Kinase domains with PDB structures with "ESCHERICHIA" contained within the EXPRESSION SYSTEM field

Number of kinase domains returned: 136

Data for these kinase domains is listed at the end, sorted by target score.

Notes on selected kinases:

- EGFR (TK) 2 PDBs
 - Both PDBs are false positives only the substrate peptides were expressed in E coli
- BRAF (TKL) 3 PDBs
 - PDBs:
 - 3C4C
 - Used an engineered form of BRAF, in which a number of solvent-exposed hydrophobic residues were mutated to more polar residues.
 - 4FK3
 - same article as above
 - 4JVG
 - different study, but looks like the same construct
- JAK2 (TK) 2 PDBs
 - PDBs:
 - 2XA4
 - confirmed from article. BL21 cells. A few mutations.
 - 3ZMM
 - · same group.
- **MET** (TK) 5 PDBs
 - Example PDBs:
 - 2G15
 - 2006 paper group at Plexxikon (Berkeley; corresponding author: Brian L West). They report yields > 1 mg/L for expression of Abl1, Src and Met kinases in E coli. They co-expressed with PTP1B tyrosine phosphatase. N-terminal His tag. Otherwise no modifications (WT sequences). Derived an XRC structure for Met kinase. Abl1 construct: G227-V515.
 - 3RHK
- different group, followed Plexxicon protocol
- MAPK14 (CMGC) 187 PDBs
 - (MK14 HUMAN below)
 - a P38 kinase
 - PDBs seem to comprise WT sequence
- CDK2 (CMGC) 191 PDBs
 - No disease associations in UniProt entry, but other sources indicate association with smooth muscle tumor, oligodendroglioma, and Wikipedia mentions CDK2 inhibition as a possible strategy for prevention of chemotherapy-induced alopecia.

= List of PK domains with E coli expression host listed in PDB structure, ordered by priority score =

target_score = based on npubs, %muts, npk_pdbs and ndisease_assocs (with strong penalty for pseudogenes and PK domains with unusually long or short sequences)
pk length = aa length of PK domain

npubs = number of publications listed in PubMed

%muts = percentage mutations for this gene within all cBioPortal tumor sequencing data

npk_pdbs = number of PDBs for which the PK domain is resolved

ndisease_assocs = from UniProt (not particularly reliable - working on integrating a more suitable resource)

nbioassays = from BindingDB

| kinDB id | target score | family | pk length | npubs | %muts | npk pdbs | ndisease assocs | nbioassays | np | dbs w | expr s | ystem | "*ESCH | ERICHI | A*" & | first | 10 PDE | codes | 3 |
|--|--------------|--------------|------------|-----------|-------|----------|-----------------|------------|---------|--------------|--------------|--------|---------|--------|--------|-----------|-------------|-------|------|
| EGFR HUMAN P00533 PK0 | 100.0 | TK | 268 | 2948 | 4.954 | 59 | 1 - | 6377 | _ | 2RF9 | 4121 | - | | | | | | | |
| BRAF HUMAN P15056 PK0 | 74.8 | TKL | 261 | 986 | 7.055 | 28 | 8 | 901 | | 3C4C | | 4JVG | | | | | | | |
| JAK2 HUMAN 060674 PK0 | 72.2 | TK | 276 | 999 | 1.971 | 31 | 6 | 1306 | 2 | 2XA4 | 3ZMM | | | | | | | | |
| MET HUMAN P08581 PK0 | 70.2 | TK | 268 | 557 | 2.419 | 42 | 6 | 2319 | 5 | 2G15 | 3RHK | 4EEV | 4GG5 | 4GG7 | | | | | |
| MK14 HUMAN Q16539 PK0 | 69.1 | CMGC | 285 | 946 | 0.702 | 199 | 0 | 5224 | 187 | 1A9U | 1BL6 | 1BL7 | | | 1IAN | 1KV1 | 1KV2 | 1M70 | 10UK |
| VGFR2 HUMAN P35968 PK0 | 68.2 | TK | 329 | 585 | 3.418 | 34 | 2 | 5526 | 3 | 1Y6A | 1Y6B | 20H4 | | | | | | ~ | |
| CDK2 HUMAN P24941 PK0 | 64.0 | CMGC | 283 | 563 | 0.690 | 337 | 0 | 3509 | 191 | 1BUH | 1E9H | 1F5Q | 1FIN | 1FO1 | 1 FVT | 1FVV | 1GY3 | 1H1P | 1H10 |
| ABL1 HUMAN P00519 PK0 | 62.4 | TK | 252 | 582 | 1.644 | 21 | 2 | 2746 | | 2F4J | 2G1T | | | 2G2I | 3UE4 | | | | |
| KIT HUMAN P10721 PK0 | 61.9 | TK | 349 | 682 | 2.595 | 6 | 4 | 1677 | 1 | 4HVS | | | | | | | | | |
| FGFR1 HUMAN P11362 PK0 | 61.4 | TK | 290 | 306 | 1.794 | 15 | 7 | 1250 | 10 | 3C4F | 3GQI | 3GQL | 3JS2 | 3KXX | 3KY2 | 3RHX | 4F63 | 4F64 | 4F65 |
| MK01 HUMAN P28482 PK0 | 61.1 | CMGC | 289 | 1436 | 0.760 | 32 | 0 | 788 | 32 | 1 PME | 1TVO | 1WZY | 20JG | | | 2Y90 | 315Z | 3160 | 3SA0 |
| INSR HUMAN P06213 PK0 | 60.2 | TK | 276 | 480 | 2.488 | 15 | 5 | 829 | 2 | 1RQQ | 2AUH | | | | | _ | | | |
| CHK2 HUMAN 096017 PK0 | 57.9 | CAMK | 267 | 415 | 1.666 | 36 | 4 | 477 | 25 | 2CN5 | 2CN8 | 2W0J | 2W7X | 2WTC | 2WTD | 2WTI | 2WTJ | 2XBJ | 2XK9 |
| FGFR2 HUMAN P21802 PK0 | 57.6 | TK | 290 | 380 | 2.877 | 14 | 9 | 277 | 12 | 2PSQ | 2PVF | 2PVY | 2PWL | 2PY3 | 2PZ5 | 2PZP | 2PZR | 200B | 3B2T |
| GSK3B HUMAN P49841 PK0 | 57.4 | CMGC | 285 | 722 | 1.323 | 42 | 0 | 2174 | 7 | 1J1B | 1J1C | 2JLD | 205K | 3M1S | 3PUP | 4DIT | | | |
| IGF1R HUMAN P08069 PK0 | 56.8 | TK | 276 | 611 | 2.025 | 16 | 1 | 1595 | | 3LVP | 3023 | | | | | | | | |
| TGFR1 HUMAN P36897 PK0 | 55.6 | TKL | 291 | 353 | 1.357 | 13 | 3 | 1074 | 1 | 1B6C | | | | | | | | | |
| CHK1 HUMAN 014757 PK0 | 55.3 | CAMK | 257 | 321 | 1.266 | 104 | 0 | 2312 | 9 | 2E9N | 2E90 | 2E9P | 2E9U | 2E9V | 2GHG | 2YWP | 3JVR | 3JVS | |
| AURKA HUMAN 014965 PK0 | 53.0 | | 251 | 384 | 0.823 | 66 | 0 | 1709 | 53 | 10L5 | 10L6 | 10L7 | 2C6D | 2C6E | 2NP8 | 2W1C | 2W1D | 2W1E | 2W1F |
| MK08 HUMAN P45983 PK0 | 52.2 | CMGC | 296 | 701 | 1.212 | 22 | 0 | 1190 | 22 | 1UKH | 1UKI | 2G01 | 2 GMX | 2H96 | 2NO3 | 2XRW | 2XS0 | 3ELJ | 3017 |
| PLK1 HUMAN P53350 PK0 | 51.5 | | 253 | 391 | 1.648 | 12 | 1 | 1188 | 2 | 2V5Q | 3THB | | | | | | | | |
| MK10 HUMAN P53779 PK0 | 51.1 | CMGC | 296 | 81 | 1.366 | 36 | 1 | 1310 | 36 | 1JNK | 1 PMN | 1 PMQ | 1 PMU | 1 PMV | 2B1P | 2EXC | 200U | 202U | 20K1 |
| MP2K1_HUMAN_Q02750_PK0 | 50.8 | STE | 294 | 277 | 1.427 | 29 | 1 | 790 | 14 | 1S9J | 2P55 | 3DV3 | 3DY7 | 3E8N | 3EQB | 3MBL | 30RN | 3083 | 3PP1 |
| FAK1 HUMAN Q05397 PK0 | 50.2 | TK | 259 | 555 | 1.826 | 9 | 1 | 658 | 1 | 2IJM | | | | | | | | | |
| VGFR1 HUMAN P17948 PK0 | 49.0 | TK | 332 | 430 | 3.150 | 1 | 2 | 1060 | 1 | 3HNG | | | | | | | | | |
| TIE2_HUMAN_Q02763_PK0 | 47.8 | TK | 273 | 179 | 2.230 | 6 | 2 | 749 | 3 | 2008 | 2OSC | 3L8P | | | | | | | |
| PIM1_HUMAN_P11309_PK0 | 47.6 | CAMK | 253 | 143 | 0.904 | 76 | 0 | 927 | 70 | 1XQZ | 1XR1 | 1XWS | 1YHS | 1YI3 | 1YI4 | 1YWV | 1YXS | 1YXT | 1YXU |
| CSK21_HUMAN_P68400_PK0 | 47.5 | | 286 | 544 | 1.196 | 38 | 0 | 442 | 38 | 1JWH | 1NA7 | 1PJK | 2 PVR | 2ZJW | 3AMY | 3AT2 | 3AT3 | 3AT4 | 3AXW |
| ITK_HUMAN_Q08881_PK0 | 46.4 | TK | 253 | 79 | 1.999 | 16 | 1 | 766 | 5 | 1SM2 | 1SNU | 1SNX | 3QGW | 3QGY | | | | | |
| HCK_HUMAN_P08631_PK0 | 46.3 | TK | 254 | 180 | 1.358 | 17 | 2 | 294 | 1 | 2HK5 | | | | | | | | | |
| JAK3_HUMAN_P52333_PK0 | 45.4 | TK | 290 | 168 | 1.729 | 8 | 1 | 771 | | 1YVJ | | | | | | | | | |
| BTK_HUMAN_Q06187_PK0 | 45.3 | TK | 254 | 212 | 1.849 | 12 | 2 | 256 | 1 | 1K2P | | | | | | | | | |
| KAPCA_HUMAN_P17612_PK0 | 45.2 | AGC | 255 | 448 | 1.041 | 19 | 0 | 592 | 15 | 2GU8 | 3AGL | 3AGM | ЗАМА | 3AMB | 3NX8 | 300G | 30VV | 30WP | 30XT |
| KSYK_HUMAN_P43405_PK0 | 44.9 | TK | 261 | 350 | 1.370 | 23 | 0 | 615 | 3 | 4DFL | 4DFN | 4F4P | | | | | | | |
| CDK9_HUMAN_P50750_PK0 | 44.4 | CMGC | 297 | 319 | 0.694 | 18 | 1 | 259 | 1 | 4IMY | | | | | | | | | |
| MAPK2_HUMAN_P49137_PK0 | 43.9 | CAMK | 262 | 104 | 1.097 | 22 | 0 | 1105 | 20 | 1KWP | 1NXK | 1NY3 | 2JBO | 2JBP | 20ZA | 2P3G | 2PZY | 3A2C | 3FPM |
| PDPK1_HUMAN_O15530_PK0 | 43.5 | AGC | 261 | 164 | 0.654 | 47 | 0 | 509 | 1 | 2R7B | | | | | | | | | |
| AURKB_HUMAN_Q96GD4_PK0 | 43.1 | | 251 | 254 | 0.752 | 1 | 1 | 1280 | | 4AF3 | | | | | | | | | |
| NTRK1_HUMAN_P04629_PK0 | 43.1 | TK | 272 | 245 | 2.121 | 3 | 2 | 331 | | 4F0I | | | | | | | | | |
| KS6A3_HUMAN_P51812_PK1 | 43.0 | AGC | 258 | 128 | 1.413 | 5 | 2 | 375 | 5 | 4D9T | 4D9U | 4JG6 | 4JG7 | 4JG8 | | | | | |
| JAK1_HUMAN_P23458_PK0 | 42.1 | TK | 279 | 254 | 2.167 | 12 | 0 | 634 | 2 | 3EYG | 3EYH | | | | | | | | |
| FAK2_HUMAN_Q14289_PK0 | 41.5 | TK | 259 | 243 | 1.573 | 10 | 1 | 227 | 2 | 3CC6 | 3ET7 | | | | | | | | |
| EPHA3_HUMAN_P29320_PK0 | 41.2 | TK | 262 | 52 | 3.952 | 21 | 1 | 164 | 21 | 2GSF | 2Q02 | 2Q07 | 2Q09 | 2Q0B | 2QOC | 2QOD | 2QOF | 2Q0I | 2QOK |
| ROCK1_HUMAN_Q13464_PK0 | 40.6 | AGC | 263 | 229 | 2.730 | 10 | 0 | 510 | 1 | 2V55 | | | | | | | | | |
| MK03_HUMAN_P27361_PK0 | 39.8 | CMGC | 289 | 993 | 0.809 | 1 | 0 | 202 | 1 | - | 0 | 2 | 0.000 | | | | | | |
| DYR1A_HUMAN_Q13627_PK0 | 38.5 | CMGC | 321 | 108 | 1.745 | 5 | 1 | 270 | 5 | 2VX3 | 2W06 | 3ANQ | 3ANR | 4AZE | | | | | |
| KC1D_HUMAN_P48730_PK0 | 37.0 | CK1 CAMK | 269 | 79 | 1.303 | 5 30 | 1 | 219 128 | 2 30 | 4HGT | 4HNF | 1 7767 | 1 777.0 | 1 7760 | 1040 | 2 507 757 | 2 5 77 73 7 | 1WVY | 2W4J |
| DAPK1_HUMAN_P53355_PK0 | 36.9 | | 263 | 160 81 | 1.748 | 8 | 2 | 72 | 8 | 1IG1 | 1JKK | 1JKL | 1JKS | | 1P4F | 1WVW | | IMAI | 2W4J |
| CSKP_HUMAN_014936_PK0 MK09 HUMAN P45984 PK0 | 36.6 36.6 | CAMK CMGC | 265 296 | 183 | 1.748 | 2 | 0 | 772 | 2 | 3C0G 3E70 | 3COH 3NPC | 3C0I | 3MFR | SPIE S | 3MFT | 3MFU | SIMC | | |
| | 36.6 | NEK | 264 | 183 78 | 0.967 | 20 | 0 | 252 | 20 | 2JAV | | 2W5B | 214511 | 21400 | 2XK3 | 2XK4 | 2XK6 | 2XK7 | 2XK8 |
| NEK2_HUMAN_P51955_PK0 | 36.2 | AGC | 255 | 181 | 1.881 | 20 | 0 | 654 | 20 | 1XJD | ACWS | ZWJB | 2W5H | ZWQU | 2AN3 | ZAN4 | 2AN0 | 2AN/ | ZANO |
| KPCT_HUMAN_Q04759_PK0 TTK HUMAN P33981 PK0 | 36.2 36.0 | AGC | 255 267 | 181 85 | 2.359 | 16 | 0 | 213 | 12 | 2ZMC | 2 ZMD | 3CEK | 3GFW | 3405 | 3HMN | ЗНМО | ЗНМР | 4BHZ | 4BI0 |
| MERTK HUMAN Q12866 PK0 | 35.8 | TK | 272 | 81 | 2.006 | 4 | 1 | 176 | 4 | 2POC | 3BPR | | 3TCP | 21122 | JIIIIN | JIPO | JIMP | 4004 | 4010 |
| ACVR1_HUMAN_Q04771_PK0 | 35.2 | TKL | 295 | 92 | 1.309 | 6 | 1 | 125 | - | 3H9R | JDER | JDND | JICP | | | | | | |
| TOTAL HOMEN QUALITERO | 33.2 | 11111 | 233 | 22 | 1.505 | 0 | - | | _ | JIIJA | | | | | | | | | |

| | | | | | | _ | _ | | | | | | | | | | | | |
|--|------|--------|-----|-----|---------|----|---|-----|----|----------|------|-------|-------|------|------|------|------|------|------|
| BMPR2_HUMAN_Q13873_PK0 | 35.2 | TKL | 302 | 165 | 1.949 | 1 | 2 | 124 | | 3G2F | | | | | | | | | |
| PAK1_HUMAN_Q13153_PK0 | 34.8 | STE | 252 | 304 | 1.021 | 10 | 0 | 139 | 10 | 1F3M | | 1YHW | | | 3FY0 | | 3Q52 | | 4DAW |
| PAK4_HUMAN_096013_PK0 | 34.6 | STE | 252 | 64 | 0.912 | 12 | 0 | 246 | | 2BVA | | 2J0I | 2Q0N | 2X4Z | 4APP | 4FIE | 4FIF | 4FIG | 4FIH |
| M3K5_HUMAN_Q99683_PK0 | 34.3 | STE | 259 | 189 | 2.385 | 8 | 0 | 170 | 2 | 2CLQ | 3VW6 | | | | | | | | |
| FES_HUMAN_P07332_PK0 | 34.1 | TK | 262 | 83 | 1.316 | 4 | 1 | 131 | 4 | 3BKB | 3CBL | 3CD3 | 4E93 | | | | | | |
| MP2K2_HUMAN_P36507_PK0 | 33.8 | STE | 298 | 158 | 0.764 | 1 | 1 | 211 | 1 | 1S9I | | | | | | | | | |
| STK10_HUMAN_094804_PK0 | 33.8 | STE | 259 | 21 | 1.822 | 4 | 1 | 136 | 4 | 2J7T | 4AOT | 4BC6 | 4EQU | | | | | | |
| E2AK2_HUMAN_P19525_PK0 | 33.1 | | 272 | 271 | 1.492 | 3 | 0 | 211 | 3 | 2A19 | 2A1A | 3UIU | | | | | | | |
| KS6A5 HUMAN 075582 PK1 | 32.1 | AGC | 262 | 78 | 1.410 | 2 | 0 | 374 | 2 | 3KN5 | 3KN6 | | | | | | | | |
| KS6A1_HUMAN_Q15418_PK1 | 32.0 | AGC | 258 | 150 | 1.086 | 2 | 0 | 309 | 1 | 3RNY | | | | | | | | | |
| CSK HUMAN P41240 PK0 | 31.9 | TK | 255 | 186 | 0.895 | 3 | 0 | 224 | 3 | 1BYG | 3D7T | 3D7U | | | | | | | |
| BMR1B HUMAN 000238 PK0 | 31.7 | TKL | 291 | 80 | 1.156 | 1 | 2 | 81 | 1 | 3MDY | | | | | | | | | |
| PIM2 HUMAN Q9P1W9 PK0 | 31.7 | CAMK | 255 | 36 | 0.881 | 1 | 0 | 567 | 1 | 2IWI | | | | | | | | | |
| DMPK HUMAN Q09013 PK0 | 31.6 | AGC | 269 | 122 | 1.157 | 1 | 1 | 134 | 1 | 2VD5 | | | | | | | | | |
| NEK1 HUMAN Q96PY6 PK0 | 31.6 | NEK | 255 | 25 | 1.727 | 2 | 1 | 123 | 2 | 4APC | 4B9D | | | | | | | | |
| MARK1 HUMAN Q9P0L2 PK0 | 31.3 | CAMK | 252 | 38 | 2.653 | 1 | 1 | 133 | 1 | 2HAK | 1232 | | | | | | | | |
| MK12 HUMAN P53778 PK0 | 31.3 | CMGC | 285 | 72 | 0.805 | 1 | 1 | 152 | 1 | 1CM8 | | | | | | | | | |
| STK4 HUMAN Q13043 PK0 | 31.2 | STE | 252 | 75 | 1.338 | 1 | 1 | 139 | 1 | 3COM | | | | | | | | | |
| | | | | | | | 1 | | | | | | | | | | | | |
| M3K9_HUMAN_P80192_PK0 | 30.8 | STE | 269 | 15 | 1.758 | 1 | _ | 143 | 1 | 3DTC | 2000 | 2000 | | | | | | | |
| MK11_HUMAN_Q15759_PK0 | 30.8 | CMGC | 285 | 70 | 0.772 | 3 | 0 | 253 | | 3GC8 | 3GC9 | 3GP0 | | | | | | | |
| CSK22_HUMAN_P19784_PK0 | 30.6 | | 286 | 177 | 0.749 | 2 | 0 | 220 | 2 | | 30FM | | | | | | | | |
| CDK6_HUMAN_Q00534_PK0 | 30.4 | CMGC | 288 | 191 | 0.712 | 12 | 0 | 67 | | 1BI7 | | | | 1X02 | | | | | |
| KC1G3_HUMAN_Q9Y6M4_PK0 | 30.4 | CK1 | 271 | 20 | 1.263 | 9 | 0 | 125 | 9 | 2CHL | | | | 2IZU | | 4G17 | | 4HGS | |
| STK24_HUMAN_Q9Y6E0_PK0 | 30.4 | STE | 251 | 40 | 1.417 | 8 | 0 | 125 | 8 | 3A7F | 3A7G | ЗА7Н | 3A7I | 3A7J | 3CKW | 3CKX | 3ZHP | | |
| PHKG2_HUMAN_P15735_PK0 | 30.2 | CAMK | 268 | 19 | 1.059 | 1 | 1 | 137 | 1 | 2Y7J | | | | | | | | | |
| MP2K4_HUMAN_P45985_PK0 | 30.1 | STE | 266 | 148 | 2.519 | 3 | 0 | 136 | 3 | 3ALN | 3ALO | 3VUT | | | | | | | |
| DAPK3_HUMAN_043293_PK0 | 30.0 | CAMK | 263 | 35 | 0.919 | 4 | 0 | 193 | 4 | 1YRP | 2J90 | 3BHY | 3BQR | | | | | | |
| CLK3_HUMAN_P49761_PK0 | 29.9 | CMGC | 317 | 27 | 1.007 | 5 | 0 | 167 | 5 | 2EU9 | 2EXE | 2WU6 | 2WU7 | 3RAW | | | | | |
| MK07 HUMAN Q13164 PK0 | 29.7 | CMGC | 293 | 114 | 2.059 | 3 | 0 | 147 | 2 | 4IC7 | 4IC8 | | | | | | | | |
| SLK HUMAN Q9H2G2 PK0 | 29.6 | STE | 259 | 28 | 1.861 | 4 | 0 | 162 | 4 | 2J51 | 2JFL | 2JFM | 2UV2 | | | | | | |
| CLK1 HUMAN P49759 PK0 | 29.5 | CMGC | 317 | 34 | 1.214 | 2 | 0 | 245 | 2 | 1Z57 | 2VAG | | | | | | | | |
| KCC2D HUMAN Q13557 PK0 | 29.5 | CAMK | 259 | 63 | 0.801 | 2 | 0 | 237 | 2 | 2VN9 | 2WEL | | | | | | | | |
| AAPK2 HUMAN P54646 PK0 | 29.2 | CAMK | 253 | 125 | 2.146 | 3 | 0 | 126 | 1 | 2H6D | | | | | | | | | |
| DAPK2 HUMAN Q9UIK4 PK0 | 29.1 | CAMK | 263 | 19 | 0.909 | 6 | 0 | 129 | 6 | 1WMK | 129X | 1ZWS | 2A27 | 2A2A | 2CKE | | | | |
| MK13_HUMAN_015264_PK0 | 28.9 | CMGC | 284 | 52 | 0.701 | 4 | 0 | 149 | 4 | 3COI | 4EXU | 4EYJ | 4EYM | | | | | | |
| KC1E HUMAN P49674 PK0 | 28.8 | CK1 | 269 | 111 | 1.026 | 2 | 0 | 170 | 2 | 4HNI | 4HOK | | | | | | | | |
| KCC1A HUMAN Q14012 PK0 | 28.7 | CAMK | 257 | 49 | 0.699 | 4 | 0 | 144 | 4 | 4FG7 | 4FG8 | 4FG9 | 4FGB | | | | | | |
| MP2K6 HUMAN P52564 PK0 | 28.7 | STE | 262 | 98 | 0.956 | 3 | 0 | 142 | 2 | 3FME | 3VN9 | 41 05 | 41 00 | | | | | | |
| EPHA7_HUMAN_Q15375_PK0 | 28.2 | TK | 262 | 42 | 3.237 | 2 | 0 | 139 | 2 | 2REI | 3DKO | | | | | | | | |
| DYRK2 HUMAN Q92630 PK0 | 28.0 | CMGC | 314 | 23 | 1.150 | 3 | 0 | 149 | | 3K2L | 3KVW | 4AZF | | | | | | | |
| MKNK2 HUMAN Q9HBH9 PK0 | 28.0 | CAMK | 305 | 23 | 0.533 | 3 | 0 | 161 | | | 2AC5 | 2HW7 | | | | | | | |
| | | | | | | | 0 | | 4 | | | | 4555 | | | | | | |
| MST4_HUMAN_Q9P289_PK0 | 27.7 | STE | 251 | 29 | No data | 4 | | 134 | | 3GGF | 4FZA | 4FZD | 4FZF | | | | | | |
| EPHA5_HUMAN_P54756_PK0 | 27.2 | TK | 262 | 33 | 4.317 | 1 | 0 | 135 | 1 | 2R2P | | | | | | | | | |
| CLK2_HUMAN_P49760_PK0 | 26.9 | CMGC | 317 | 31 | 1.805 | 1 | 0 | 175 | 1 | 3NR9 | | | | | | | | | |
| MRCKB_HUMAN_Q9Y5S2_PK0 | 26.9 | AGC | 267 | 22 | 2.252 | 2 | 0 | 125 | 2 | 3QFV | 3TKU | | | | | | | | |
| PLK4_HUMAN_O00444_PK0 | 26.8 | | 254 | 42 | 1.548 | 1 | 0 | 170 | 1 | 3COK | | | | | | | | | |
| GAK_HUMAN_014976_PK0 | 26.7 | | 275 | 40 | 1.871 | 1 | 0 | 163 | 1 | 3LL6 | | | | | | | | | |
| ST17B_HUMAN_094768_PK0 | 26.5 | CAMK | 261 | 16 | 0.933 | 2 | 0 | 138 | 2 | 3LM0 | 3LM5 | | | | | | | | |
| MKNK1_HUMAN_Q9BUB5_PK0 | 26.4 | CAMK | 326 | 48 | 0.910 | 1 | 0 | 165 | 1 | 2HW6 | | | | | | | | | |
| EPHA8_HUMAN_P29322_PK0 | 26.3 | TK | 262 | 29 | 2.326 | 1 | 0 | 144 | 1 | 3KUL | | | | | | | | | |
| KCC2G_HUMAN_Q13555_PK0 | 26.3 | CAMK | 259 | 120 | 0.934 | 1 | 0 | 131 | 1 | 2V70 | | | | | | | | | |
| NEK7_HUMAN_Q8TDX7_PK0 | 26.3 | NEK | 266 | 20 | 1.421 | 2 | 0 | 122 | 2 | 2WQM | 2WQN | | | | | | | | |
| KCC4_HUMAN_Q16566_PK0 | 26.2 | CAMK | 255 | 66 | 1.522 | 1 | 0 | 139 | 1 | 2W40 | | | | | | | | | |
| KC1G2_HUMAN_P78368_PK0 | 26.0 | CK1 | 271 | 24 | 0.779 | 1 | 0 | 165 | 1 | 2C47 | | | | | | | | | |
| MARK2_HUMAN_Q7KZI7_PK0 | 25.9 | CAMK | 252 | 67 | 1.403 | 1 | 0 | 131 | 1 | 3IEC | | | | | | | | | |
| KCC2B_HUMAN_Q13554_PK0 | 25.8 | CAMK | 259 | 77 | 0.921 | 1 | 0 | 133 | 1 | ЗВНН | | | | | | | | | |
| KCC1D HUMAN Q8IU85 PK0 | 25.7 | CAMK | 257 | 46 | 1.392 | 1 | 0 | 135 | 1 | 2JC6 | | | | | | | | | |
| PAK7 HUMAN Q9P286 PK0 | 25.7 | STE | 252 | 27 | 2.406 | 1 | 0 | 125 | | 2F57 | | | | | | | | | |
| CDK16 HUMAN Q00536 PK0 | 25.5 | CMGC | 282 | 37 | 0.838 | 1 | 0 | 143 | | 3MTL | | | | | | | | | |
| KC1G1 HUMAN Q9HCP0 PK0 | 25.3 | CK1 | 272 | 21 | 1.013 | 1 | 0 | 138 | 1 | 2CMW | | | | | | | | | |
| PAK6 HUMAN Q9NQU5 PK0 | 25.1 | STE | 252 | 31 | 1.107 | 1 | 0 | 127 | 1 | 2C30 | | | | | | | | | |
| MK06 HUMAN Q16659 PK0 | 25.0 | CMGC | 297 | 27 | 1.238 | 1 | 0 | 123 | | 216L | | | | | | | | | |
| STK16 HUMAN 075716 PK0 | 24.9 | | 274 | 21 | 1.007 | 1 | 0 | 126 | | 2BUJ | | | | | | | | | |
| STK10_HOMAN_0/3/10_FK0 STK25 HUMAN 000506 PK0 | 24.9 | STE | 251 | 34 | 0.705 | 1 | 0 | 126 | | 2XIK | | | | | | | | | |
| PMYT1 HUMAN Q99640 PK0 | 24.7 | 012 | 250 | 28 | 0.700 | 1 | 0 | 125 | | 3P1A | | | | | | | | | |
| KCC1G HUMAN Q96NX5 PK0 | 24.6 | CAMK | 255 | 15 | 1.101 | 1 | 0 | 119 | | 2JAM | | | | | | | | | |
| | 24.0 | OLITIC | 200 | | 1.101 | - | 3 | 217 | _ | - 0 FH-1 | | | | | | | | | |

| OXSR1 HUMAN 095747 PK0 | 24.3 | STE | 275 | 33 | 0.948 | 2 | 0 | 79 | 2 | 2VWI | 3DAK | | | | | |
|------------------------|---------|------|-----|-----|-------|---|---|-----|---|------|------|------|------|------|------|------|
| VRK2 HUMAN Q86Y07 PK0 | 22.5 | CK1 | 291 | 29 | 1.109 | 1 | 0 | 72 | 1 | 2V62 | | | | | | |
| CDKL1 HUMAN Q00532 PK0 | 22.3 | CMGC | 284 | 11 | 1.081 | 1 | 0 | 73 | 1 | 4AGU | | | | | | |
| MARK3_HUMAN_P27448_PK0 | 22.2 | CAMK | 252 | 49 | 1.643 | 2 | 0 | 43 | 2 | 2QNJ | 3FE3 | | | | | |
| HASP_HUMAN_Q8TF76_PK0 | 21.9 | | 315 | 19 | 1.130 | 7 | 0 | 22 | 7 | 2VUW | 2WB8 | 3DLZ | 3E7V | 3F2N | 3FMD | 3IQ7 |
| MAPK3_HUMAN_Q16644_PK0 | 19.2 | CAMK | 261 | 37 | 0.649 | 4 | 0 | 17 | 4 | 3FHR | 3FXW | 3R1N | 3SHE | | | |
| KCC2A_HUMAN_Q9UQM7_PK0 | 14.8 | CAMK | 259 | 144 | 0.869 | 2 | 0 | 6 | 2 | 2VZ6 | 3SOA | | | | | |
| ILK_HUMAN_Q13418_PK0 | 12.9 | TKL | 254 | 209 | 1.031 | 3 | 0 | 2 | 3 | 3KMU | 3KMW | 3REP | | | | |
| VRK1_HUMAN_Q99986_PK0 | 11.7 | CK1 | 281 | 45 | 1.110 | 1 | 1 | 1 | 1 | 30P5 | | | | | | |
| STRAA_HUMAN_Q7RTN6_PK0 | 9.5 | STE | 311 | 24 | 0.812 | 2 | 1 | 0 | 1 | 3GNI | | | | | | |
| VRK3_HUMAN_Q8IV63_PK0 | 3.4 | CK1 | 292 | 9 | 1.586 | 1 | 0 | 0 | 1 | 2JII | | | | | | |
| E2AK3_HUMAN_Q9NZJ5_PK0 | -3881.2 | | 485 | 81 | 1.973 | 2 | 1 | 304 | 1 | 4G31 | | | | | | |
| CDC7_HUMAN_000311_PK0 | -3885.0 | | 517 | 64 | 1.179 | 4 | 0 | 316 | 1 | 4F99 | | | | | | |
| SRPK1_HUMAN_Q96SB4_PK0 | -3889.4 | CMGC | 574 | 66 | 1.712 | 3 | 0 | 128 | 1 | 1WAK | | | | | | |
| SRPK2_HUMAN_P78362_PK0 | -3892.8 | CMGC | 604 | 37 | 1.358 | 1 | 0 | 117 | 1 | 2X7G | | | | | | |
| | | | | | | | | | | | | | | | | |