**RESULT ANALYSIS OF SAPDSB BASED GENE PRIOROTIZATION IN DIABETES-ALZHEIMER’S-CARCINOMA**

Table 1: The resultant set of top 67 SAPDSB genes in disease pair Diabetes-Carcinoma based on SAPDSB and specificity scores.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SI No** | **Uiprot id** | **Gene Name** | **SAPDSB Score** | **Specificity Score 1**  **(SC1)** | **Specificity Score 2**  **(SC2)** |
| 1 | P07900 | HSP90AA1 | 0.06168 | 1 | 1 |
| 2 | P06400 | RB1 | 0.018639 | 0.98 | 1 |
| 3 | Q9UER7 | DAXX | 0.028823 | 1 | 1 |
| 4 | Q92793 | CREBBP | 0.050392 | 1 | 1 |
| 5 | P04637 | TP53 | 0.116443 | 1 | 1 |
| 6 | P24941 | CDK2 | 0.012682 | 0.98 | 0.99 |
| 7 | Q13547 | HDAC1 | 0.051544 | 0.99 | 1 |
| 8 | P05412 | JUN | 0.029687 | 1 | 1 |
| 9 | Q9UNE7 | STUB1 | 0.011961 | 0.99 | 1 |
| 10 | Q04206 | RELA | 0.016381 | 0.97 | 0.98 |
| 11 | P31749 | AKT1 | 0.045348 | 1 | 1 |
| 12 | P12931 | SRC | 0.044387 | 1 | 1 |
| 13 | P00533 | EGFR | 0.078686 | 1 | 1 |
| 14 | P05067 | APP | 0.018014 | 1 | 1 |
| 15 | P45983 | MAPK8 | 0.01566 | 1 | 1 |
| 16 | P49841 | GSK3B | 0.013643 | 1 | 1 |
| 17 | P06493 | CDK1 | 0.013499 | 1 | 1 |
| 18 | P27986 | PIK3R1 | 0.054523 | 1 | 1 |
| 19 | P06239 | LCK | 0.011865 | 1 | 1 |
| 20 | P38398 | BRCA1 | 0.029831 | 1 | 1 |
| 21 | P00519 | ABL1 | 0.021281 | 1 | 1 |
| 22 | Q15788 | NCOA1 | 0.0147 | 1 | 1 |
| 23 | P03372 | ESR1 | 0.042033 | 1 | 1 |
| 24 | P04049 | RAF1 | 0.024451 | 1 | 1 |
| 25 | Q16543 | CDC37 | 0.02522 | 0.97 | 0.94 |
| 26 | Q00987 | MDM2 | 0.060383 | 1 | 1 |
| 27 | P38936 | CDKN1A | 0.022001 | 1 | 1 |
| 28 | P06241 | FYN | 0.015468 | 1 | 1 |
| 29 | P12004 | PCNA | 0.021377 | 1 | 1 |
| 30 | P19793 | RXRA | 0.012057 | 1 | 1 |
| 31 | Q09472 | EP300 | 0.093289 | 1 | 1 |
| 32 | Q06124 | EP300 | 0.016669 | 1 | 1 |
| 33 | P56524 | HDAC4 | 0.014219 | 1 | 0.98 |
| 34 | P62993 | GRB2 | 0.077148 | 1 | 1 |
| 35 | P51532 | SMARCA4 | 0.011913 | 1 | 1 |
| 36 | Q92831 | KAT2B | 0.013739 | 1 | 1 |
| 37 | Q03135 | CAV1 | 0.01835 | 1 | 1 |
| 38 | P10275 | AR | 0.040015 | 1 | 1 |
| 39 | P08047 | SP1 | 0.027093 | 1 | 1 |
| 40 | P63104 | YWHAZ | 0.024932 | 0.99 | 1 |
| 41 | Q9Y6K9 | IKBKG | 0.013883 | 0.98 | 0.99 |
| 42 | P28482 | MAPK1 | 0.017582 | 0.99 | 0.99 |
| 43 | P52292 | KPNA2 | 0.014459 | 1 | 1 |
| 44 | P62258 | YWHAE | 0.012202 | 1 | 1 |
| 45 | Q15796 | SMAD2 | 0.011961 | 1 | 1 |
| 46 | P84022 | SMAD3 | 0.034827 | 1 | 1 |
| 47 | P27348 | YWHAQ | 0.020848 | 1 | 1 |
| 48 | P11142 | HSPA8 | 0.011289 | 0.99 | 1 |
| 49 | P35222 | CTNNB1 | 0.038814 | 1 | 1 |
| 50 | P63279 | UBE2I | 0.023058 | 0.98 | 1 |
| 51 | P40763 | STAT3 | 0.025796 | 1 | 1 |
| 52 | O15379 | HDAC3 | 0.011385 | 0.98 | 1 |
| 53 | P22681 | CBL | 0.034251 | 1 | 1 |
| 54 | P11021 | HSPA5 | 0.015084 | 1 | 1 |
| 55 | P01106 | MYC | 0.025124 | 0.94 | 1 |
| 56 | Q92769 | HDAC2 | 0.024691 | 1 | 1 |
| 57 | Q96EB6 | SIRT1 | 0.021233 | 1 | 1 |
| 58 | P09874 | PARP1 | 0.013066 | 1 | 1 |
| 59 | P08238 | HSP90AB1 | 0.018398 | 1 | 1 |
| 60 | P06748 | NPM1 | 0.014603 | 0.99 | 1 |
| 61 | P12956 | XRCC6 | 0.011865 | 1 | 1 |
| 62 | O00459 | PIK3R2 | 0.014219 | 1 | 1 |
| 63 | P45984 | MAPK9 | 0.011721 | 1 | 0.98 |
| 64 | P34932 | HSPA4 | 0.011673 | 1 | 1 |
| 65 | O75928 | PIAS2 | 0.012634 | 0.91 | 0.97 |
| 66 | Q05516 | ZBTB16 | 0.017582 | 1 | 0.99 |
| 67 | Q92569 | PIK3R3 | 0.019984 | 1 | 1 |

Table 1. (Continued)

Table 2: Set of top 149 candidate genes obtained for Carcinoma- Alzheimer’s analysis based on SAPDSB and specificity scores.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SI No** | **Uiprot id** | **Gene Name** | **SAPDSB Score** | **Specificity Score 1**  **(SC1)** | **Specificity Score 2**  **(SC2)** |
| 1 | P07900 | HSP90AA1 | 0.049717 | 1 | 1 |
| 2 | P10415 | BCL2 | 0.008813 | 1 | 1 |
| 3 | P06400 | YWHAZ | 0.023122 | 1 | 1 |
| 4 | Q9UER7 | DAXX | 0.021981 | 1 | 1 |
| 5 | Q92793 | CREBBP | 0.031935 | 1 | 1 |
| 6 | P04637 | TP53 | 0.122401 | 1 | 1 |
| 7 | P24941 | CDK2 | 0.012054 | 0.93 | 0.99 |
| 8 | Q13547 | HDAC1 | 0.032998 | 0.78 | 0.97 |
| 9 | Q9UMX0 | UBQLN1 | 0.015397 | 0.19 | 0.53 |
| 10 | P0CG48 | UBC | 0.013583 | 0.41 | 0.61 |
| 11 | P29353 | SHC1 | 0.024314 | 1 | 1 |
| 12 | P31946 | YWHAB | 0.016175 | 0.81 | 0.98 |
| 13 | P05412 | JUN | 0.029784 | 1 | 1 |
| 14 | Q9UNE7 | STUB1 | 0.017575 | 1 | 1 |
| 15 | Q04206 | RELA | 0.014438 | 0.9 | 0.95 |
| 16 | Q04864 | REL | 0.019908 | 0 | 0.06 |
| 17 | P19838 | NFKB1 | 0.010395 | 1 | 1 |
| 18 | P31749 | AKT1 | 0.048992 | 1 | 1 |
| 19 | P62158 | CALM1 | 0.011068 | 1 | 1 |
| 20 | P19320 | VCAM1 | 0.016979 | 0.43 | 0.87 |
| 21 | P12931 | SRC | 0.051687 | 1 | 1 |
| 22 | P10636 | MAPT | 0.013531 | 1 | 1 |
| 23 | P00533 | EGFR | 0.109596 | 1 | 1 |
| 24 | P05067 | APP | 0.039012 | 1 | 1 |
| 25 | P45983 | MAPK8 | 0.019597 | 1 | 1 |
| 26 | P49841 | GSK3B | 0.022526 | 1 | 1 |
| 27 | P06493 | CDK1 | 0.011846 | 1 | 1 |
| 28 | P27986 | PIK3R1 | 0.03489 | 1 | 1 |
| 29 | P46940 | IQGAP1 | 0.016382 | 1 | 1 |
| 30 | P06239 | LCK | 0.010058 | 1 | 1 |
| 31 | P38398 | BRCA1 | 0.036757 | 1 | 1 |
| 32 | P68400 | CSNK2A1 | 0.013324 | 0.83 | 0.75 |
| 33 | P00519 | ABL1 | 0.02237 | 1 | 1 |
| 34 | Q15788 | NCOA1 | 0.008813 | 1 | 1 |
| 35 | P03372 | ESR1 | 0.044429 | 1 | 1 |
| 36 | Q13625 | TP53BP2 | 0.012961 | 0.69 | 0.87 |
| 37 | P19174 | PLCG1 | 0.01195 | 1 | 1 |
| 38 | O43765 | SGTA | 0.008813 | 0.06 | 0.85 |
| 39 | P04049 | RAF1 | 0.024574 | 1 | 1 |
| 40 | P04626 | ERBB2 | 0.013764 | 1 | 1 |
| 41  Table 2. (Continued) | Q16543 | CDC37 | 0.026025 | 0.98 | 0.96 |
| 42 | P46934 | NEDD4 | 0.009228 | 1 | 1 |
| 43 | P15884 | TCF4 | 0.013142 | 0.31 | 0.71 |
| 44 | Q00987 | MDM2 | 0.042796 | 1 | 1 |
| 45 | P62136 | PPP1CA | 0.009824 | 0.97 | 1 |
| 46 | P38936 | CDKN1A | 0.020556 | 1 | 0.99 |
| 47 | P63165 | SUMO1 | 0.018275 | 0.84 | 0.81 |
| 48 | P06241 | FYN | 0.025481 | 1 | 1 |
| 49 | P12004 | PCNA | 0.022267 | 1 | 1 |
| 50 | Q9Y4K3 | TRAF6 | 0.015294 | 0.87 | 0.89 |
| 51 | Q09472 | EP300 | 0.061926 | 1 | 1 |
| 52 | P14373 | TRIM27 | 0.012261 | 0 | 0 |
| 53 | Q06124 | PTPN11 | 0.017367 | 1 | 1 |
| 54 | P08670 | VIM | 0.008839 | 0.81 | 0.98 |
| 55 | Q12933 | TRAF2 | 0.044844 | 0.1 | 0.4 |
| 56 | P56524 | HDAC4 | 0.009358 | 0.84 | 0.82 |
| 57 | P29590 | PML | 0.013687 | 1 | 1 |
| 58 | P62993 | GRB2 | 0.074265 | 1 | 1 |
| 59 | P51532 | SMARCA4 | 0.011043 | 1 | 1 |
| 60 | Q92831 | KAT2B | 0.010213 | 1 | 1 |
| 61 | Q03135 | CAV1 | 0.015423 | 1 | 1 |
| 62 | P61981 | YWHAG | 0.020634 | 0.79 | 0.98 |
| 63 | P10275 | AR | 0.033283 | 1 | 1 |
| 64 | P08047 | SP1 | 0.021826 | 1 | 1 |
| 65 | P63104 | YWHAZ | 0.027995 | 1 | 1 |
| 66 | Q9Y6K9 | IKBKG | 0.019234 | 1 | 1 |
| 67 | Q92993 | KAT5 | 0.028358 | 0.99 | 0.96 |
| 68 | P28482 | MAPK1 | 0.02237 | 1 | 1 |
| 69 | P52292 | KPNA2 | 0.01125 | 1 | 1 |
| 70 | P62258 | YWHAE | 0.00915 | 0.99 | 1 |
| 71 | P84022 | SMAD3 | 0.027477 | 1 | 1 |
| 72 | O60260 | PRKN | 0.012624 | 1 | 1 |
| 73 | P42574 | CASP3 | 0.018923 | 1 | 1 |
| 74 | P27348 | YWHAQ | 0.012028 | 0.99 | 1 |
| 75 | P11142 | HSPA8 | 0.013946 | 1 | 1 |
| 76 | P35222 | CTNNB1 | 0.041397 | 1 | 1 |
| 77 | P63279 | UBE2I | 0.025922 | 1 | 1 |
| 78 | P40763 | STAT3 | 0.025351 | 1 | 1 |
| 79 | Q9NRD5 | PICK1 | 0.020556 | 0 | 0 |
| 80 | P22681 | CBL | 0.028695 | 1 | 1 |
| 81 | P50222 | MEOX2 | 0.062523 | 0 | 0 |
| 82 | P25786 | PSMA1 | 0.014335 | 0.23 | 0.41 |
| 83 | P40692 | MLH1 | 0.008969 | 1 | 1 |
| 84 | P11021 | HSPA5 | 0.013375 | 1 | 1 |
| 85  Table 2. (Continued) | Q92905 | COPS5 | 0.009021 | 0.94 | 1 |
| 86 | P01106 | MYC | 0.025947 | 0.99 | 0.99 |
| 87 | Q92769 | HDAC2 | 0.010109 | 0.67 | 0.99 |
| 88 | Q13526 | PIN1 | 0.019182 | 0.63 | 0.5 |
| 89 | O14964 | HGS | 0.023278 | 0.22 | 0.47 |
| 90 | P54274 | TERF1 | 0.010446 | 0.93 | 1 |
| 91 | Q96EB6 | SIRT1 | 0.010602 | 0.99 | 1 |
| 92 | P09874 | PARP1 | 0.008865 | 0.98 | 1 |
| 93 | P55072 | VCP | 0.015631 | 1 | 0.99 |
| 94 | P08238 | HSP90AB1 | 0.021489 | 1 | 1 |
| 95 | P21333 | FLNA | 0.010835 | 1 | 1 |
| 96 | P06748 | NPM1 | 0.01112 | 0.98 | 1 |
| 97 | P19438 | TNFRSF1A | 0.009228 | 1 | 1 |
| 98 | Q13077 | TRAF1 | 0.017886 | 0.07 | 0.45 |
| 99 | P12956 | XRCC6 | 0.014879 | 1 | 1 |
| 100 | Q08379 | GOLGA2 | 0.01462 | 0.01 | 0.1 |
| 101 | P61968 | LMO4 | 0.008813 | 0.43 | 0.47 |
| 102 | Q8TBB1 | LNX1 | 0.01773 | 0 | 0 |
| 103 | Q15654 | TRIP6 | 0.010369 | 0.02 | 0.31 |
| 104 | Q93062 | RBPMS | 0.010161 | 0.01 | 0.08 |
| 105 | Q99750 | MDFI | 0.027192 | 0 | 0.17 |
| 106 | Q6UY14 | ADAMTSL4 | 0.011561 | 0.01 | 0.22 |
| 107 | O15169 | AXIN1 | 0.010654 | 1 | 0.84 |
| 108 | Q01844 | EWSR1 | 0.011276 | 0.52 | 0.7 |
| 109 | Q9UHD9 | UBQLN2 | 0.014594 | 0.01 | 0.29 |
| 110 | Q08AM6 | VAC14 | 0.009202 | 0.45 | 0.82 |
| 111 | Q92597 | NDRG1 | 0.00998 | 1 | 1 |
| 112 | O00560 | SDCBP | 0.008969 | 0 | 0 |
| 113 | Q6RW13 | AGTRAP | 0.009047 | 0.4 | 0.82 |
| 114 | Q96HA8 | NTAQ1 | 0.018508 | 0.01 | 0 |
| 115 | P45984 | MAPK9 | 0.009928 | 0.99 | 0.97 |
| 116 | P34932 | HSPA4 | 0.010809 | 1 | 1 |
| 117 | Q8N9N5 | BANP | 0.009746 | 0.1 | 0.14 |
| 118 | Q5JR59 | MTUS2 | 0.013687 | 0 | 0.01 |
| 119 | P26371 | KRTAP5-9 | 0.011872 | 0.02 | 0.43 |
| 120 | P25791 | LMO2 | 0.015009 | 0.7 | 0.49 |
| 121 | Q9UBB9 | TFIP11 | 0.010835 | 0.01 | 0.15 |
| 122 | Q9UKT9 | IKZF3 | 0.014386 | 0.2 | 0.69 |
| 123 | O75928 | PIAS2 | 0.009746 | 0.8 | 0.85 |
| 124 | Q96GM5 | SMARCD1 | 0.011561 | 0.83 | 0.75 |
| 125 | Q13064 | MKRN3 | 0.009254 | 0.32 | 0.68 |
| 126 | P49639 | HOXA1 | 0.011587 | 0 | 0.07 |
| 127 | Q05516 | ZBTB16 | 0.01239 | 1 | 0.97 |
| 128 | Q92569 | PIK3R3 | 0.013142 | 1 | 1 |
| 129 | P60409 | KRTAP10-7 | 0.014905 | 0 | 0.09 |
| 130 | Q08117 | TLE5 | 0.022318 | 0.02 | 0.05 |
| 131 | P60411 | KRTAP10-9 | 0.011017 | 0.01 | 0.18 |
| 132 | Q15323 | KRT31 | 0.035175 | 0 | 0.41 |
| 133 | Q9H0I2 | ENKD1 | 0.016849 | 0.22 | 0.36 |
| 134 | Q6A162 | KRT40 | 0.026855 | 0 | 0.11 |
| 135 | Q7Z3S9 | NOTCH2NLA | 0.025844 | 0 | 0.39 |
| 136 | A4D127 | MEOX2 | 0.01265 | 0.13 | 0.53 |
| 137 | P60410 | KRTAP10-8 | 0.024418 | 0 | 0.07 |
| 138 | Q9HC98 | NEK6 | 0.009176 | 0.84 | 0.59 |
| 139 | Q49A26 | GLYR1 | 0.012183 | 0 | 0.06 |
| 140 | A0A0C4DGS5 | GOLGA2 | 0.034087 | 0 | 0.08 |
| 141 | B8A4K4 | CYSRT1 | 0.042563 | 0 | 0.04 |
| 142 | U6CXV3 | E9PH57 | 0.010032 | 0.06 | 0.26 |
| 143 | F5H3M2 | KIFC3 | 0.011354 | 0.03 | 0.12 |
| 144 | O75031 | HSF2BP | 0.012494 | 0 | 0.03 |
| 145 | O75360 | PROP1 | 0.024263 | 0 | 0.03 |
| 146 | O76011 | KRT34 | 0.010161 | 0 | 0.05 |
| 147 | P60369 | KRTAP10-3 | 0.023926 | 0 | 0.01 |
| 148 | Q8IUG1 | KRTAP1-3 | 0.00998 | 0 | 0.35 |
| 149 | Q8N5R6 | CCDC33 | 0.011898 | 0.13 | 0.38 |

Table 2. (Continued)

Table 3: Top 499 comorbid genes in disease pair Diabetes- Alzheimer’s based on SAPDSB and specificity scores.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SI No** | **Uiprot id** | **Gene Name** | **SAPDSB Score** | **Specificity Score 1**  **(SC1)** | **Specificity Score 2**  **(SC2)** |
| 1 | P04637 | TP53 | 0.097621 | 1 | 1 |
| 2 | P00533 | EGFR | 0.089919 | 1 | 1 |
| 3 | P62993 | GRB2 | 0.077993 | 1 | 1 |
| 4 | Q09472 | EP300 | 0.055927 | 1 | 1 |
| 5 | P07900 | HSP90AA1 | 0.053035 | 1 | 1 |
| 6 | P27986 | PIK3R1 | 0.048453 | 1 | 1 |
| 7 | P05067 | APP | 0.044813 | 1 | 1 |
| 8 | P31749 | AKT1 | 0.035682 | 1 | 1 |
| 9 | Q92793 | CREBBP | 0.035357 | 1 | 1 |
| 10 | Q16543 | CDC37 | 0.033699 | 1 | 0.99 |
| 11 | P22681 | CBL | 0.033569 | 1 | 1 |
| 12 | P12931 | SRC | 0.031977 | 1 | 1 |
| 13 | Q00987 | MDM2 | 0.03032 | 1 | 1 |
| 14 | P05412 | JUN | 0.030287 | 1 | 1 |
| 15 | P03372 | ESR1 | 0.028337 | 0.96 | 0.99 |
| 16  Table 3. (Continued) | O43741 | PRKAB2 | 0.02785 | 1 | 1 |
| 17 | P63104 | YWHAZ | 0.027493 | 1 | 1 |
| 18 | P84022 | SMAD3 | 0.026875 | 1 | 1 |
| 19 | P35222 | CTNNB1 | 0.0259 | 1 | 1 |
| 20 | P10275 | AR | 0.025673 | 0.99 | 1 |
| 21 | P06241 | FYN | 0.023333 | 1 | 1 |
| 22 | Q9UER7 | DAXX | 0.020668 | 1 | 1 |
| 23 | Q04206 | RELA | 0.020473 | 1 | 1 |
| 24 | Q92569 | PIK3R3 | 0.019921 | 1 | 1 |
| 25 | P40763 | STAT3 | 0.019303 | 1 | 0.99 |
| 26 | Q96EB6 | SIRT1 | 0.018393 | 1 | 1 |
| 27 | P68400 | CSNK2A1 | 0.018036 | 0.97 | 0.9 |
| 28 | P28482 | MAPK1 | 0.017938 | 0.99 | 1 |
| 29 | P38398 | BRCA1 | 0.017646 | 0.93 | 0.97 |
| 30 | P49841 | GSK3B | 0.017483 | 1 | 1 |
| 31 | P38936 | CDKN1A | 0.017061 | 1 | 0.97 |
| 32 | Q06124 | PTPN11 | 0.016703 | 1 | 1 |
| 33 | Q03135 | CAV1 | 0.016541 | 1 | 1 |
| 34 | P08047 | SP1 | 0.015956 | 1 | 1 |
| 35 | P00519 | ABL1 | 0.015761 | 1 | 1 |
| 36 | P27348 | YWHAQ | 0.015176 | 1 | 1 |
| 37 | P45984 | MAPK9 | 0.014331 | 1 | 1 |
| 38 | P62258 | YWHAE | 0.014266 | 1 | 1 |
| 39 | P29353 | SHC1 | 0.014006 | 1 | 1 |
| 40 | P11021 | HSPA5 | 0.014006 | 1 | 1 |
| 41 | P34932 | HSPA4 | 0.013811 | 1 | 1 |
| 42 | Q05516 | ZBTB16 | 0.013291 | 1 | 0.92 |
| 43 | Q13131 | PRKAA1 | 0.013129 | 1 | 1 |
| 44 | Q9UNE7 | STUB1 | 0.013031 | 0.99 | 1 |
| 45 | P55072 | VCP | 0.012934 | 0.97 | 0.98 |
| 46 | Q92769 | HDAC2 | 0.012901 | 0.91 | 0.99 |
| 47 | O75928 | PIAS2 | 0.012414 | 0.91 | 0.93 |
| 48 | Q96EQ0 | SGTB | 0.012414 | 0.91 | 1 |
| 49 | P11142 | HSPA8 | 0.012381 | 1 | 1 |
| 50 | P45983 | P45983 | 0.012316 | 1 | 1 |
| 51 | P12004 | PCNA | 0.012186 | 0.97 | 1 |
| 52 | P08238 | HSP90AB1 | 0.012186 | 1 | 1 |
| 53 | P06239 | LCK | 0.011959 | 1 | 1 |
| 54 | Q15788 | NCOA1 | 0.011634 | 1 | 1 |
| 55 | P19793 | RXRA | 0.011536 | 1 | 1 |
| 56 | P21333 | FLNA | 0.011536 | 0.99 | 1 |
| 57 | Q9Y6K9 | IKBKG | 0.011276 | 0.93 | 0.95 |
| 58 | P10636 | MAPT | 0.011179 | 1 | 1 |
| 59 | Q05655 | PRKCD | 0.011082 | 1 | 1 |
| 60  Table 3. (Continued) | Q07817 | BCL2L1 | 0.010984 | 1 | 1 |
| 61 | P08670 | VIM | 0.010854 | 0.93 | 1 |
| 62 | Q13363 | CTBP1 | 0.010562 | 1 | 1 |
| 63 | Q13490 | BIRC2 | 0.010464 | 1 | 1 |
| 64 | P48023 | FASLG | 0.010464 | 1 | 1 |
| 65 | P04049 | RAF1 | 0.010367 | 1 | 0.99 |
| 66 | P02751 | FN1 | 0.010302 | 1 | 1 |
| 67 | P62158 | CALM2 | 0.010139 | 1 | 1 |
| 68 | Q15796 | SMAD2 | 0.009749 | 1 | 1 |
| 69 | Q96J02 | ITCH | 0.009717 | 1 | 1 |
| 70 | Q92831 | KAT2B | 0.009717 | 1 | 1 |
| 71 | P04792 | HSPB1 | 0.009684 | 1 | 1 |
| 72 | P18031 | PTPN1 | 0.009554 | 1 | 1 |
| 73 | P35568 | IRS1 | 0.009294 | 1 | 1 |
| 74 | P54253 | ATXN1 | 0.009229 | 0.91 | 0.94 |
| 75 | O15379 | HDAC3 | 0.008969 | 1 | 1 |
| 76 | O00459 | PIK3R2 | 0.008839 | 1 | 1 |
| 77 | P52292 | KPNA2 | 0.008352 | 1 | 0.99 |
| 78 | O14920 | IKBKB | 0.008319 | 1 | 1 |
| 79 | P42858 | HTT | 0.008189 | 1 | 1 |
| 80 | P04626 | ERBB2 | 0.008157 | 0.99 | 1 |
| 81 | P11274 | BCR | 0.008059 | 1 | 1 |
| 82 | P19174 | PLCG1 | 0.007962 | 1 | 1 |
| 83 | O60260 | PRKN | 0.007734 | 0.96 | 0.99 |
| 84 | Q9Y618 | NCOR2 | 0.007734 | 0.99 | 1 |
| 85 | P60709 | ACTB | 0.007507 | 1 | 0.99 |
| 86 | P04150 | NR3C1 | 0.007442 | 0.99 | 1 |
| 87 | P12956 | XRCC6 | 0.007377 | 1 | 1 |
| 88 | P09874 | PARP1 | 0.007247 | 0.97 | 0.99 |
| 89 | Q9BYM8 | RBCK1 | 0.007247 | 1 | 1 |
| 90 | P51532 | SMARCA4 | 0.007149 | 0.97 | 1 |
| 91 | P08069 | IGF1R | 0.007052 | 1 | 1 |
| 92 | P06493 | CDK1 | 0.006987 | 0.99 | 1 |
| 93 | P04629 | NTRK1 | 0.006922 | 1 | 1 |
| 94 | P49023 | PXN | 0.006889 | 1 | 1 |
| 95 | P42224 | STAT1 | 0.006889 | 1 | 1 |
| 96 | O75376 | NCOR1 | 0.006857 | 0.96 | 1 |
| 97 | P46934 | NEDD4 | 0.006857 | 0.99 | 1 |
| 98 | P49815 | TSC2 | 0.006694 | 1 | 1 |
| 99 | P29590 | PML | 0.006597 | 0.94 | 0.95 |
| 100 | Q13501 | SQSTM1 | 0.006564 | 0.98 | 1 |
| 101 | P61086 | UBE2K | 0.006532 | 1 | 0.92 |
| 102 | P36897 | TGFBR1 | 0.006467 | 1 | 1 |
| 103 | P42345 | MTOR | 0.006272 | 0.99 | 1 |
| 104  Table 3. (Continued) | P02647 | APOA1 | 0.006272 | 1 | 1 |
| 105 | P40337 | VHL | 0.006239 | 0.94 | 0.9 |
| 106 | P19838 | NFKB1 | 0.006207 | 0.97 | 0.99 |
| 107 | P01137 | TGFB1 | 0.006174 | 1 | 1 |
| 108 | O60674 | JAK2 | 0.006109 | 1 | 1 |
| 109 | P10415 | BCL2 | 0.006077 | 0.99 | 1 |
| 110 | P19438 | TNFRSF1A | 0.006044 | 1 | 1 |
| 111 | Q9Y4H2 | IRS2 | 0.006012 | 1 | 1 |
| 112 | P49768 | PSEN1 | 0.005947 | 1 | 1 |
| 113 | Q9Y6Q9 | NCOA3 | 0.005589 | 1 | 1 |
| 114 | O96006 | ZBED1 | 0.005557 | 0.94 | 0.92 |
| 115 | P0DMV8 | HSPA1A | 0.005492 | 0.99 | 1 |
| 116 | Q15831 | STK11 | 0.005427 | 1 | 1 |
| 117 | P54619 | PRKAG1 | 0.005395 | 1 | 1 |
| 118 | Q96JM7 | L3MBTL3 | 0.005395 | 0.95 | 0.94 |
| 119 | P09619 | PDGFRB | 0.005362 | 0.97 | 0.98 |
| 120 | O15111 | CHUK | 0.00533 | 0.96 | 1 |
| 121 | Q92597 | NDRG1 | 0.005135 | 0.9 | 0.99 |
| 122 | Q15648 | MED1 | 0.00507 | 0.98 | 1 |
| 123 | P01100 | FOS | 0.004972 | 0.92 | 0.95 |
| 124 | Q13546 | RIPK1 | 0.00494 | 0.97 | 1 |
| 125 | P56945 | BCAR1 | 0.00494 | 0.98 | 0.99 |
| 126 | P06213 | INSR | 0.004875 | 1 | 1 |
| 127 | P13569 | CFTR | 0.004842 | 1 | 1 |
| 128 | P10276 | RARA | 0.004712 | 0.91 | 0.96 |
| 129 | P07948 | LYN | 0.004647 | 0.98 | 1 |
| 130 | Q14247 | CTTN | 0.004615 | 1 | 1 |
| 131 | P46940 | IQGAP1 | 0.00455 | 0.97 | 0.9 |
| 132 | P42229 | STAT5A | 0.00455 | 1 | 1 |
| 133 | P42574 | CASP3 | 0.004517 | 0.97 | 0.99 |
| 134 | P49757 | NUMB | 0.00442 | 1 | 1 |
| 135 | P32121 | ARRB2 | 0.004387 | 0.96 | 0.98 |
| 136 | Q05086 | UBE3A | 0.004322 | 0.93 | 0.94 |
| 137 | P01023 | A2M | 0.004322 | 1 | 1 |
| 138 | P27824 | CANX | 0.004322 | 1 | 1 |
| 139 | P02649 | APOE | 0.004257 | 1 | 1 |
| 140 | Q99608 | NDN | 0.004257 | 1 | 1 |
| 141 | Q12778 | FOXO1 | 0.004225 | 1 | 1 |
| 142 | P15941 | MUC1 | 0.004192 | 1 | 1 |
| 143 | Q05513 | MUC1 | 0.00416 | 1 | 1 |
| 144 | O43561 | PRKCZ | 0.00416 | 0.97 | 0.92 |
| 145 | P02766 | LAT | 0.004095 | 1 | 1 |
| 146 | P37173 | TGFBR2 | 0.004062 | 1 | 1 |
| 147 | Q15466 | NR0B2 | 0.003997 | 1 | 1 |
| 148  Table 3 (Continued) | P43405 | SYK | 0.003965 | 0.98 | 1 |
| 149 | P37231 | PPARG | 0.003965 | 0.96 | 1 |
| 150 | P04271 | S100B | 0.003932 | 0.99 | 0.99 |
| 151 | P0CG47 | UBB | 0.003867 | 0.97 | 0.91 |
| 152 | Q13191 | CBLB | 0.003835 | 0.99 | 1 |
| 153 | Q14790 | CASP8 | 0.003835 | 0.98 | 1 |
| 154 | P24385 | CCND1 | 0.003835 | 0.97 | 0.95 |
| 155 | P61457 | PCBD1 | 0.003835 | 1 | 0.99 |
| 156 | Q16204 | CCDC6 | 0.00377 | 0.99 | 0.96 |
| 157 | P08253 | MMP2 | 0.003737 | 1 | 1 |
| 158 | Q07954 | LRP1 | 0.003737 | 1 | 1 |
| 159 | P10809 | HSPD1 | 0.003607 | 0.99 | 0.97 |
| 160 | P51572 | BCAP31 | 0.003575 | 1 | 1 |
| 161 | P27797 | CALR | 0.003477 | 1 | 1 |
| 162 | Q9UBN7 | HDAC6 | 0.003477 | 0.97 | 0.99 |
| 163 | P12830 | CDH1 | 0.003445 | 0.99 | 0.99 |
| 164 | P35968 | KDR | 0.003445 | 1 | 1 |
| 165 | Q14694 | USP10 | 0.003412 | 1 | 1 |
| 166 | P15498 | JUP | 0.00338 | 0.99 | 1 |
| 167 | P14923 | VAV1 | 0.003347 | 0.93 | 0.99 |
| 168 | P37840 | SNCA | 0.003282 | 0.97 | 0.98 |
| 169 | P41235 | HNF4A | 0.00325 | 0.99 | 1 |
| 170 | Q13043 | Q13043 | 0.003217 | 0.97 | 0.95 |
| 171 | P50502 | ST13 | 0.003217 | 1 | 1 |
| 172 | P10721 | KIT | 0.003185 | 0.98 | 1 |
| 173 | P48552 | NRIP1 | 0.003185 | 0.94 | 0.94 |
| 174 | P23142 | FBLN1 | 0.003152 | 0.99 | 0.98 |
| 175 | P16220 | CREB1 | 0.00312 | 1 | 1 |
| 176 | P25445 | FAS | 0.003087 | 0.99 | 1 |
| 177 | Q16620 | NTRK2 | 0.003055 | 1 | 1 |
| 178 | P55957 | BID | 0.003022 | 1 | 1 |
| 179 | O94875 | SORBS2 | 0.003022 | 1 | 0.96 |
| 180 | P50570 | DNM2 | 0.00299 | 1 | 1 |
| 181 | P19338 | NCL | 0.002957 | 1 | 0.98 |
| 182 | P20936 | RASA1 | 0.002957 | 0.98 | 1 |
| 183 | P10599 | TXN | 0.002925 | 1 | 0.97 |
| 184 | Q07812 | BAX | 0.002892 | 1 | 1 |
| 185 | P35579 | MYH9 | 0.002892 | 1 | 1 |
| 186 | P06396 | GSN | 0.002892 | 1 | 1 |
| 187 | Q07666 | KHDRBS1 | 0.00286 | 0.92 | 1 |
| 188 | P60484 | PTEN | 0.00286 | 0.91 | 0.95 |
| 189 | P42684 | ABL2 | 0.002827 | 1 | 1 |
| 190 | O75791 | GRAP2 | 0.002827 | 0.93 | 0.93 |
| 191 | P09211 | GSTP1 | 0.002827 | 0.95 | 0.93 |
| 192  Table 3. (Continued) | Q92934 | BAD | 0.002762 | 0.98 | 1 |
| 193 | Q00526 | CDK3 | 0.002762 | 0.96 | 0.93 |
| 194 | P46531 | NOTCH1 | 0.002762 | 1 | 1 |
| 195 | Q13188 | STK3 | 0.00273 | 0.91 | 0.98 |
| 196 | P98082 | DAB2 | 0.002665 | 1 | 1 |
| 197 | P26358 | DNMT1 | 0.002665 | 0.99 | 1 |
| 198 | O95376 | ARIH2 | 0.002665 | 1 | 0.97 |
| 199 | P23458 | JAK1 | 0.002632 | 0.99 | 1 |
| 200 | P41240 | CSK | 0.0026 | 1 | 1 |
| 201 | P51692 | STAT5B | 0.0026 | 1 | 1 |
| 202 | P17936 | IGFBP3 | 0.0026 | 1 | 1 |
| 203 | P49810 | PSEN2 | 0.002567 | 1 | 1 |
| 204 | O14654 | IRS4 | 0.002567 | 1 | 1 |
| 205 | P19235 | EPOR | 0.002535 | 1 | 1 |
| 206 | Q13094 | LCP2 | 0.002502 | 0.95 | 0.95 |
| 207 | O14939 | PLD2 | 0.002502 | 1 | 1 |
| 208 | P07437 | TUBB | 0.002502 | 1 | 0.99 |
| 209 | P11309 | PIM1 | 0.002502 | 0.97 | 0.97 |
| 210 | P29350 | PTPN6 | 0.00247 | 0.92 | 0.98 |
| 211 | P08138 | NGFR | 0.00247 | 1 | 0.99 |
| 212 | P08581 | MET | 0.00247 | 1 | 1 |
| 213 | Q9Y478 | PRKAB1 | 0.00247 | 1 | 1 |
| 214 | P49069 | CAMLG | 0.00247 | 1 | 1 |
| 215 | Q01826 | SATB1 | 0.002437 | 1 | 0.99 |
| 216 | P29597 | TYK2 | 0.002437 | 0.99 | 0.92 |
| 217 | Q7RTU3 | OLIG3 | 0.002437 | 0.93 | 0.92 |
| 218 | P23443 | RPS6KB1 | 0.002405 | 0.99 | 1 |
| 219 | Q14686 | NCOA6 | 0.002405 | 0.9 | 0.99 |
| 220 | P01112 | HRAS | 0.002405 | 0.97 | 1 |
| 221 | Q13322 | GRB10 | 0.002372 | 0.99 | 0.97 |
| 222 | P31751 | AKT2 | 0.002372 | 1 | 1 |
| 223 | Q13233 | MAP3K1 | 0.00234 | 0.99 | 1 |
| 224 | Q9BTA9 | WAC | 0.00234 | 0.95 | 0.96 |
| 225 | P07949 | RET | 0.002307 | 1 | 0.99 |
| 226 | P42768 | WAS | 0.002275 | 0.93 | 0.96 |
| 227 | P51959 | CCNG1 | 0.002275 | 1 | 0.91 |
| 228 | P40189 | IL6ST | 0.002242 | 1 | 1 |
| 229 | O14746 | TERT | 0.00221 | 1 | 1 |
| 230 | Q9UNN5 | FAF1 | 0.00221 | 1 | 1 |
| 231 | Q07889 | SOS1 | 0.002177 | 0.96 | 1 |
| 232 | P10912 | GHR | 0.002177 | 0.99 | 1 |
| 233 | Q13153 | PAK1 | 0.002145 | 0.93 | 0.92 |
| 234 | Q9H2X6 | HIPK2 | 0.002145 | 0.98 | 0.95 |
| 235 | Q15233 | NONO | 0.002145 | 0.97 | 0.96 |
| 236  Table 3. (Continued) | Q9UBP5 | HEY2 | 0.002112 | 1 | 0.97 |
| 237 | A7KAX9 | ARHGAP32 | 0.00208 | 0.99 | 0.98 |
| 238 | P02768 | ALB | 0.00208 | 1 | 1 |
| 239 | Q7Z434 | MAVS | 0.002047 | 0.99 | 0.96 |
| 240 | P22736 | NR4A1 | 0.002015 | 0.97 | 0.94 |
| 241 | P42566 | EPS15 | 0.001982 | 0.94 | 0.9 |
| 242 | Q13177 | PAK2 | 0.00195 | 0.97 | 0.96 |
| 243 | P29466 | CASP1 | 0.001917 | 1 | 1 |
| 244 | Q99836 | MYD88 | 0.001917 | 0.95 | 1 |
| 245 | O43524 | FOXO3 | 0.001917 | 0.93 | 0.94 |
| 246 | Q15596 | NCOA2 | 0.001885 | 0.96 | 1 |
| 247 | Q5JUK2 | SOHLH1 | 0.001885 | 0.92 | 0.98 |
| 248 | Q86XR7 | TICAM2 | 0.001852 | 1 | 1 |
| 249 | Q7Z6Z7 | HUWE1 | 0.001852 | 0.97 | 0.99 |
| 250 | Q8IZW8 | TNS4 | 0.001852 | 0.99 | 0.98 |
| 251 | J3KPQ4 | ARHGAP9 | 0.001787 | 1 | 1 |
| 252 | P05549 | TFAP2A | 0.001755 | 1 | 0.98 |
| 253 | P68104 | EEF1A1 | 0.001755 | 0.97 | 1 |
| 254 | Q96EP0 | RNF31 | 0.001755 | 0.98 | 0.92 |
| 255 | P07355 | ANXA2 | 0.001755 | 1 | 1 |
| 256 | Q9UQF2 | MAPK8IP1 | 0.001722 | 0.99 | 1 |
| 257 | Q9BUN8 | DERL1 | 0.001722 | 0.98 | 0.96 |
| 258 | P16234 | PDGFRA | 0.001722 | 0.97 | 0.99 |
| 259 | P21860 | ERBB3 | 0.00169 | 1 | 1 |
| 260 | Q14CS0 | UBXN2B | 0.00169 | 0.98 | 0.94 |
| 261 | O60729 | CDC14B | 0.00169 | 1 | 1 |
| 262 | P29474 | NOS3 | 0.001657 | 0.98 | 0.93 |
| 263 | Q7Z419 | RNF144B | 0.001657 | 0.9 | 0.93 |
| 264 | Q86WX3 | RPS19BP1 | 0.001657 | 1 | 0.99 |
| 265 | P10909 | CLU | 0.001657 | 0.98 | 1 |
| 266 | P02786 | TFRC | 0.001625 | 1 | 1 |
| 267 | Q9UQC2 | GAB2 | 0.001625 | 1 | 1 |
| 268 | P15976 | GATA1 | 0.001592 | 0.94 | 0.98 |
| 269 | P16070 | CD44 | 0.001592 | 1 | 1 |
| 270 | Q9ULZ3 | PYCARD | 0.00156 | 1 | 1 |
| 271 | Q8IUC6 | TICAM1 | 0.001527 | 0.99 | 1 |
| 272 | Q96AD5 | PNPLA2 | 0.001527 | 1 | 0.99 |
| 273 | O95997 | PTTG1 | 0.001495 | 1 | 0.99 |
| 274 | Q15047 | SETDB1 | 0.001462 | 1 | 0.9 |
| 275 | O15519 | CFLAR | 0.001462 | 0.97 | 0.98 |
| 276 | P19419 | ELK1 | 0.001462 | 1 | 1 |
| 277 | Q02447 | SP3 | 0.001462 | 0.99 | 0.99 |
| 278 | P14598 | NCF1 | 0.00143 | 0.97 | 1 |
| 279 | Q6R327 | RICTOR | 0.00143 | 0.98 | 1 |
| 280  Table 3. (Continued) | Q9UPT9 | USP22 | 0.00143 | 0.98 | 0.95 |
| 281 | Q9BZS1 | FOXP3 | 0.00143 | 0.95 | 0.95 |
| 282 | O75385 | ULK1 | 0.00143 | 0.98 | 1 |
| 283 | Q9Y6X2 | PIAS3 | 0.001397 | 1 | 1 |
| 284 | Q16236 | NFE2L2 | 0.001397 | 0.99 | 0.99 |
| 285 | Q02078 | MEF2A | 0.001397 | 1 | 0.99 |
| 286 | Q9NRF2 | SH2B1 | 0.001397 | 1 | 1 |
| 287 | Q7Z333 | SETX | 0.001397 | 1 | 1 |
| 288 | Q14191 | WRN | 0.001365 | 0.91 | 1 |
| 289 | P30307 | CDC25C | 0.001365 | 0.98 | 0.94 |
| 290 | P49137 | MAPKAPK2 | 0.001365 | 1 | 1 |
| 291 | P16885 | PLCG2 | 0.001365 | 0.97 | 0.96 |
| 292 | Q8IZL8 | PELP1 | 0.001365 | 0.92 | 0.94 |
| 293 | Q03692 | COL10A1 | 0.001365 | 0.99 | 0.99 |
| 294 | B2RUY7 | VWC2L | 0.001365 | 0.91 | 0.94 |
| 295 | Q969V5 | MUL1 | 0.001332 | 0.99 | 0.99 |
| 296 | Q9UL15 | BAG5 | 0.001332 | 0.94 | 0.96 |
| 297 | P43220 | GLP1R | 0.001332 | 1 | 0.98 |
| 298 | P07996 | THBS1 | 0.001332 | 1 | 1 |
| 299 | P69905 | HBA1 | 0.001267 | 1 | 0.94 |
| 300 | P07288 | KLK3 | 0.001267 | 1 | 1 |
| 301 | Q07021 | C1QBP | 0.001235 | 0.95 | 1 |
| 302 | O14543 | SOCS3 | 0.001235 | 0.93 | 0.99 |
| 303 | P48729 | CSNK1A1 | 0.001235 | 0.96 | 0.98 |
| 304 | Q9C000 | NLRP1 | 0.001235 | 1 | 1 |
| 305 | Q9NQC3 | RTN4 | 0.001235 | 0.94 | 1 |
| 306 | Q99962 | SH3GL2 | 0.001202 | 0.92 | 0.98 |
| 307 | Q9UJY4 | GGA2 | 0.001202 | 0.97 | 0.98 |
| 308 | P01130 | LDLR | 0.001202 | 1 | 1 |
| 309 | Q9H6Q3 | SLA2 | 0.001202 | 1 | 1 |
| 310 | P17948 | FLT1 | 0.001202 | 1 | 1 |
| 311 | Q68CZ2 | TNS3 | 0.00117 | 1 | 1 |
| 312 | Q8WTS6 | SETD7 | 0.00117 | 0.98 | 0.98 |
| 313 | Q13257 | MAD2L1 | 0.00117 | 0.92 | 0.95 |
| 314 | Q9UBK2 | PPARGC1A | 0.00117 | 0.92 | 1 |
| 315 | Q14526 | HIC1 | 0.001137 | 1 | 1 |
| 316 | Q9UJU2 | LEF1 | 0.001137 | 0.94 | 0.94 |
| 317 | Q6E0U4 | DMKN | 0.001137 | 1 | 1 |
| 318 | O00273 | DFFA | 0.001137 | 1 | 1 |
| 319 | O43294 | TGFB1I1 | 0.001137 | 1 | 1 |
| 320 | O75496 | GMNN | 0.001105 | 0.98 | 0.91 |
| 321 | P31785 | IL2RG | 0.001105 | 0.99 | 0.97 |
| 322 | Q7L591 | DOK3 | 0.001105 | 0.98 | 0.94 |
| 323 | Q6PIL6 | KCNIP4 | 0.001105 | 1 | 0.99 |
| 324  Table 3. (Continued) | P55211 | CASP9 | 0.001072 | 0.93 | 0.95 |
| 325 | P17252 | PRKCA | 0.001072 | 0.92 | 0.9 |
| 326 | P14921 | ETS1 | 0.001072 | 0.91 | 0.93 |
| 327 | Q8N122 | RPTOR | 0.001072 | 0.95 | 1 |
| 328 | O00255 | MEN1 | 0.001072 | 0.93 | 1 |
| 329 | Q53EL6 | PDCD4 | 0.001072 | 0.99 | 0.99 |
| 330 | Q06547 | GABPB1 | 0.001072 | 0.9 | 0.93 |
| 331 | Q15303 | ERBB4 | 0.00104 | 0.99 | 0.96 |
| 332 | P30305 | CDC25B | 0.00104 | 0.94 | 0.94 |
| 333 | P78314 | SH3BP2 | 0.00104 | 0.9 | 1 |
| 334 | P02671 | FGA | 0.00104 | 1 | 0.92 |
| 335 | Q14151 | SAFB2 | 0.00104 | 1 | 1 |
| 336 | Q13115 | DUSP4 | 0.00104 | 1 | 1 |
| 337 | P14868 | DARS1 | 0.00104 | 0.96 | 1 |
| 338 | Q9Y4E8 | USP15 | 0.00104 | 0.93 | 0.93 |
| 339 | Q08209 | PPP3CA | 0.00104 | 0.95 | 0.97 |
| 340 | O75084 | FZD7 | 0.00104 | 0.99 | 0.94 |
| 341 | A0A0A0MTC1 | RNF213 | 0.00104 | 1 | 1 |
| 342 | P08151 | GLI1 | 0.001007 | 0.96 | 0.95 |
| 343 | Q13085 | ACACA | 0.001007 | 1 | 1 |
| 344 | P30405 | PPIF | 0.001007 | 0.99 | 0.94 |
| 345 | A0A087WZP6 | NID2 | 0.001007 | 0.95 | 0.97 |
| 346 | Q12772 | SREBF2 | 0.000975 | 0.99 | 1 |
| 347 | O60264 | SMARCA5 | 0.000975 | 0.95 | 1 |
| 348 | P20333 | TNFRSF1B | 0.000975 | 1 | 0.97 |
| 349 | Q15672 | TWIST1 | 0.000975 | 0.97 | 0.97 |
| 350 | Q63HN8 | RNF213 | 0.000975 | 1 | 1 |
| 351 | P12268 | IMPDH2 | 0.000975 | 0.97 | 0.95 |
| 352 | P31948 | STIP1 | 0.000942 | 0.96 | 0.99 |
| 353 | Q15628 | TRADD | 0.000942 | 0.99 | 0.97 |
| 354 | Q969H0 | FBXW7 | 0.000942 | 0.96 | 0.97 |
| 355 | P12757 | SKIL | 0.000942 | 0.92 | 0.96 |
| 356 | Q92574 | TSC1 | 0.000942 | 0.97 | 1 |
| 357 | Q9Y5X1 | SNX9 | 0.000942 | 0.99 | 1 |
| 358 | P42336 | PIK3CA | 0.000942 | 0.99 | 1 |
| 359 | Q96JN0 | LCOR | 0.000942 | 0.99 | 0.91 |
| 360 | Q13761 | RUNX3 | 0.00091 | 0.99 | 1 |
| 361 | Q05193 | DNM1 | 0.00091 | 0.99 | 0.97 |
| 362 | Q9NRR5 | UBQLN4 | 0.00091 | 0.95 | 0.99 |
| 363 | Q7KZI7 | MARK2 | 0.00091 | 0.91 | 0.99 |
| 364 | Q9UFW8 | CGGBP1 | 0.00091 | 0.95 | 0.91 |
| 365 | P01189 | POMC | 0.00091 | 0.94 | 0.9 |
| 366 | Q96MS0 | ROBO3 | 0.00091 | 1 | 1 |
| 367 | P07711 | CTSL | 0.00091 | 1 | 1 |
| 368  Table 3. (Continued) | P07585 | DCN | 0.00091 | 1 | 1 |
| 369 | O15524 | SOCS1 | 0.000877 | 0.97 | 1 |
| 370 | P17480 | UBTF | 0.000877 | 0.93 | 0.97 |
| 371 | P41134 | ID1 | 0.000877 | 0.98 | 0.99 |
| 372 | Q96IV0 | NGLY1 | 0.000877 | 0.95 | 0.95 |
| 373 | Q9UHI8 | ADAMTS1 | 0.000877 | 1 | 1 |
| 374 | O14972 | VPS26C | 0.000877 | 1 | 0.92 |
| 375 | Q8WYK0 | ACOT12 | 0.000877 | 1 | 0.98 |
| 376 | Q99640 | PKMYT1 | 0.000845 | 1 | 0.99 |
| 377 | Q04759 | PRKCQ | 0.000845 | 1 | 1 |
| 378 | Q99623 | PHB2 | 0.000845 | 0.98 | 0.99 |
| 379 | A6NLX3 | SPDYE4 | 0.000845 | 0.95 | 0.99 |
| 380 | P08519 | LPA | 0.000845 | 0.97 | 0.98 |
| 381 | O95816 | BAG2 | 0.000812 | 0.98 | 0.92 |
| 382 | O14492 | SH2B2 | 0.000812 | 1 | 1 |
| 383 | P30622 | CLIP1 | 0.000812 | 1 | 1 |
| 384 | O43159 | RRP8 | 0.000812 | 1 | 0.96 |
| 385 | O60496 | DOK2 | 0.000812 | 0.98 | 1 |
| 386 | O14544 | SOCS6 | 0.000812 | 0.97 | 0.94 |
| 387 | P56817 | BACE1 | 0.000812 | 1 | 1 |
| 388 | Q96T76 | MMS19 | 0.000812 | 1 | 1 |
| 389 | Q5TBC7 | BCL2L15 | 0.000812 | 1 | 0.95 |
| 390 | P98177 | FOXO4 | 0.000812 | 1 | 1 |
| 391 | P45985 | MAP2K4 | 0.000812 | 0.92 | 1 |
| 392 | P31689 | DNAJA1 | 0.000812 | 1 | 1 |
| 393 | P62834 | RAP1A | 0.00078 | 0.96 | 1 |
| 394 | P17706 | PTPN2 | 0.00078 | 1 | 1 |
| 395 | Q96RI1 | NR1H4 | 0.00078 | 0.96 | 1 |
| 396 | P29279 | CCN2 | 0.00078 | 1 | 1 |
| 397 | Q8N3J5 | PPM1K | 0.00078 | 1 | 1 |
| 398 | P06756 | ITGAV | 0.000747 | 0.97 | 1 |
| 399 | Q15109 | AGER | 0.000747 | 1 | 1 |
| 400 | O15347 | HMGB3 | 0.000747 | 1 | 0.99 |
| 401 | P04053 | DNTT | 0.000747 | 1 | 0.96 |
| 402 | H0YDE2 | PLEKHA7 | 0.000747 | 0.95 | 0.94 |
| 403 | P16152 | CBR1 | 0.000747 | 1 | 1 |
| 404 | P24394 | IL4R | 0.000715 | 0.99 | 1 |
| 405 | O15392 | BIRC5 | 0.000715 | 0.9 | 1 |
| 406 | O14640 | DVL1 | 0.000715 | 0.96 | 0.95 |
| 407 | P49715 | CEBPA | 0.000715 | 0.91 | 0.96 |
| 408 | Q13480 | GAB1 | 0.000715 | 0.91 | 0.99 |
| 409 | P53999 | SUB1 | 0.000715 | 0.99 | 0.96 |
| 410 | Q96RT1 | ERBIN | 0.000715 | 0.99 | 0.99 |
| 411 | O15530 | PDPK1 | 0.000715 | 0.93 | 1 |
| 412  Table 3. (Continued) | P17096 | HMGA1 | 0.000715 | 0.98 | 0.99 |
| 413 | P15509 | CSF2RA | 0.000715 | 0.99 | 1 |
| 414 | Q9H4B4 | PLK3 | 0.000715 | 0.94 | 0.92 |
| 415 | P07384 | CAPN1 | 0.000715 | 1 | 1 |
| 416 | P43146 | DCC | 0.000715 | 0.96 | 1 |
| 417 | Q8TAQ5 | ZNF420 | 0.000715 | 1 | 1 |
| 418 | P14210 | HGF | 0.000715 | 1 | 0.95 |
| 419 | Q9UDV6 | ZNF212 | 0.000715 | 0.94 | 0.92 |
| 420 | P98164 | LRP2 | 0.000715 | 0.92 | 0.99 |
| 421 | Q3LHN2 | KRTAP19-2 | 0.000715 | 0.91 | 0.95 |
| 422 | Q6PIF2 | SYCE2 | 0.000715 | 0.99 | 0.98 |
| 423 | P52198 | RND2 | 0.000715 | 1 | 0.97 |
| 424 | Q86TM6 | SYVN1 | 0.000682 | 0.92 | 0.99 |
| 425 | Q15811 | ITSN1 | 0.000682 | 0.92 | 1 |
| 426 | O95163 | ELP1 | 0.000682 | 0.94 | 0.99 |
| 427 | O60563 | CCNT1 | 0.000682 | 0.9 | 0.9 |
| 428 | P55197 | MLLT10 | 0.000682 | 0.99 | 0.98 |
| 429 | P10147 | CCL3 | 0.000682 | 1 | 1 |
| 430 | Q96QZ7 | MAGI1 | 0.000682 | 0.91 | 0.99 |
| 431 | Q8TAI7 | RHEBL1 | 0.000682 | 1 | 1 |
| 432 | Q8WYA1 | ARNTL2 | 0.000682 | 1 | 0.91 |
| 433 | P30533 | LRPAP1 | 0.00065 | 1 | 1 |
| 434 | Q14118 | DAG1 | 0.00065 | 0.97 | 0.98 |
| 435 | P02745 | C1QA | 0.00065 | 0.99 | 1 |
| 436 | P25815 | S100P | 0.00065 | 0.95 | 0.98 |
| 437 | P14625 | HSP90B1 | 0.00065 | 0.96 | 0.92 |
| 438 | O94973 | AP2A2 | 0.00065 | 0.98 | 0.99 |
| 439 | O75638 | CTAG2 | 0.00065 | 0.99 | 0.97 |
| 440 | P01116 | KRAS | 0.00065 | 0.99 | 1 |
| 441 | P09603 | CSF1 | 0.00065 | 0.98 | 0.9 |
| 442 | O14791 | APOL1 | 0.00065 | 1 | 1 |
| 443 | Q13887 | KLF5 | 0.00065 | 0.97 | 0.98 |
| 444 | Q9BWX5 | GATA5 | 0.00065 | 1 | 0.96 |
| 445 | O14727 | APAF1 | 0.000617 | 0.96 | 1 |
| 446 | Q8WV28 | BLNK | 0.000617 | 0.97 | 1 |
| 447 | P16284 | PECAM1 | 0.000617 | 0.98 | 1 |
| 448 | P21980 | TGM2 | 0.000617 | 0.98 | 1 |
| 449 | P14778 | IL1R1 | 0.000617 | 1 | 1 |
| 450 | P54252 | ATXN3 | 0.000617 | 0.92 | 0.93 |
| 451 | P14317 | HCLS1 | 0.000617 | 0.99 | 1 |
| 452 | P68363 | TUBA1B | 0.000617 | 1 | 1 |
| 453 | O00155 | GPR25 | 0.000617 | 0.9 | 0.91 |
| 454 | Q99814 | EPAS1 | 0.000585 | 0.96 | 0.97 |
| 455 | Q9Y463 | DYRK1B | 0.000585 | 0.96 | 0.96 |
| 456  Table 3. (Continued) | P61587 | RND3 | 0.000585 | 1 | 1 |
| 457 | O00141 | SGK1 | 0.000585 | 0.99 | 1 |
| 458 | Q08050 | FOXM1 | 0.000585 | 0.92 | 0.96 |
| 459 | Q06413 | MEF2C | 0.000585 | 0.94 | 0.94 |
| 460 | P98160 | HSPG2 | 0.000585 | 0.99 | 1 |
| 461 | Q14643 | ITPR1 | 0.000585 | 0.95 | 0.96 |
| 462 | Q9H0F5 | RNF38 | 0.000585 | 0.94 | 0.96 |
| 463 | Q8TB03 | CXorf38 | 0.000585 | 1 | 0.94 |
| 464 | P25101 | EDNRA | 0.000552 | 1 | 1 |
| 465 | P58753 | TIRAP | 0.000552 | 0.91 | 1 |
| 466 | Q14185 | DOCK1 | 0.000552 | 0.99 | 0.98 |
| 467 | Q9BVP2 | GNL3 | 0.000552 | 0.99 | 0.98 |
| 468 | Q9Y2U5 | MAP3K2 | 0.000552 | 0.9 | 0.94 |
| 469 | P41279 | MAP3K8 | 0.000552 | 0.97 | 0.99 |
| 470 | Q13772 | NCOA4 | 0.000552 | 0.99 | 0.98 |
| 471 | P55212 | P55212 | 0.000552 | 0.98 | 0.95 |
| 472 | A0A087WUP2 | VCX3A | 0.000552 | 0.98 | 0.97 |
| 473 | Q9H0N5 | PCBD2 | 0.000552 | 0.92 | 0.93 |
| 474 | P01019 | AGT | 0.000552 | 1 | 1 |
| 475 | P49840 | GSK3A | 0.00052 | 0.96 | 0.95 |
| 476 | O60884 | DNAJA2 | 0.00052 | 0.98 | 0.95 |
| 477 | Q8WX92 | NELFB | 0.00052 | 0.99 | 0.93 |
| 478 | Q16584 | MAP3K11 | 0.00052 | 0.96 | 0.97 |
| 479 | Q9UKL0 | RCOR1 | 0.00052 | 0.93 | 0.95 |
| 480 | Q14934 | NFATC4 | 0.00052 | 0.99 | 1 |
| 481 | P48681 | NES | 0.00052 | 1 | 1 |
| 482 | Q9UK22 | FBXO2 | 0.00052 | 0.98 | 1 |
| 483 | O14625 | CXCL11 | 0.00052 | 1 | 0.97 |
| 484 | Q08493 | PDE4C | 0.00052 | 1 | 0.98 |
| 485 | P23284 | PPIB | 0.00052 | 0.99 | 0.92 |
| 486 | Q14814 | Q14814 | 0.00052 | 0.98 | 0.99 |
| 487 | P18847 | ATF3 | 0.000487 | 0.9 | 0.9 |
| 488 | Q92736 | RYR2 | 0.000487 | 1 | 1 |
| 489 | Q08881 | ITK | 0.000487 | 0.91 | 0.98 |
| 490 | Q99523 | SORT1 | 0.000487 | 0.99 | 1 |
| 491 | P05198 | EIF2S1 | 0.000487 | 0.98 | 0.99 |
| 492 | P55055 | NR1H2 | 0.000487 | 0.95 | 0.93 |
| 493 | Q6RSH7 | VHLL | 0.000487 | 0.98 | 0.98 |
| 494 | P78368 | CSNK1G2 | 0.000487 | 1 | 0.99 |
| 495 | P80098 | CCL7 | 0.000487 | 0.99 | 0.99 |
| 496 | Q9BQC3 | DPH2 | 0.000487 | 0.98 | 0.99 |
| 497 | O00534 | VWA5A | 0.000487 | 1 | 0.99 |
| 498 | P20933 | AGA | 0.000487 | 1 | 0.99 |
| 499 | Q96MG2 | JSRP1 | 0.000487 | 0.95 | 0.98 |

Table C.3. (Continued)