | 311/19594 | 1.65E-07 | 2.91E-05 | 2.52E-05 | ADAM1 | 66 |
| GO:001562CC | GO:001!actin cytos | 92/2181 | 499/19594 | 7.03E-07 | 9.89E-05 | 8.57E-05 | ABCB4/ | 92 |
| GO:006202CC | GO:006!collagen-c | 80/2181 | 429/19594 | 2.34E-06 | 0.000274 | 0.00024 | ADAM1 | 80 |
| GO:000595CC | GO:000!cell cortex | 61/2181 | 310/19594 | 6.48E-06 | 0.000651 | 0.00056 | ACTB/A | 61 |
| GO:003086CC | GO:003!cortical cyt | 28/2181 | 107/19594 | 1.14E-05 | 0.000998 | 0.00086 | ACTB/A | 28 |
| GO:003125CC | GO:003!cell leading | 75/2181 | 416/19594 | 1.65E-05 | 0.001287 | 0.00112 | ABCA7/ | 75 |
| GO:004264CC | GO:004!actomyosin | 21/2181 | 77/19594 | 7.14E-05 | 0.00502 | 0.00435 | ACTN1/ | 21 |
| GO:003245CC | GO:003!actin filam | 21/2181 | 78/19594 | 8.76E-05 | 0.005598 | 0.00485 | ACTN1/ | 21 |
| GO:003088CC | GO:003!cortical act | 20/2181 | 79/19594 | 0.00031 | 0.018206 | 0.01578 | ACTN1/ | 20 |
| GO:009895CC | GO:009!neuron to | 60/2181 | 347/19594 | 0.00035 | 0.018206 | 0.01578 | ACTR2/ | 60 |
| GO:000172CC | GO:000!stress fiber | 18/2181 | 69/19594 | 0.00042 | 0.018206 | 0.01578 | ACTN1/ | 18 |
| GO:009751CC | GO:009!contractile | 18/2181 | 69/19594 | 0.00042 | 0.018206 | 0.01578 | ACTN1/ | 18 |
| GO:009754CC | GO:009!ciliary tip | 14/2181 | 47/19594 | 0.00042 | 0.018206 | 0.01578 | CILK1/C | 14 |
| GO:000591CC | GO:000!cell-cell junc | 80/2181 | 497/19594 | 0.00044 | 0.018206 | 0.01578 | ABCB4/ | 80 |
| GO:003122CC | GO:003!intrinsic co | 34/2181 | 172/19594 | 0.00061 | 0.023731 | 0.02057 | ANKLE2 | 34 |
| GO:004512CC | GO:004!membrane | 56/2181 | 326/19594 | 0.00064 | 0.023731 | 0.02057 | ABCA1/ | 56 |
| GO:009885CC | GO:009!membrane | 56/2181 | 327/19594 | 0.00069 | 0.024319 | 0.02108 | ABCA1/ | 56 |
| GO:001985CC | GO:001!extrinsic cc | 54/2181 | 314/19594 | 0.00077 | 0.025822 | 0.02239 | ACADVL | 54 |
| GO:003002CC | GO:003!lamellipodi | 38/2181 | 202/19594 | 0.00083 | 0.02639 | 0.02288 | ACTB/A | 38 |
| GO:004325CC | GO:004!laminin cor | 6/2181 | 12/19594 | 0.00096 | 0.028978 | 0.02512 | LAMA3/ | 6 |
| GO:000172CC | GO:000!ruffle | 34/2181 | 177/19594 | 0.00104 | 0.028978 | 0.02512 | ABCA7/ | 34 |
| GO:001406CC | GO:001!postsynapt | 54/2181 | 318/19594 | 0.00104 | 0.028978 | 0.02512 | ACTR2/ | 54 |
| GO:003017CC | GO:003!filopodium | 23/2181 | 105/19594 | 0.00107 | 0.028978 | 0.02512 | ANTXR1 | 23 |
| GO:000591CC | GO:000!adherens junc | 33/2181 | 172/19594 | 0.00125 | 0.032425 | 0.02811 | ACTB/A | 33 |
| GO:009856CC | GO:009!cytoplasmic | 36/2181 | 193/19594 | 0.0013 | 0.032732 | 0.02838 | ASPSCR | 36 |
| GO:003227CC | GO:003!asymmetric | 54/2181 | 323/19594 | 0.0015 | 0.036257 | 0.03143 | ACTR2/ | 54 |
| GO:000985CC | GO:000!cytoplasmic | 32/2181 | 169/19594 | 0.00183 | 0.042805 | 0.03711 | ASPSCR | 32 |
| GO:001985CC | GO:001!extrinsic cc | 32/2181 | 170/19594 | 0.00202 | 0.045702 | 0.03962 | AKAP9/ | 32 |
| GO:003105CC | GO:003!platelet alfa | 20/2181 | 91/19594 | 0.00211 | 0.046338 | 0.04017 | ACTN1/ | 20 |
| GO:003105CC | GO:003!platelet alfa | 16/2181 | 67/19594 | 0.00234 | 0.049171 | 0.04263 | ACTN1/ | 16 |
| GO:003137CC | GO:003!intrinsic co | 65/2181 | 412/19594 | 0.00238 | 0.049171 | 0.04263 | ABCB10 | 65 |
| GO:000578CC | GO:000!peroxisome | 13/2181 | 50/19594 | 0.00263 | 0.050282 | 0.04359 | ACOX3/ | 13 |
| GO:003197CC | GO:003!microbody | 13/2181 | 50/19594 | 0.00263 | 0.050282 | 0.04359 | ACOX3/ | 13 |
| GO:009956CC | GO:009!presynaptic | 5/2181 | 10/19594 | 0.00265 | 0.050282 | 0.04359 | ACTG1/ | 5 |

| | | | | | | | | |
|-------------|------------------------|---------------|-----------|----------|----------|---------|---------|----|
| GO:004485CC | GO:004:plasma membrane | 23/2181 | 113/19594 | 0.00296 | 0.054745 | 0.04746 | BMPR2/ | 23 |
| GO:009957CC | GO:009:postsynaptic | 55/2181 | 341/19594 | 0.00305 | 0.055058 | 0.04773 | ACTR2/ | 55 |
| GO:006017CC | GO:006:ciliary | men17/2181 | 75/19594 | 0.00313 | 0.055061 | 0.04774 | ADCY3/ | 17 |
| GO:000577CC | GO:000:peroxisome | 27/2181 | 141/19594 | 0.00338 | 0.055934 | 0.04849 | ABCD2/ | 27 |
| GO:004257CC | GO:004:microbody | 27/2181 | 141/19594 | 0.00338 | 0.055934 | 0.04849 | ABCD2/ | 27 |
| GO:190256CC | GO:190:H4 histone | 11/2181 | 40/19594 | 0.00342 | 0.055934 | 0.04849 | ACTB/A | 11 |
| GO:000576CC | GO:000:early endo | 61/2181 | 389/19594 | 0.00364 | 0.058222 | 0.05048 | ABCA7/ | 61 |
| GO:003477CC | GO:003:secretory | c52/2181 | 322/19594 | 0.00379 | 0.059244 | 0.05136 | ACLY/A | 52 |
| GO:003017CC | GO:003:integral co | 30/2181 | 164/19594 | 0.00423 | 0.064475 | 0.0559 | ANKLE2 | 30 |
| GO:003125CC | GO:003:cell project | 54/2181 | 339/19594 | 0.00431 | 0.064475 | 0.0559 | ABCA7/ | 54 |
| GO:006020CC | GO:006:cytoplasmic | 52/2181 | 325/19594 | 0.00459 | 0.067193 | 0.05825 | ACLY/A | 52 |
| GO:004530CC | GO:004:phagocytic | 26/2181 | 138/19594 | 0.00497 | 0.070238 | 0.06089 | ABCA1/ | 26 |
| GO:000076CC | GO:000:chromosome | 30/2181 | 166/19594 | 0.00507 | 0.070238 | 0.06089 | ATM/AT | 30 |
| GO:003196CC | GO:003:vesicle | lum52/2181 | 327/19594 | 0.00519 | 0.070238 | 0.06089 | ACLY/A | 52 |
| GO:003066CC | GO:003:secretory | c50/2181 | 312/19594 | 0.0052 | 0.070238 | 0.06089 | ADAM8 | 50 |
| GO:009885CC | GO:009:actin-base | 37/2181 | 217/19594 | 0.00551 | 0.07302 | 0.06331 | ANTXR1 | 37 |
| GO:000587CC | GO:000:microtubule | 66/2181 | 435/19594 | 0.00561 | 0.07302 | 0.06331 | AKNA/B | 66 |
| GO:003130CC | GO:003:integral co | 59/2181 | 382/19594 | 0.00583 | 0.074456 | 0.06455 | ABCB10 | 59 |
| GO:000152CC | GO:000:microfibril | 5/2181 | 12/19594 | 0.00687 | 0.086266 | 0.07479 | ADAMT | 5 |
| GO:006166CC | GO:006:transferase | 42/2181 | 259/19594 | 0.00801 | 0.098144 | 0.08509 | ACVR1C | 42 |
| GO:000590CC | GO:000:caveola | 17/2181 | 82/19594 | 0.0081 | 0.098144 | 0.08509 | BMPR2/ | 17 |
| GO:003296CC | GO:003:protein-lip | 10/2181 | 39/19594 | 0.00877 | 0.104547 | 0.09064 | APOA1/ | 10 |
| GO:000587CC | GO:000:spindle | mic17/2181 | 83/19594 | 0.00915 | 0.107253 | 0.09298 | CCDC57 | 17 |
| GO:000577CC | GO:000:peroxisome | 14/2181 | 64/19594 | 0.00964 | 0.109317 | 0.09477 | ABCD2/ | 14 |
| GO:003190CC | GO:003:microbody | 14/2181 | 64/19594 | 0.00964 | 0.109317 | 0.09477 | ABCD2/ | 14 |
| GO:004256CC | GO:004:specific | gr28/2181 | 160/19594 | 0.01023 | 0.114109 | 0.09893 | ADAM8 | 28 |
| GO:000560CC | GO:000:nuclear en | 70/2181 | 479/19594 | 0.01055 | 0.115848 | 0.10044 | AK9/API | 70 |
| GO:003114CC | GO:003:pseudopod | 6/2181 | 18/19594 | 0.01074 | 0.116128 | 0.10068 | ACTN1/ | 6 |
| GO:000210CC | GO:000:podosome | 8/2181 | 29/19594 | 0.01169 | 0.124529 | 0.10796 | ACTR2/ | 8 |
| GO:003120CC | GO:003:extrinsic | cc19/2181 | 99/19594 | 0.01228 | 0.128813 | 0.11168 | CAV2/C | 19 |
| GO:003086CC | GO:003:rough end | 7/2181 | 24/19594 | 0.01314 | 0.135831 | 0.11776 | PI4KB/P | 7 |
| GO:000565CC | GO:000:replication | 13/2181 | 60/19594 | 0.01338 | 0.136357 | 0.11822 | HMCES/ | 13 |
| GO:004257CC | GO:004:DNA | polyn6/2181 | 19/19594 | 0.01424 | 0.143033 | 0.124 | MCM3/I | 6 |
| GO:000012CC | GO:000:histone ac | 17/2181 | 87/19594 | 0.01452 | 0.143817 | 0.12468 | ACTB/A | 17 |
| GO:003435CC | GO:003:plasma lip | 9/2181 | 36/19594 | 0.01494 | 0.143838 | 0.1247 | APOA1/ | 9 |
| GO:199077CC | GO:199:lipoprotein | 9/2181 | 36/19594 | 0.01494 | 0.143838 | 0.1247 | APOA1/ | 9 |
| GO:015005CC | GO:015:distal axon | 42/2181 | 270/19594 | 0.01586 | 0.150695 | 0.13065 | ACTB/A | 42 |
| GO:000587CC | GO:000:kinesin | cor11/2181 | 49/19594 | 0.01699 | 0.159234 | 0.13805 | DISC1/K | 11 |
| GO:003010CC | GO:003:endocytic | v51/2181 | 342/19594 | 0.0184 | 0.17016 | 0.14752 | ABCA1/ | 51 |
| GO:003606CC | GO:003:ciliary | base27/2181 | 161/19594 | 0.01953 | 0.178349 | 0.15462 | BBOF1/I | 27 |
| GO:014050CC | GO:014:endoplasm | r22/2181 | 125/19594 | 0.0198 | 0.178415 | 0.15468 | B2M/EL | 22 |
| GO:199039CC | GO:199:DNA | repair10/2181 | 44/19594 | 0.02054 | 0.181329 | 0.15721 | ATM/BR | 10 |
| GO:003010CC | GO:003:coated | ves44/2181 | 290/19594 | 0.02063 | 0.181329 | 0.15721 | ABCB4/ | 44 |
| GO:003557CC | GO:003:specific | gr17/2181 | 91/19594 | 0.02208 | 0.191672 | 0.16617 | ADAM8 | 17 |
| GO:000577CC | GO:000:vacuolar | m64/2181 | 449/19594 | 0.02278 | 0.19527 | 0.16929 | ABCA5/ | 64 |
| GO:009700CC | GO:009:perinuclear | 6/2181 | 21/19594 | 0.02348 | 0.198888 | 0.17243 | CAPN2/ | 6 |
| GO:009880CC | GO:009:presynaptic | 5/2181 | 16/19594 | 0.02597 | 0.209619 | 0.18173 | BSN/CT | 5 |
| GO:000580CC | GO:000:cis-Golgi | n14/2181 | 72/19594 | 0.02605 | 0.209619 | 0.18173 | AKAP9/ | 14 |
| GO:000211CC | GO:000:semaphori | n4/2181 | 11/19594 | 0.02656 | 0.209619 | 0.18173 | PLXNB2 | 4 |
| GO:001711CC | GO:001:Golgi | trans4/2181 | 11/19594 | 0.02656 | 0.209619 | 0.18173 | COG3/C | 4 |
| GO:003466CC | GO:003:endoplasm | r4/2181 | 11/19594 | 0.02656 | 0.209619 | 0.18173 | HSP90B | 4 |
| GO:004454CC | GO:004:NSL | compl4/2181 | 11/19594 | 0.02656 | 0.209619 | 0.18173 | KANSL1 | 4 |
| GO:000090CC | GO:000:P-body | 17/2181 | 93/19594 | 0.02684 | 0.209619 | 0.18173 | AGO2/A | 17 |
| GO:190291CC | GO:190:protein | kin20/2181 | 115/19594 | 0.02854 | 0.220484 | 0.19115 | ACVR1C | 20 |
| GO:000577CC | GO:000:vacuolar | lu28/2181 | 174/19594 | 0.02899 | 0.221531 | 0.19206 | ACLY/A | 28 |
| GO:000024CC | GO:000:pericentrio | 6/2181 | 22/19594 | 0.02933 | 0.221695 | 0.1922 | CDK5RA | 6 |
| GO:003066MF | GO:003:GTPase | rec90/2137 | 488/18410 | 5.13E-06 | 0.00286 | 0.00266 | ABR/AG | 90 |
| GO:006056MF | GO:006:nucleoside | 90/2137 | 488/18410 | 5.13E-06 | 0.00286 | 0.00266 | ABR/AG | 90 |
| GO:005102MF | GO:005:GTPase | bir60/2137 | 298/18410 | 1.32E-05 | 0.004915 | 0.00458 | ABCA1/ | 60 |

| | | | | | | | |
|-------------|----------------------------|-----------|----------|----------|---------|----------|----|
| GO:003126MF | GO:003:small GTPa54/2137 | 267/18410 | 3.07E-05 | 0.007248 | 0.00675 | ABCA1/ | 54 |
| GO:000505MF | GO:000:GTPase act55/2137 | 274/18410 | 3.25E-05 | 0.007248 | 0.00675 | ABR/AG | 55 |
| GO:000377MF | GO:000:actin bindi79/2137 | 439/18410 | 4.59E-05 | 0.008531 | 0.00794 | ACTN1/ | 79 |
| GO:001670MF | GO:001:2-oxogluta18/2137 | 59/18410 | 8.06E-05 | 0.012849 | 0.01196 | ASPH/E | 18 |
| GO:001983MF | GO:001:growth fac32/2137 | 139/18410 | 0.0001 | 0.014491 | 0.01349 | ACVR1C | 32 |
| GO:000520MF | GO:000:extracellula37/2137 | 172/18410 | 0.00014 | 0.017607 | 0.01639 | AGRN/C | 37 |
| GO:000551MF | GO:000:collagen bi19/2137 | 68/18410 | 0.00019 | 0.020235 | 0.01884 | ADGRG | 19 |
| GO:000517MF | GO:000:integrin bir34/2137 | 156/18410 | 0.0002 | 0.020235 | 0.01884 | ACTN1/ | 34 |
| GO:007188MF | GO:007:14-3-3 prc11/2137 | 30/18410 | 0.00033 | 0.028895 | 0.0269 | DDIT4/F | 11 |
| GO:000552MF | GO:000:profilin bin6/2137 | 10/18410 | 0.00034 | 0.028895 | 0.0269 | ACTG1/ | 6 |
| GO:005101MF | GO:005:actin filame42/2137 | 214/18410 | 0.00043 | 0.032718 | 0.03046 | ACTN1/ | 42 |
| GO:001712MF | GO:001:SH3 doma28/2137 | 125/18410 | 0.00044 | 0.032718 | 0.03046 | ADAM1 | 28 |
| GO:001675MF | GO:001:phosphata51/2137 | 276/18410 | 0.00051 | 0.034928 | 0.03252 | ACP2/BI | 51 |
| GO:000467MF | GO:000:protein ser73/2137 | 430/18410 | 0.00053 | 0.034928 | 0.03252 | ACVR1C | 73 |
| GO:009891MF | GO:009:structural c8/2137 | 19/18410 | 0.00075 | 0.043267 | 0.04028 | ACTB/A | 8 |
| GO:000504MF | GO:000:low-densit7/2137 | 15/18410 | 0.00078 | 0.043267 | 0.04028 | LDLR/LF | 7 |
| GO:004281MF | GO:004:Wnt recept7/2137 | 15/18410 | 0.00078 | 0.043267 | 0.04028 | FZD1/FZ | 7 |
| GO:001662MF | GO:001:oxidoreduc16/2137 | 59/18410 | 0.00085 | 0.0438 | 0.04078 | ACAD11 | 16 |
| GO:004257MF | GO:004:phosphoric63/2137 | 366/18410 | 0.00086 | 0.0438 | 0.04078 | ACP2/BI | 63 |
| GO:003141MF | GO:003:L-ascorbic8/2137 | 20/18410 | 0.00113 | 0.05476 | 0.05098 | EGLN1/I | 8 |
| GO:001592MF | GO:001:mannosida7/2137 | 16/18410 | 0.00124 | 0.057705 | 0.05372 | EDEM1/ | 7 |
| GO:000802MF | GO:000:protein C-35/2137 | 179/18410 | 0.00133 | 0.059405 | 0.0553 | AGO2/A | 35 |
| GO:010631MF | GO:010:protein ser60/2137 | 360/18410 | 0.00246 | 0.105724 | 0.09842 | AKT3/AI | 60 |
| GO:003022MF | GO:003:lipoprotein7/2137 | 18/18410 | 0.0028 | 0.113297 | 0.10547 | LDLR/LF | 7 |
| GO:001920MF | GO:001:kinase regul42/2137 | 235/18410 | 0.00289 | 0.113297 | 0.10547 | AFAP1L | 42 |
| GO:000178MF | GO:000:phosphatic15/2137 | 60/18410 | 0.00294 | 0.113297 | 0.10547 | ANXA6/ | 15 |
| GO:001700MF | GO:001:activin rece5/2137 | 10/18410 | 0.00319 | 0.114987 | 0.10705 | ACVR1C | 5 |
| GO:003537MF | GO:003:chondroitir5/2137 | 10/18410 | 0.00319 | 0.114987 | 0.10705 | AGRN/A | 5 |
| GO:001670MF | GO:001:oxidoreduc33/2137 | 177/18410 | 0.00395 | 0.137922 | 0.1284 | ASPH/C | 33 |
| GO:005121MF | GO:005:dioxygena20/2137 | 93/18410 | 0.00447 | 0.14686 | 0.13672 | ASPH/E | 20 |
| GO:007234MF | GO:007:modified a20/2137 | 93/18410 | 0.00447 | 0.14686 | 0.13672 | ANXA6/ | 20 |
| GO:000455MF | GO:000:alpha-mar6/2137 | 15/18410 | 0.00479 | 0.147041 | 0.13689 | EDEM1/ | 6 |
| GO:000372MF | GO:000:double-str17/2137 | 75/18410 | 0.00482 | 0.147041 | 0.13689 | ACTN1/ | 17 |
| GO:000545MF | GO:000:steroid bin21/2137 | 100/18410 | 0.00488 | 0.147041 | 0.13689 | ABCA1/ | 21 |
| GO:000471MF | GO:000:protein ser70/2137 | 446/18410 | 0.00526 | 0.15451 | 0.14384 | AKT3/AI | 70 |
| GO:199040MF | GO:199:NAD+-pro7/2137 | 20/18410 | 0.00554 | 0.158412 | 0.14748 | PARP1/I | 7 |
| GO:004802MF | GO:004:monosaccl16/2137 | 71/18410 | 0.00651 | 0.181716 | 0.16917 | ALDOA/ | 16 |
| GO:004525MF | GO:004:cadherin b54/2137 | 333/18410 | 0.0069 | 0.187778 | 0.17481 | ADD1/A | 54 |
| GO:003295MF | GO:003:sterol bind14/2137 | 60/18410 | 0.00769 | 0.19327 | 0.17993 | ABCA1/ | 14 |
| GO:000555MF | GO:000:glycosamir40/2137 | 234/18410 | 0.00777 | 0.19327 | 0.17993 | ADAMT | 40 |
| GO:005066MF | GO:005:flavin aden18/2137 | 85/18410 | 0.008 | 0.19327 | 0.17993 | ACAD11 | 18 |
| GO:000395MF | GO:000:acyl-CoA c5/2137 | 12/18410 | 0.00822 | 0.19327 | 0.17993 | ACAD11 | 5 |
| GO:001715MF | GO:001:semaphori5/2137 | 12/18410 | 0.00822 | 0.19327 | 0.17993 | MET/PL | 5 |
| GO:003154MF | GO:003:peptidyl-p5/2137 | 12/18410 | 0.00822 | 0.19327 | 0.17993 | EGLN1/I | 5 |
| GO:003802MF | GO:003:cargo rece17/2137 | 79/18410 | 0.00831 | 0.19327 | 0.17993 | ABCA1/ | 17 |
| GO:001990MF | GO:001:phosphata34/2137 | 193/18410 | 0.00853 | 0.194338 | 0.18092 | AKAP11 | 34 |
| GO:014035MF | GO:014:ABC-type i12/2137 | 49/18410 | 0.00884 | 0.197216 | 0.1836 | ABCA1/ | 12 |
| GO:000500MF | GO:000:transmemk6/2137 | 17/18410 | 0.00967 | 0.202669 | 0.18868 | PTPN6/I | 6 |
| GO:001915MF | GO:001:transmemk6/2137 | 17/18410 | 0.00967 | 0.202669 | 0.18868 | PTPN6/I | 6 |
| GO:005274MF | GO:005:inositol ph6/2137 | 17/18410 | 0.00967 | 0.202669 | 0.18868 | INPP1/II | 6 |
| GO:001921MF | GO:001:kinase inhil16/2137 | 74/18410 | 0.00981 | 0.202669 | 0.18868 | CAMK2I | 16 |
| GO:000371MF | GO:000:transcriptic75/2137 | 497/18410 | 0.01029 | 0.204162 | 0.19007 | ACTN1/ | 75 |
| GO:190168MF | GO:190:sulfur com44/2137 | 267/18410 | 0.01042 | 0.204162 | 0.19007 | ACADVI | 44 |
| GO:001548MF | GO:001:cholesterol12/2137 | 50/18410 | 0.01043 | 0.204162 | 0.19007 | ABCA1/ | 12 |