

Table S1. Relative protein quantification-significantly changing protein candidates across HCPB: HCP groups.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|------------------------|---|------------|-------------|-------------|
| 3504 | sp Q9Y4X5 ARI1_HUMAN | E3 ubiquitin-protein ligase ARIH1 OS=Homo sapiens OX=9606 GN=ARIH1 PE=1 SV=2 | Up | 4.465193071 | 0.03033996 |
| 3241 | sp O95453 PARN_HUMAN | Poly(A)-specific ribonuclease PARN OS=Homo sapiens OX=9606 GN=PARN PE=1 SV=1 | Up | 4.33971043 | 0.036374711 |
| 3539 | sp Q52LW3 IRHG29_HUMAN | Rho GTPase-activating protein 29 OS=Homo sapiens OX=9606 GN=ARHGAP29 PE=1 SV=2 | Up | 3.785179946 | 0.036496479 |
| 1581 | sp P09486 SPRC_HUMAN | SPARC OS=Homo sapiens OX=9606 GN=SPARC PE=1 SV=1 | Up | 3.592328395 | 0.008617558 |
| 2994 | sp P19022 CADH2_HUMAN | Cadherin-2 OS=Homo sapiens OX=9606 GN=CADH2 PE=1 SV=4 | Up | 3.399487808 | 0.002232651 |
| 788 | sp Q9Y376 CAB39_HUMAN | Calcium-binding protein 39 OS=Homo sapiens OX=9606 GN=CAB39 PE=1 SV=1 | Up | 3.368532519 | 0.008543517 |
| 1764 | sp O75348 VATG1_HUMAN | V-type proton ATPase subunit G 1 OS=Homo sapiens OX=9606 GN=ATP6V1G1 PE=1 SV=3 | Up | 3.345915323 | 0.030336071 |
| 2048 | sp Q8N3D4 EHIL1_HUMAN | EH domain-binding protein 1-like protein 1 OS=Homo sapiens OX=9606 GN=EHBP1L1 PE=1 SV=2 | Up | 3.32242134 | 0.002160381 |
| 1389 | sp Q969U7 PSMG2_HUMAN | Proteasome assembly chaperone 2 OS=Homo sapiens OX=9606 GN=PSMG2 PE=1 SV=1 | Up | 3.181178365 | 0.038866039 |
| 963 | sp P68032 ACTC_HUMAN | Actin, alpha cardiac muscle 1 OS=Homo sapiens OX=9606 GN=ACTC1 PE=1 SV=1 | Up | 3.09537324 | 0.03095394 |
| 30 | sp P13639 EF2_HUMAN | Elongation factor 2 OS=Homo sapiens OX=9606 GN=EEF2 PE=1 SV=4 | Up | 2.981714873 | 3.28616E-07 |
| 2596 | sp Q9H4A6 GOLP3_HUMAN | Golgi phosphoprotein 3 OS=Homo sapiens OX=9606 GN=GOLPH3 PE=1 SV=1 | Up | 2.887284104 | 0.032723591 |
| 61 | sp P50454 SERPH_HUMAN | Serpin H1 OS=Homo sapiens OX=9606 GN=SERPINH1 PE=1 SV=2 | Up | 2.750424247 | 0.000111161 |
| 399 | sp P49591 ISYSC_HUMAN | Serine--tRNA ligase, cytoplasmic OS=Homo sapiens OX=9606 GN=SARS PE=1 SV=3 | Up | 2.742290385 | 0.000539484 |
| 2619 | sp Q13671 RIN1_HUMAN | Ras and Rab interactor 1 OS=Homo sapiens OX=9606 GN=RIN1 PE=1 SV=4 | Up | 2.686647108 | 0.002886786 |
| 415 | sp P08243 ASNS_HUMAN | Asparagine synthetase [glutamine-hydrolyzing] OS=Homo sapiens OX=9606 GN=ASNS PE=1 SV=4 | Up | 2.681109375 | 0.01116749 |
| 1206 | sp P00492 HPRT_HUMAN | Hypoxanthine-guanine phosphoribosyltransferase OS=Homo sapiens OX=9606 GN=HPRT1 PE=1 SV=2 | Up | 2.487120475 | 0.03574096 |
| 222 | sp P08123 CO1A2_HUMAN | Collagen alpha-2(I) chain OS=Homo sapiens OX=9606 GN=COL1A2 PE=1 SV=7 | Up | 2.483058926 | 0.000129648 |
| 333 | sp Q14573 ITPR3_HUMAN | Inositol 1,4,5-trisphosphate receptor type 3 OS=Homo sapiens OX=9606 GN=ITPR3 PE=1 SV=2 | Up | 2.380801663 | 0.000131943 |
| 40 | sp P07355 ANXA2_HUMAN | Annexin A2 OS=Homo sapiens OX=9606 GN=ANXA2 PE=1 SV=2 | Up | 2.373278757 | 0.000234437 |
| 156 | sp O00410 IPO5_HUMAN | Importin-5 OS=Homo sapiens OX=9606 GN=IPO5 PE=1 SV=4 | Up | 2.341550028 | 0.006258828 |
| 401 | sp P08240 SRPRA_HUMAN | Signal recognition particle receptor subunit alpha OS=Homo sapiens OX=9606 GN=SRPRA PE=1 SV=2 | Up | 2.292651733 | 0.01109283 |
| 71 | sp P07814 SYEP_HUMAN | Bifunctional glutamate/proline--tRNA ligase OS=Homo sapiens OX=9606 GN=EPRS PE=1 SV=5 | Up | 2.268764189 | 4.78009E-05 |
| 266 | sp Q9Y617 SERC_HUMAN | Phosphoserine aminotransferase OS=Homo sapiens OX=9606 GN=PSAT1 PE=1 SV=2 | Up | 2.246177703 | 0.001910891 |
| 1015 | sp P06748 NPM_HUMAN | Nucleophosmin OS=Homo sapiens OX=9606 GN=NPM1 PE=1 SV=2 | Up | 2.236765971 | 0.036769491 |
| 142 | sp P41250 GARS_HUMAN | Glycine--tRNA ligase OS=Homo sapiens OX=9606 GN=GARS PE=1 SV=3 | Up | 2.23648241 | 0.045942228 |
| 152 | sp P54886 P5CS_HUMAN | Delta-1-pyrroline-5-carboxylate synthase OS=Homo sapiens OX=9606 GN=ALDH18A1 PE=1 SV=2 | Up | 2.233110517 | 0.029873351 |
| 179 | sp O43175 SERA_HUMAN | D-3-phosphoglycerate dehydrogenase OS=Homo sapiens OX=9606 GN=PHGDH PE=1 SV=4 | Up | 2.200972257 | 0.01346197 |
| 388 | sp P04181 OAT_HUMAN | Ornithine aminotransferase, mitochondrial OS=Homo sapiens OX=9606 GN=OAT PE=1 SV=1 | Up | 2.146674018 | 0.007613577 |
| 100 | sp Q14152 EIF3A_HUMAN | Eukaryotic translation initiation factor 3 subunit A OS=Homo sapiens OX=9606 GN=EIF3A PE=1 SV=1 | Up | 2.143169708 | 0.008356921 |
| 34 | sp P11021 BIP_HUMAN | Endoplasmic reticulum chaperone BiP OS=Homo sapiens OX=9606 GN=HSPA5 PE=1 SV=2 | Up | 2.140430266 | 0.001238583 |
| 508 | sp Q96D15 RCN3_HUMAN | Reticulocalbin-3 OS=Homo sapiens OX=9606 GN=RCN3 PE=1 SV=1 | Up | 2.130955143 | 0.002692377 |
| 711 | sp Q96AG4 LRC59_HUMAN | Leucine-rich repeat-containing protein 59 OS=Homo sapiens OX=9606 GN=LRRRC59 PE=1 SV=1 | Up | 2.122447588 | 0.0120502 |
| 67 | sp P52272 HNRPM_HUMAN | Heterogeneous nuclear ribonucleoprotein M OS=Homo sapiens OX=9606 GN=HNRNPM PE=1 SV=3 | Up | 2.121505309 | 0.02518332 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|------------------------|---|------------|-------------|-------------|
| 17 | spIQ00610 CLH1_HUMAN | Clathrin heavy chain 1 OS=Homo sapiens OX=9606 GN=CLTC PE=1 SV=5 | Up | 2.074931497 | 0.000330528 |
| 1238 | spIP42766 RL35_HUMAN | 60S ribosomal protein L35 OS=Homo sapiens OX=9606 GN=RPL35 PE=1 SV=2 | Up | 2.059539679 | 0.024340579 |
| 371 | spIQ16658 FSCN1_HUMAN | Fascin OS=Homo sapiens OX=9606 GN=FSCN1 PE=1 SV=3 | Up | 2.043557773 | 0.0151894 |
| 873 | spIP0C0L4 CO4A_HUMAN | Complement C4-A OS=Homo sapiens OX=9606 GN=C4A PE=1 SV=2 | Up | 2.020110296 | 0.008506326 |
| 162 | spIP27708 PYR1_HUMAN | CAD protein OS=Homo sapiens OX=9606 GN=CAD PE=1 SV=3 | Up | 2.016854025 | 0.0194874 |
| 681 | spIP28066 PSA5_HUMAN | Proteasome subunit alpha type-5 OS=Homo sapiens OX=9606 GN=PSMA5 PE=1 SV=3 | Up | 2.001532777 | 0.037744731 |
| 1287 | spIQ14137 BOP1_HUMAN | Ribosome biogenesis protein BOP1 OS=Homo sapiens OX=9606 GN=BOP1 PE=1 SV=2 | Up | 1.978508247 | 0.048012178 |
| 286 | spIP45974 UBP5_HUMAN | Ubiquitin carboxyl-terminal hydrolase 5 OS=Homo sapiens OX=9606 GN=USP5 PE=1 SV=2 | Up | 1.952135479 | 0.01704452 |
| 46 | spIP11142 HSP7C_HUMAN | Heat shock cognate 71 kDa protein OS=Homo sapiens OX=9606 GN=HSPA8 PE=1 SV=1 | Up | 1.944531324 | 0.000415664 |
| 470 | spIO60271 JIP4_HUMAN | C-Jun-amino-terminal kinase-interacting protein 4 OS=Homo sapiens OX=9606 GN=SPAG9 PE=1 SV=4 | Up | 1.936912553 | 0.004391838 |
| 846 | spIP46379 BAG6_HUMAN | Large proline-rich protein BAG6 OS=Homo sapiens OX=9606 GN=BAG6 PE=1 SV=2 | Up | 1.930431694 | 0.046615541 |
| 2546 | spIO43294 TGFB1_HUMAN | Transforming growth factor beta-1-induced transcript 1 protein OS=Homo sapiens OX=9606 GN=TGFB1 PE=1 SV=2 | Up | 1.92948662 | 0.037442591 |
| 402 | spIO15460 P4HA2_HUMAN | Prolyl 4-hydroxylase subunit alpha-2 OS=Homo sapiens OX=9606 GN=P4HA2 PE=1 SV=1 | Up | 1.924992442 | 0.005524759 |
| 29 | spIP08133 ANXA6_HUMAN | Annexin A6 OS=Homo sapiens OX=9606 GN=ANXA6 PE=1 SV=3 | Up | 1.916717273 | 0.00013933 |
| 324 | spIP18669 PGAM1_HUMAN | Phosphoglycerate mutase 1 OS=Homo sapiens OX=9606 GN=PGAM1 PE=1 SV=2 | Up | 1.90583672 | 0.000641185 |
| 716 | spIQ13045 FLJ11_HUMAN | Protein flightless-1 homolog OS=Homo sapiens OX=9606 GN=FLJ11 PE=1 SV=2 | Up | 1.894038832 | 0.029716261 |
| 215 | spIQ92598 HS105_HUMAN | Heat shock protein 105 kDa OS=Homo sapiens OX=9606 GN=HSPH1 PE=1 SV=1 | Up | 1.885942366 | 0.000317772 |
| 1505 | spIQ9Y281 COF2_HUMAN | Cofilin-2 OS=Homo sapiens OX=9606 GN=CFL2 PE=1 SV=1 | Up | 1.885823962 | 0.01342565 |
| 39 | spIQ00341 VIGLN_HUMAN | Vigilin OS=Homo sapiens OX=9606 GN=HDLBP PE=1 SV=2 | Up | 1.87064509 | 0.000212131 |
| 238 | spIO60568 PLOD3_HUMAN | Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3 OS=Homo sapiens OX=9606 GN=PLOD3 PE=1 SV=1 | Up | 1.869750108 | 0.0386764 |
| 382 | spIP08865 IRSSA_HUMAN | 40S ribosomal protein SA OS=Homo sapiens OX=9606 GN=RPSA PE=1 SV=4 | Up | 1.838133027 | 0.03054031 |
| 202 | spIQ14974 IMB1_HUMAN | Importin subunit beta-1 OS=Homo sapiens OX=9606 GN=KPNB1 PE=1 SV=2 | Up | 1.825455535 | 0.01483602 |
| 81 | spIP41252 SYIC_HUMAN | Isoleucine--tRNA ligase, cytoplasmic OS=Homo sapiens OX=9606 GN=IARS PE=1 SV=2 | Up | 1.809601146 | 0.001500391 |
| 986 | spIP46776 RL27A_HUMAN | 60S ribosomal protein L27a OS=Homo sapiens OX=9606 GN=RPL27A PE=1 SV=2 | Up | 1.808654859 | 0.039487489 |
| 41 | spIQ9P2E9 RRBP1_HUMAN | Ribosome-binding protein 1 OS=Homo sapiens OX=9606 GN=RRBP1 PE=1 SV=5 | Up | 1.797102152 | 0.005081768 |
| 130 | spIP50991 ITCPD_HUMAN | T-complex protein 1 subunit delta OS=Homo sapiens OX=9606 GN=CC14 PE=1 SV=4 | Up | 1.787265689 | 0.01191205 |
| 883 | spIQ13085 ACACA_HUMAN | Acetyl-CoA carboxylase 1 OS=Homo sapiens OX=9606 GN=ACACA PE=1 SV=2 | Up | 1.774891602 | 0.00026183 |
| 7 | spIQ9Y490 TLN1_HUMAN | Talin-1 OS=Homo sapiens OX=9606 GN=TLN1 PE=1 SV=3 | Up | 1.773908912 | 0.000269464 |
| 144 | spIP54136 SYRC_HUMAN | Arginine--tRNA ligase, cytoplasmic OS=Homo sapiens OX=9606 GN=RARS PE=1 SV=2 | Up | 1.768942563 | 0.000154463 |
| 15 | spIP12814 ACTN1_HUMAN | Alpha-actinin-1 OS=Homo sapiens OX=9606 GN=ACTN1 PE=1 SV=2 | Up | 1.765691286 | 0.000171666 |
| 442 | spIP02452 CO1A1_HUMAN | Collagen alpha-1(I) chain OS=Homo sapiens OX=9606 GN=COL1A1 PE=1 SV=5 | Up | 1.759943729 | 0.003543627 |
| 47 | spIP68104 EEF1A1_HUMAN | Elongation factor 1--alpha 1 OS=Homo sapiens OX=9606 GN=EEF1A1 PE=1 SV=1 | Up | 1.757113969 | 0.003833581 |
| 749 | spIP20908 CO5A1_HUMAN | Collagen alpha-1(V) chain OS=Homo sapiens OX=9606 GN=COL5A1 PE=1 SV=3 | Up | 1.752259064 | 0.01469139 |
| 143 | spIP08238 HSP90B_HUMAN | Heat shock protein HSP 90-beta OS=Homo sapiens OX=9606 GN=HSP90AB1 PE=1 SV=4 | Up | 1.714496131 | 0.01279122 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|------------------------|--|------------|-------------|-------------|
| 867 | sp Q13740 CDI66_HUMAN | CDI66 antigen OS=Homo sapiens OX=9606 GN=ALCAM PE=1 SV=2 | Up | 1.712335365 | 0.01529032 |
| 1074 | sp O95552 ATG7_HUMAN | Ubiquitin-like modifier-activating enzyme ATG7 OS=Homo sapiens OX=9606 GN=ATG7 PE=1 SV=1 | Up | 1.700171657 | 0.036438908 |
| 573 | sp P62277 IRS13_HUMAN | 40S ribosomal protein S13 OS=Homo sapiens OX=9606 GN=RPS13 PE=1 SV=2 | Up | 1.698202853 | 0.000661186 |
| 334 | sp Q15746 MYLK_HUMAN | Myosin light chain kinase, smooth muscle OS=Homo sapiens OX=9606 GN=MYLK PE=1 SV=4 | Up | 1.6954145 | 0.036581788 |
| 304 | sp P07737 PROF1_HUMAN | Profilin-1 OS=Homo sapiens OX=9606 GN=PFN1 PE=1 SV=2 | Up | 1.684753908 | 0.009641522 |
| 35 | sp P07237 PDIA1_HUMAN | Protein disulfide-isomerase OS=Homo sapiens OX=9606 GN=P4HB PE=1 SV=3 | Up | 1.675353628 | 0.002737582 |
| 151 | sp Q9BSJ8 ESYT1_HUMAN | Extended synaptotagmin-1 OS=Homo sapiens OX=9606 GN=ESYT1 PE=1 SV=1 | Up | 1.670485115 | 0.02964364 |
| 577 | sp O43854 EDIL3_HUMAN | EGF-like repeat and discoidin I-like domain-containing protein 3 OS=Homo sapiens OX=9606 GN=EDIL3 PE=1 SV=1 | Up | 1.663778977 | 0.025474651 |
| 781 | sp Q14669 TRIPC_HUMAN | E3 ubiquitin-protein ligase TRIP12 OS=Homo sapiens OX=9606 GN=TRIP12 PE=1 SV=1 | Up | 1.662392131 | 0.03049555 |
| 271 | sp P06756 ITAV_HUMAN | Integrin alpha-V OS=Homo sapiens OX=9606 GN=ITGAV PE=1 SV=2 | Up | 1.655100884 | 0.027857309 |
| 121 | sp P13674 P4HA1_HUMAN | Prolyl 4-hydroxylase subunit alpha-1 OS=Homo sapiens OX=9606 GN=P4HA1 PE=1 SV=2 | Up | 1.65482054 | 0.01844353 |
| 291 | sp Q15942 ZYX_HUMAN | Zyxin OS=Homo sapiens OX=9606 GN=ZYX PE=1 SV=1 | Up | 1.647344956 | 0.002977726 |
| 612 | sp P39656 OIST48_HUMAN | Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit OS=Homo sapiens OX=9606 GN=DDOST PE=1 SV=4 | Up | 1.645677787 | 0.006203016 |
| 361 | sp Q9C0C2 TB182_HUMAN | 182 kDa tankyrase-1-binding protein OS=Homo sapiens OX=9606 GN=TNKS1BP1 PE=1 SV=4 | Up | 1.645222997 | 0.034888241 |
| 2583 | sp Q13151 IROA0_HUMAN | Heterogeneous nuclear ribonucleoprotein A0 OS=Homo sapiens OX=9606 GN=HNRNPA0 PE=1 SV=1 | Up | 1.642665624 | 0.04536942 |
| 1770 | sp O95219 SNX4_HUMAN | Sorting nexin-4 OS=Homo sapiens OX=9606 GN=SNX4 PE=1 SV=1 | Up | 1.622703645 | 0.026243551 |
| 6 | sp P21333 FLNA_HUMAN | Filamin-A OS=Homo sapiens OX=9606 GN=FLNA PE=1 SV=4 | Up | 1.604018752 | 7.40906E-06 |
| 967 | sp Q14157 UBP2L_HUMAN | Ubiquitin-associated protein 2-like OS=Homo sapiens OX=9606 GN=UBAP2L PE=1 SV=2 | Up | 1.596111395 | 0.018741591 |
| 38 | sp P53621 COPA_HUMAN | Coatmer subunit alpha OS=Homo sapiens OX=9606 GN=COPA PE=1 SV=2 | Up | 1.59300121 | 0.01806823 |
| 310 | sp P12270 TPR_HUMAN | Nucleoprotein TPR OS=Homo sapiens OX=9606 GN=TPR PE=1 SV=3 | Up | 1.586102033 | 0.01341254 |
| 412 | sp Q07866 KLC1_HUMAN | Kinesin light chain 1 OS=Homo sapiens OX=9606 GN=KLC1 PE=1 SV=2 | Up | 1.583642929 | 0.017585261 |
| 315 | sp Q92538 GBF1_HUMAN | Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1 OS=Homo sapiens OX=9606 GN=GBF1 PE=1 SV=2 | Up | 1.583525452 | 0.01378039 |
| 1400 | sp O43172 PRP4_HUMAN | U4/U6 small nuclear ribonucleoprotein Prp4 OS=Homo sapiens OX=9606 GN=PRPF4 PE=1 SV=2 | Up | 1.580183614 | 0.01483686 |
| 63 | sp P46821 MAP1B_HUMAN | Microtubule-associated protein 1B OS=Homo sapiens OX=9606 GN=MAP1B PE=1 SV=2 | Up | 1.57357181 | 0.000593537 |
| 2237 | sp P42574 CASP3_HUMAN | Caspase-3 OS=Homo sapiens OX=9606 GN=CASP3 PE=1 SV=2 | Up | 1.570808065 | 0.033126961 |
| 1864 | sp O15498 YKT6_HUMAN | Synaptobrevin homolog YKT6 OS=Homo sapiens OX=9606 GN=YKT6 PE=1 SV=1 | Up | 1.569206833 | 0.03797454 |
| 3 | sp P35579 MYH9_HUMAN | Myosin-9 OS=Homo sapiens OX=9606 GN=MYH9 PE=1 SV=4 | Up | 1.568001451 | 4.502E-07 |
| 92 | sp P11940 PABP1_HUMAN | Polyadenylate-binding protein 1 OS=Homo sapiens OX=9606 GN=PABPC1 PE=1 SV=2 | Up | 1.566812494 | 0.03755872 |
| 476 | sp P55884 EIF3B_HUMAN | Eukaryotic translation initiation factor 3 subunit B OS=Homo sapiens OX=9606 GN=EIF3B PE=1 SV=3 | Up | 1.566410303 | 0.020350071 |
| 506 | sp O14579 COPE_HUMAN | Coatmer subunit epsilon OS=Homo sapiens OX=9606 GN=COPE PE=1 SV=3 | Up | 1.55570423 | 0.032848839 |
| 1421 | sp P07942 LAMB1_HUMAN | Laminin subunit beta-1 OS=Homo sapiens OX=9606 GN=LAMB1 PE=1 SV=2 | Up | 1.555686943 | 0.049465939 |
| 210 | sp Q8NBS9 TXND5_HUMAN | Thioredoxin domain-containing protein 5 OS=Homo sapiens OX=9606 GN=TXND5 PE=1 SV=2 | Up | 1.553720856 | 0.021255109 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|-----------------------|--|------------|-------------|-------------|
| 268 | spIP301532AAA_HUMAN | Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform OS=Homo sapiens OX=9606 GN=PPP2R1A PE=1 SV=4 | Up | 1.54839567 | 0.022408821 |
| 96 | spIQ02809PLOD1_HUMAN | Collagen-lysine,2-oxoglutarate 5-dioxygenase 1 OS=Homo sapiens OX=9606 GN=PLOD1 PE=1 SV=2 | Up | 1.548103343 | 0.006172498 |
| 262 | spIP37802TAGL2_HUMAN | Transgelin-2 OS=Homo sapiens OX=9606 GN=TAGLN2 PE=1 SV=3 | Up | 1.542744626 | 0.01310666 |
| 31 | spIP02545ILMNA_HUMAN | Prelamin-A/C OS=Homo sapiens OX=9606 GN=LMNA PE=1 SV=1 | Up | 1.542598716 | 0.003808074 |
| 112 | spIP26640SYVC_HUMAN | Valine--tRNA ligase OS=Homo sapiens OX=9606 GN=VARS PE=1 SV=4 | Up | 1.538191305 | 0.038797311 |
| 66 | spIQ04637IIF4G1_HUMAN | Eukaryotic translation initiation factor 4 gamma 1 OS=Homo sapiens OX=9606 GN=EIF4G1 PE=1 SV=4 | Up | 1.535833661 | 0.01118684 |
| 122 | spIO60763IUSO1_HUMAN | General vesicular transport factor p115 OS=Homo sapiens OX=9606 GN=USO1 PE=1 SV=2 | Up | 1.522839859 | 0.01677626 |
| 51 | spIQ14697IGANAB_HUMAN | Neutral alpha-glucosidase AB OS=Homo sapiens OX=9606 GN=GANAB PE=1 SV=3 | Up | 1.512628788 | 0.002875937 |
| 83 | spIQ8WW1ILMO7_HUMAN | LIM domain only protein 7 OS=Homo sapiens OX=9606 GN=LMO7 PE=1 SV=3 | Up | 1.507514584 | 0.00285582 |
| 86 | spIP08758IANXA5_HUMAN | Annexin A5 OS=Homo sapiens OX=9606 GN=ANXA5 PE=1 SV=2 | Up | 1.481465968 | 0.019104769 |
| 91 | spIQ01995TAGL_HUMAN | Transgelin OS=Homo sapiens OX=9606 GN=TAGLN PE=1 SV=4 | Up | 1.471149514 | 0.001285047 |
| 301 | spIP15924IDESP_HUMAN | Desmoplakin OS=Homo sapiens OX=9606 GN=DSP PE=1 SV=3 | Up | 1.468830725 | 0.03446468 |
| 49 | spIQ15075IEEA1_HUMAN | Early endosome antigen 1 OS=Homo sapiens OX=9606 GN=EEA1 PE=1 SV=2 | Up | 1.468806843 | 0.0248676 |
| 13 | spIQ01082ISPTB2_HUMAN | Spectrin beta chain, non-erythrocytic 1 OS=Homo sapiens OX=9606 GN=SPTBN1 PE=1 SV=2 | Up | 1.467929562 | 0.026767701 |
| 259 | spIP61247IRS3A_HUMAN | 40S ribosomal protein S3a OS=Homo sapiens OX=9606 GN=RPS3A PE=1 SV=2 | Up | 1.461952213 | 0.02243693 |
| 1392 | spIQ9BYD1IRM13_HUMAN | 39S ribosomal protein L13, mitochondrial OS=Homo sapiens OX=9606 GN=MRPL13 PE=1 SV=1 | Up | 1.46032518 | 0.008638367 |
| 106 | spIQ13200IPSM2_HUMAN | 26S proteasome non-ATPase regulatory subunit 2 OS=Homo sapiens OX=9606 GN=PSMD2 PE=1 SV=3 | Up | 1.457121439 | 0.026966641 |
| 365 | spIP23526ISAHH_HUMAN | Adenosylhomocysteinase OS=Homo sapiens OX=9606 GN=AHCY PE=1 SV=4 | Up | 1.45519293 | 0.03089013 |
| 568 | spIQ16222IUAP1_HUMAN | UDP-N-acetylhexosamine pyrophosphorylase OS=Homo sapiens OX=9606 GN=UAP1 PE=1 SV=3 | Up | 1.452013875 | 0.046447251 |
| 3348 | spIQ9Y496IKIF3A_HUMAN | Kinesin-like protein KIF3A OS=Homo sapiens OX=9606 GN=KIF3A PE=1 SV=4 | Up | 1.448864602 | 0.037362389 |
| 147 | spIQ9H4M9IEHDI_HUMAN | EH domain-containing protein 1 OS=Homo sapiens OX=9606 GN=EHD1 PE=1 SV=2 | Up | 1.438589395 | 0.032502089 |
| 790 | spIQ8W7W3ICOG1_HUMAN | Conserved oligomeric Golgi complex subunit 1 OS=Homo sapiens OX=9606 GN=COG1 PE=1 SV=1 | Up | 1.433778223 | 0.038107261 |
| 239 | spIP47897ISYQ_HUMAN | Glutamine--tRNA ligase OS=Homo sapiens OX=9606 GN=QARS PE=1 SV=1 | Up | 1.433250806 | 0.022754921 |
| 604 | spIQ9UQ35ISRRM2_HUMAN | Serine/arginine repetitive matrix protein 2 OS=Homo sapiens OX=9606 GN=SRRM2 PE=1 SV=2 | Up | 1.430206522 | 0.008991379 |
| 2317 | spIQ99996IAKAP9_HUMAN | A-kinase anchor protein 9 OS=Homo sapiens OX=9606 GN=AKAP9 PE=1 SV=4 | Up | 1.425102368 | 0.002512239 |
| 1283 | spIQ13442IHAP28_HUMAN | 28 kDa heat- and acid-stable phosphoprotein OS=Homo sapiens OX=9606 GN=HSP28 PE=1 SV=1 | Up | 1.424958298 | 0.01004677 |
| 320 | spIP48637IGSHB_HUMAN | Glutathione synthetase OS=Homo sapiens OX=9606 GN=GSS PE=1 SV=1 | Up | 1.419173119 | 0.038509209 |
| 705 | spIP54802IANAG_HUMAN | Alpha-N-acetylglucosaminidase OS=Homo sapiens OX=9606 GN=ANAG PE=1 SV=2 | Up | 1.410894929 | 0.016542081 |
| 630 | spIP61201ICSN2_HUMAN | COP9 signalosome complex subunit 2 OS=Homo sapiens OX=9606 GN=COPS2 PE=1 SV=1 | Up | 1.406412689 | 0.047161002 |
| 624 | spIQ6P996IPDXD1_HUMAN | Pyridoxal-dependent decarboxylase domain-containing protein 1 OS=Homo sapiens OX=9606 GN=PDXDC1 PE=1 SV=2 | Up | 1.394519397 | 0.03235304 |
| 1042 | spIQ81VF2IAHNK2_HUMAN | Protein AHNAK2 OS=Homo sapiens OX=9606 GN=AHNAK2 PE=1 SV=2 | Up | 1.388240526 | 0.04199475 |
| 3007 | spIO00418IEF2K_HUMAN | Eukaryotic elongation factor 2 kinase OS=Homo sapiens OX=9606 GN=EEF2K PE=1 SV=2 | Up | 1.379687646 | 0.048226401 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|------------------------|--|------------|-------------|-------------|
| 26 | spIP14625IENPL_HUMAN | Endoplasmic reticulum protein 42 homolog OS=Homo sapiens OX=9606 GN=HSP90B1 PE=1 SV=1 | Up | 1.377585848 | 0.000407895 |
| 148 | spIP19338INUCL_HUMAN | Nucleolin OS=Homo sapiens OX=9606 GN=NCL PE=1 SV=3 | Up | 1.374841886 | 0.01908857 |
| 1386 | spIQ86V/S8HOOOK3_HUMAN | Protein Hook homolog 3 OS=Homo sapiens OX=9606 GN=HOOK3 PE=1 SV=2 | Up | 1.365199124 | 0.04337601 |
| 696 | spIP62906IRL10A_HUMAN | 60S ribosomal protein L10a OS=Homo sapiens OX=9606 GN=RPL10A PE=1 SV=2 | Up | 1.364892661 | 0.025782671 |
| 661 | spIP19623ISPEE_HUMAN | Spermidine synthase OS=Homo sapiens OX=9606 GN=SRM PE=1 SV=1 | Up | 1.360415478 | 0.0007288 |
| 1704 | spIP60953ICDC42_HUMAN | Cell division control protein 42 homolog OS=Homo sapiens OX=9606 GN=CDC42 PE=1 SV=2 | Up | 1.357240768 | 0.02080166 |
| 1099 | spIQ92791ISC65_HUMAN | Endoplasmic reticulum protein SC65 OS=Homo sapiens OX=9606 GN=P3H4 PE=1 SV=1 | Up | 1.355841886 | 0.01126453 |
| 727 | spIP83731IRL24_HUMAN | 60S ribosomal protein L24 OS=Homo sapiens OX=9606 GN=RPL24 PE=1 SV=1 | Up | 1.354730936 | 0.03129746 |
| 592 | spIP39019IRS19_HUMAN | 40S ribosomal protein S19 OS=Homo sapiens OX=9606 GN=RPS19 PE=1 SV=2 | Up | 1.353304853 | 0.01100681 |
| 18 | spIQ92616GCN1_HUMAN | eIF-2-alpha kinase activator GCN1 OS=Homo sapiens OX=9606 GN=GCN1 PE=1 SV=6 | Up | 1.346761647 | 0.01172209 |
| 201 | spIO75643IU520_HUMAN | U5 small nuclear ribonucleoprotein 200 kDa helicase OS=Homo sapiens OX=9606 GN=SNRNP200 PE=1 SV=2 | Up | 1.343361936 | 0.01528325 |
| 133 | spIQ01518CAP1_HUMAN | Adenylyl cyclase-associated protein 1 OS=Homo sapiens OX=9606 GN=CAP1 PE=1 SV=5 | Up | 1.329666709 | 0.007179512 |
| 140 | spIQ86UP2IKTN1_HUMAN | Kinectin OS=Homo sapiens OX=9606 GN=KTN1 PE=1 SV=1 | Up | 1.311830818 | 0.033894941 |
| 27 | spIP49327IFAS_HUMAN | Fatty acid synthase OS=Homo sapiens OX=9606 GN=FASN PE=1 SV=3 | Up | 1.311599651 | 0.005996005 |
| 117 | spIQ05682CALD1_HUMAN | Caldesmon OS=Homo sapiens OX=9606 GN=CALD1 PE=1 SV=3 | Up | 1.299915648 | 0.02183846 |
| 854 | spIQ92626PDXN_HUMAN | Peroxidase homolog OS=Homo sapiens OX=9606 GN=PDXN PE=1 SV=2 | Up | 1.296683467 | 0.030009661 |
| 1025 | spIQ2M389WASC4_HUMAN | WASH complex subunit 4 OS=Homo sapiens OX=9606 GN=WASHC4 PE=1 SV=2 | Up | 1.287812076 | 0.01567287 |
| 217 | spIP48643TCPE_HUMAN | T-complex protein 1 subunit epsilon OS=Homo sapiens OX=9606 GN=CCT5 PE=1 SV=1 | Up | 1.281729168 | 0.041799322 |
| 149 | spIQ96AY3IFKB10_HUMAN | Peptidyl-prolyl cis-trans isomerase FKBP10 OS=Homo sapiens OX=9606 GN=FKBP10 PE=1 SV=1 | Up | 1.278498225 | 0.003126384 |
| 59 | spIO43707ACTN4_HUMAN | Alpha-actinin-4 OS=Homo sapiens OX=9606 GN=ACTN4 PE=1 SV=2 | Up | 1.27833742 | 0.007888998 |
| 1953 | spIP25787IPSA2_HUMAN | Proteasome subunit alpha type-2 OS=Homo sapiens OX=9606 GN=PSMA2 PE=1 SV=2 | Up | 1.268688264 | 0.03727863 |
| 318 | spIA5YKK6CNOT1_HUMAN | CCR4-NOT transcription complex subunit 1 OS=Homo sapiens OX=9606 GN=CNOT1 PE=1 SV=2 | Up | 1.260855885 | 0.016391929 |
| 204 | spIQ14789GOGB1_HUMAN | Golgin subfamily B member 1 OS=Homo sapiens OX=9606 GN=GOLGB1 PE=1 SV=2 | Up | 1.255785962 | 0.00285461 |
| 902 | spIQ13439GOGA4_HUMAN | Golgin subfamily A member 4 OS=Homo sapiens OX=9606 GN=GOLGA4 PE=1 SV=1 | Up | 1.255523644 | 0.033196341 |
| 828 | spIP55263ADK_HUMAN | Adenosine kinase OS=Homo sapiens OX=9606 GN=ADK PE=1 SV=2 | Up | 1.250768809 | 0.031422041 |
| 810 | spIQ9BTV4TMM43_HUMAN | Transmembrane protein 43 OS=Homo sapiens OX=9606 GN=TMEM43 PE=1 SV=1 | Up | 1.250640042 | 0.030776629 |
| 426 | spIQ13263ITIF1B_HUMAN | Transcription intermediary factor 1-beta OS=Homo sapiens OX=9606 GN=TRIM28 PE=1 SV=5 | Up | 1.250350957 | 0.02829024 |
| 73 | spIP36578IRL4_HUMAN | 60S ribosomal protein L4 OS=Homo sapiens OX=9606 GN=RPL4 PE=1 SV=5 | Up | 1.249310758 | 0.045947392 |
| 2191 | spIQ81VD9INUDC3_HUMAN | NudC domain-containing protein 3 OS=Homo sapiens OX=9606 GN=NUDC3 PE=1 SV=3 | Up | 1.243854659 | 0.047554851 |
| 213 | spIP27797ICALR_HUMAN | Calreticulin OS=Homo sapiens OX=9606 GN=CALR PE=1 SV=1 | Up | 1.236653072 | 0.01005375 |
| 270 | spIO60716CTND1_HUMAN | Catenin delta-1 OS=Homo sapiens OX=9606 GN=CTNND1 PE=1 SV=1 | Up | 1.230000929 | 0.04548154 |
| 684 | spIQ16543CDC37_HUMAN | Hsp90 co-chaperone Cdc37 OS=Homo sapiens OX=9606 GN=CDC37 PE=1 SV=1 | Up | 1.229627845 | 0.048625961 |
| 354 | spIO14617AP3D1_HUMAN | AP-3 complex subunit delta-1 OS=Homo sapiens OX=9606 GN=AP3D1 PE=1 SV=1 | Up | 1.227797321 | 0.03018919 |
| 900 | spIQ14738I2A5D_HUMAN | Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform OS=Homo sapiens OX=9606 GN=PPP2R5D PE=1 SV=1 | Up | 1.225416417 | 0.030867061 |
| 730 | spIQ9NPNQ8IRIC8A_HUMAN | Synembryn-A OS=Homo sapiens OX=9606 GN=RIC8A PE=1 SV=3 | Up | 1.221058346 | 0.02866959 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|------------------------|---|------------|--------------|-------------|
| 11 | spIQ13813 SPTN1_HUMAN | Spectrin alpha chain, non-erythrocytic 1 OS=Homo sapiens OX=9606 GN=SPTAN1 PE=1 SV=3 | Up | 1.220554862 | 0.024515459 |
| 84 | spIQ99715 COCA1_HUMAN | Collagen alpha-1(XII) chain OS=Homo sapiens OX=9606 GN=COL12A1 PE=1 SV=2 | Up | 1.219441266 | 0.02711351 |
| 2524 | spIP533651 ARFP2_HUMAN | Arfapin-2 OS=Homo sapiens OX=9606 GN=ARFP2 PE=1 SV=1 | Up | 1.203459989 | 0.042112019 |
| 139 | spIQ03001 DYST_HUMAN | Dystonin OS=Homo sapiens OX=9606 GN=DST PE=1 SV=4 | Up | 1.203192743 | 0.024048399 |
| 971 | spIO75962 TRIO_HUMAN | Triple functional domain protein OS=Homo sapiens OX=9606 GN=TRIO PE=1 SV=2 | Up | 1.201366187 | 0.0413162 |
| 223 | spIQ12884 SEPR_HUMAN | Prolyl endopeptidase FAP OS=Homo sapiens OX=9606 GN=FAP PE=1 SV=5 | Up | 1.200380125 | 0.018629789 |
| 559 | spIQ9UP95 S12A4_HUMAN | Solute carrier family 12 member 4 OS=Homo sapiens OX=9606 GN=SLC12A4 PE=1 SV=2 | Down | 0.828646705 | 0.041236881 |
| 1034 | spIP35555 FBN1_HUMAN | Fibrillin-1 OS=Homo sapiens OX=9606 GN=FBN1 PE=1 SV=3 | Down | 0.828494725 | 0.033419192 |
| 101 | spIP05023 AT1A1_HUMAN | Sodium/potassium-transporting ATPase subunit alpha-1 OS=Homo sapiens OX=9606 GN=ATP1A1 PE=1 SV=1 | Down | 0.825284292 | 0.02574705 |
| 175 | spIP26599 PTBP1_HUMAN | Polypyrimidine tract-binding protein 1 OS=Homo sapiens OX=9606 GN=PTBP1 PE=1 SV=1 | Down | 0.822827182 | 0.001620211 |
| 1627 | spIP52788 SPSY_HUMAN | Spermine synthase OS=Homo sapiens OX=9606 GN=SMS PE=1 SV=2 | Down | 0.817766528 | 0.043719601 |
| 3023 | spIQ14257 RCN2_HUMAN | Reticulocalbin-2 OS=Homo sapiens OX=9606 GN=RCN2 PE=1 SV=1 | Down | 0.812431629 | 0.01081681 |
| 536 | spIO75367 H2AY_HUMAN | Core histone macro-H2A.1 OS=Homo sapiens OX=9606 GN=H2AFY PE=1 SV=4 | Down | 0.811171052 | 0.03356519 |
| 757 | spIQ66K74 MAPIS_HUMAN | Microtubule-associated protein 1S OS=Homo sapiens OX=9606 GN=MAP1S PE=1 SV=2 | Down | 0.803105237 | 0.0133419 |
| 994 | spIP61764 STXB1_HUMAN | Syntaxin-binding protein 1 OS=Homo sapiens OX=9606 GN=STXBP1 PE=1 SV=1 | Down | 0.800549445 | 0.028669611 |
| 182 | spIQ04446 GLGB_HUMAN | 1,4-alpha-glucan-branching enzyme OS=Homo sapiens OX=9606 GN=GBE1 PE=1 SV=3 | Down | 0.778293615 | 0.032069299 |
| 1258 | spIQ9Y2D4 EXC6B_HUMAN | Exocyst complex component 6B OS=Homo sapiens OX=9606 GN=EXOC6B PE=1 SV=3 | Down | 0.77601281 | 0.036976151 |
| 1601 | spIQ05397 FAK1_HUMAN | Focal adhesion kinase 1 OS=Homo sapiens OX=9606 GN=PTK2 PE=1 SV=2 | Down | 0.770786271 | 0.01284171 |
| 370 | spIP49419 AL7A1_HUMAN | Alpha-aminoadipic semialdehyde dehydrogenase OS=Homo sapiens OX=9606 GN=ALDH7A1 PE=1 SV=5 | Down | 0.766736089 | 0.041004691 |
| 425 | spIP12110 CO6A2_HUMAN | Collagen alpha-2(VI) chain OS=Homo sapiens OX=9606 GN=COL6A2 PE=1 SV=4 | Down | 0.7663318562 | 0.02045789 |
| 1146 | spIO95865 DDAH2_HUMAN | N(G),N(G)-dimethylarginine dimethylaminohydrolase 2 OS=Homo sapiens OX=9606 GN=DDAH2 PE=1 SV=1 | Down | 0.755064471 | 0.008883956 |
| 778 | spIQ16795 INDUA9_HUMAN | NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial OS=Homo sapiens OX=9606 GN=NDUFA9 PE=1 SV=2 | Down | 0.751833224 | 0.017163871 |
| 302 | spIP61978 HNRPK_HUMAN | Heterogeneous nuclear ribonucleoprotein K OS=Homo sapiens OX=9606 GN=HNRNPK PE=1 SV=1 | Down | 0.747737007 | 0.009556236 |
| 1980 | spIO95248 MTMR5_HUMAN | Myotubularin-related protein 5 OS=Homo sapiens OX=9606 GN=SBF1 PE=1 SV=4 | Down | 0.747549262 | 0.018098241 |
| 212 | spIP50570 IDYN2_HUMAN | Dynamin-2 OS=Homo sapiens OX=9606 GN=DNM2 PE=1 SV=2 | Down | 0.742275834 | 0.021181529 |
| 228 | spIP06737 PYGL_HUMAN | Glycogen phosphorylase, liver form OS=Homo sapiens OX=9606 GN=PYGL PE=1 SV=4 | Down | 0.742184256 | 0.036317188 |
| 1308 | spIO96005 CLPT1_HUMAN | Cleft lip and palate transmembrane protein 1 OS=Homo sapiens OX=9606 GN=CLPTM1 PE=1 SV=1 | Down | 0.735094017 | 0.048695281 |
| 248 | spIP54289 CA2D1_HUMAN | Voltage-dependent calcium channel subunit alpha-2/delta-1 OS=Homo sapiens OX=9606 GN=CACNA2D1 PE=1 SV=3 | Down | 0.734049707 | 0.038661439 |
| 153 | spIP17301 ITGA2_HUMAN | Integrin alpha-2 OS=Homo sapiens OX=9606 GN=ITGA2 PE=1 SV=1 | Down | 0.722252208 | 0.003761852 |
| 1409 | spIP61224 RAP1B_HUMAN | Ras-related protein Rap-1b OS=Homo sapiens OX=9606 GN=RAP1B PE=1 SV=1 | Down | 0.720913554 | 0.04187509 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|-----------------------|--|------------|-------------|-------------|
| 636 | spIQ16698IDECR_HUMAN | 2,4-dienoyl-CoA reductase, mitochondrial OS=Homo sapiens OX=9606 GN=DECR1 PE=1 SV=1 | Down | 0.715655176 | 0.03745351 |
| 127 | spIP29401ITKT_HUMAN | Transketolase OS=Homo sapiens OX=9606 GN=TKT PE=1 SV=3 | Down | 0.714398976 | 0.008716368 |
| 123 | spIP49748IACADV_HUMAN | Very long-chain specific acyl-CoA dehydrogenase, mitochondrial OS=Homo sapiens OX=9606 GN=ACADV PE=1 SV=1 | Down | 0.706951574 | 0.04104675 |
| 552 | spIP33121IACSL1_HUMAN | Long-chain-fatty-acid--CoA ligase 1 OS=Homo sapiens OX=9606 GN=ACSL1 PE=1 SV=1 | Down | 0.70271212 | 0.032487448 |
| 9 | spIO75369FLNB_HUMAN | Filamin-B OS=Homo sapiens OX=9606 GN=FLNB PE=1 SV=2 | Down | 0.689130182 | 0.00069779 |
| 216 | spIP40926IMDHM_HUMAN | Malate dehydrogenase, mitochondrial OS=Homo sapiens OX=9606 GN=MDH2 PE=1 SV=3 | Down | 0.681597134 | 0.01040755 |
| 1347 | spIP42858IHD_HUMAN | Huntingtin OS=Homo sapiens OX=9606 GN=HTT PE=1 SV=2 | Down | 0.679696007 | 0.040824689 |
| 191 | spIP55084IECHB_HUMAN | Trifunctional enzyme subunit beta, mitochondrial OS=Homo sapiens OX=9606 GN=HADHB PE=1 SV=3 | Down | 0.672400539 | 0.041818019 |
| 579 | spIP10515IODP2_HUMAN | Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial OS=Homo sapiens OX=9606 GN=DLAT PE=1 SV=3 | Down | 0.671204686 | 0.043124892 |
| 764 | spIQ9UIJ7IKAD3_HUMAN | GTP:AMP phosphotransferase AK3, mitochondrial OS=Homo sapiens OX=9606 GN=AK3 PE=1 SV=4 | Down | 0.66954718 | 0.01598284 |
| 1682 | spIQ9NX40IOCAD1_HUMAN | OCIA domain-containing protein 1 OS=Homo sapiens OX=9606 GN=OCIAD1 PE=1 SV=1 | Down | 0.656914825 | 0.043602511 |
| 606 | spIP04040ICATA_HUMAN | Catalase OS=Homo sapiens OX=9606 GN=CAT PE=1 SV=3 | Down | 0.65574076 | 0.0304559 |
| 1446 | spIQ9Y3A6ITMED5_HUMAN | Transmembrane emp24 domain-containing protein 5 OS=Homo sapiens OX=9606 GN=TMED5 PE=1 SV=1 | Down | 0.654017629 | 0.030291829 |
| 93 | spIQ13423INNTM_HUMAN | NAD(P) transhydrogenase, mitochondrial OS=Homo sapiens OX=9606 GN=NNT PE=1 SV=3 | Down | 0.652299474 | 0.000257968 |
| 37 | spIP15144IAMPN_HUMAN | Aminopeptidase N OS=Homo sapiens OX=9606 GN=ANPEP PE=1 SV=4 | Down | 0.649026639 | 1.98884E-05 |
| 1200 | spIQ93034CUL5_HUMAN | Cullin-5 OS=Homo sapiens OX=9606 GN=CUL5 PE=1 SV=4 | Down | 0.6448301 | 0.02196818 |
| 277 | spIQ99798IACON_HUMAN | Aconitate hydratase, mitochondrial OS=Homo sapiens OX=9606 GN=ACO2 PE=1 SV=2 | Down | 0.641964174 | 0.006885001 |
| 275 | spIP39023IRL3_HUMAN | 60S ribosomal protein L3 OS=Homo sapiens OX=9606 GN=RPL3 PE=1 SV=2 | Down | 0.632711331 | 0.00639711 |
| 521 | spIP42765ITHIM_HUMAN | 3-ketoacyl-CoA thiolase, mitochondrial OS=Homo sapiens OX=9606 GN=ACAA2 PE=1 SV=2 | Down | 0.628063772 | 0.01288115 |
| 390 | spIP07858ICATB_HUMAN | Cathepsin B OS=Homo sapiens OX=9606 GN=CTSB PE=1 SV=3 | Down | 0.615159574 | 0.023609851 |
| 33 | spIP00558IPGK1_HUMAN | Phosphoglycerate kinase 1 OS=Homo sapiens OX=9606 GN=PGK1 PE=1 SV=3 | Down | 0.614921582 | 6.20649E-05 |
| 776 | spIP17813IEGLN_HUMAN | Endoglin OS=Homo sapiens OX=9606 GN=ENG PE=1 SV=2 | Down | 0.611929559 | 0.006312106 |
| 1266 | spIO14558IHSPB6_HUMAN | Heat shock protein beta-6 OS=Homo sapiens OX=9606 GN=HSPB6 PE=1 SV=2 | Down | 0.606374003 | 0.025080189 |
| 649 | spIQ10472IGALT1_HUMAN | Polypeptide N-acetylgalactosaminyltransferase 1 OS=Homo sapiens OX=9606 GN=GALNT1 PE=1 SV=1 | Down | 0.580879021 | 0.01895107 |
| 1626 | spIQ92878IRAD50_HUMAN | DNA repair protein RAD50 OS=Homo sapiens OX=9606 GN=RAD50 PE=1 SV=1 | Down | 0.575876441 | 0.03379932 |
| 1819 | spIP62330IARF6_HUMAN | ADP-ribosylation factor 6 OS=Homo sapiens OX=9606 GN=ARF6 PE=1 SV=2 | Down | 0.572688571 | 0.041119192 |
| 1881 | spIO14786INRPI_HUMAN | Neuropilin-1 OS=Homo sapiens OX=9606 GN=NRPI PE=1 SV=3 | Down | 0.572507045 | 0.01087937 |
| 25 | spIQ07954ILRP1_HUMAN | Prolow-density lipoprotein receptor-related protein 1 OS=Homo sapiens OX=9606 GN=LRP1 PE=1 SV=2 | Down | 0.566503016 | 0.00040199 |
| 16 | spIP04406IG3P_HUMAN | Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens OX=9606 GN=GAPDH PE=1 SV=3 | Down | 0.557691572 | 0.01724715 |
| 998 | spIP04179ISODM_HUMAN | Superoxide dismutase [Mn], mitochondrial OS=Homo sapiens OX=9606 GN=SOD2 PE=1 SV=3 | Down | 0.538427089 | 0.03092055 |

Table SI. Continued.

| N | Accession | Name | Diff_state | HCPB:HCP | PVal |
|------|-----------------------|---|------------|-------------|-------------|
| 68 | sp P42224 STAT1_HUMAN | Signal transducer and activator of transcription 1 -alpha/beta OS=Homo sapiens OX=9606 GN=STAT1 PE=1 SV=2 | Down | 0.536825199 | 0.001553878 |
| 413 | sp Q9UBG0 MRC2_HUMAN | C-type mannose receptor 2 OS=Homo sapiens OX=9606 GN=MRC2 PE=1 SV=2 | Down | 0.52889347 | 0.017194049 |
| 478 | sp Q96CX2 KCD12_HUMAN | BTB/POZ domain-containing protein KCD12 OS=Homo sapiens OX=9606 GN=KCD12 PE=1 SV=1 | Down | 0.518821781 | 0.002300407 |
| 64 | sp P11216 PYGB_HUMAN | Glycogen phosphorylase, brain form OS=Homo sapiens OX=9606 GN=PYGB PE=1 SV=5 | Down | 0.507987954 | 0.008311799 |
| 1231 | sp P51688 SPHM_HUMAN | N-sulphoglucosamine sulphohydrolase OS=Homo sapiens OX=9606 GN=SGSH PE=1 SV=1 | Down | 0.488864437 | 0.037516709 |
| 515 | sp Q9UKX5 ITA11_HUMAN | Integrin alpha-11 OS=Homo sapiens OX=9606 GN=ITGA11 PE=1 SV=2 | Down | 0.47160752 | 0.040472809 |
| 272 | sp Q06830 PRDX1_HUMAN | Peroxiredoxin-1 OS=Homo sapiens OX=9606 GN=PRDX1 PE=1 SV=1 | Down | 0.47021025 | 0.01485253 |
| 169 | sp P21589 5NTD_HUMAN | 5'-nucleotidase OS=Homo sapiens OX=9606 GN=NT5E PE=1 SV=1 | Down | 0.442680425 | 2.06411E-05 |
| 493 | sp Q15582 BGH3_HUMAN | Transforming growth factor-beta-induced protein ig-h3 OS=Homo sapiens OX=9606 GN=TGFB1 PE=1 SV=1 | Down | 0.439233365 | 0.003950913 |
| 54 | sp O00469 PLOD2_HUMAN | Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 OS=Homo sapiens OX=9606 GN=PLOD2 PE=1 SV=2 | Down | 0.434508559 | 0.000453347 |
| 901 | sp Q6YHK3 CD109_HUMAN | CD109 antigen OS=Homo sapiens OX=9606 GN=CD109 PE=1 SV=2 | Down | 0.421369251 | 0.000102637 |
| 1466 | sp P24821 ITENA_HUMAN | Tenascin OS=Homo sapiens OX=9606 GN=TNCP PE=1 SV=3 | Down | 0.421346163 | 0.003139075 |
| 221 | sp P07093 IGDN_HUMAN | Glia-derived nexin OS=Homo sapiens OX=9606 GN=SERPINE2 PE=1 SV=1 | Down | 0.407478093 | 0.01446738 |
| 60 | sp P00338 ILDHA_HUMAN | L-lactate dehydrogenase A chain OS=Homo sapiens OX=9606 GN=LDHA PE=1 SV=2 | Down | 0.402261236 | 6.07534E-05 |
| 10 | sp P12111 CO6A3_HUMAN | Collagen alpha-3(VI) chain OS=Homo sapiens OX=9606 GN=COL6A3 PE=1 SV=5 | Down | 0.360335225 | 3.73646E-06 |
| 1175 | sp Q9Y6C2 EMIL1_HUMAN | EMILIN-1 OS=Homo sapiens OX=9606 GN=EMILIN1 PE=1 SV=3 | Down | 0.360267129 | 0.01133484 |
| 1007 | sp P98160 PGBM_HUMAN | Basement membrane-specific heparan sulfate proteoglycan core protein OS=Homo sapiens OX=9606 GN=HSPG2 PE=1 SV=4 | Down | 0.342047984 | 0.000730608 |
| 2688 | sp Q8N3P4 VPS8_HUMAN | Vacuolar protein sorting-associated protein 8 homolog OS=Homo sapiens OX=9606 GN=VPS8 PE=1 SV=3 | Down | 0.325993612 | 0.01259269 |
| 23 | sp P02751 FINC_HUMAN | Fibronectin OS=Homo sapiens OX=9606 GN=FN1 PE=1 SV=4 | Down | 0.307032103 | 5.72E-12 |
| 363 | sp P20591 MX1_HUMAN | Interferon-induced GTP-binding protein Mx1 OS=Homo sapiens OX=9606 GN=MX1 PE=1 SV=4 | Down | 0.289555963 | 0.002112777 |
| 520 | sp P09601 HMOX1_HUMAN | Heme oxygenase 1 OS=Homo sapiens OX=9606 GN=HMOX1 PE=1 SV=1 | Down | 0.280689607 | 0.000114466 |
| 1106 | sp P02768 ALBU_HUMAN | Serum albumin OS=Homo sapiens OX=9606 GN=ALB PE=1 SV=2 | Down | 0.162563379 | 0.03988342 |