**Supplementary Table 1. List of differentially expressed proteins, as identified using iTRAQ technology.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Accession** | **Name** | **Diff\_state** | **N:A** | **PVal N:A** |
| sp|P07814|SYEP\_HUMAN | Bifunctional glutamate/proline--tRNA ligase | down | 0.792803879 | 0.01087022 |
| sp|P05783|K1C18\_HUMAN | Keratin, type I cytoskeletal 18 | down | 0.742946587 | 0.000353783 |
| sp|P41252|SYIC\_HUMAN | Isoleucine--tRNA ligase, cytoplasmic | down | 0.821523054 | 0.009768226 |
| sp|O00159|MYO1C\_HUMAN | Unconventional myosin-Ic | down | 0.734331835 | 0.020638241 |
| sp|P22102|PUR2\_HUMAN | Trifunctional purine biosynthetic protein adenosine-3 | down | 0.769792022 | 0.047847841 |
| sp|P54577|SYYC\_HUMAN | Tyrosine--tRNA ligase, cytoplasmic | down | 0.646177966 | 0.002156867 |
| sp|P26641|EF1G\_HUMAN | Elongation factor 1-gamma | down | 0.787852134 | 0.049936108 |
| sp|P17174|AATC\_HUMAN | Aspartate aminotransferase, cytoplasmic | down | 0.635767105 | 0.009885369 |
| sp|P05091|ALDH2\_HUMAN | Aldehyde dehydrogenase, mitochondrial | down | 0.783230995 | 0.01297472 |
| sp|O43175|SERA\_HUMAN | D-3-phosphoglycerate dehydrogenase | down | 0.592603538 | 0.003545604 |
| sp|P08243|ASNS\_HUMAN | Asparagine synthetase [glutamine-hydrolyzing] | down | 0.569436597 | 0.000674352 |
| sp|Q9Y262|EIF3L\_HUMAN | Eukaryotic translation initiation factor 3 subunit L | down | 0.804200156 | 0.04667886 |
| sp|P46060|RAGP1\_HUMAN | Ran GTPase-activating protein 1 | down | 0.799350319 | 0.02796296 |
| sp|P13798|ACPH\_HUMAN | Acylamino-acid-releasing enzyme | down | 0.740405677 | 0.008923794 |
| sp|P46781|RS9\_HUMAN | 40S ribosomal protein S9 | down | 0.81225004 | 0.044261429 |
| sp|A5YKK6|CNOT1\_HUMAN | CCR4-NOT transcription complex subunit 1 | down | 0.724512726 | 0.0147006 |
| sp|Q16822|PCKGM\_HUMAN | Phosphoenolpyruvate carboxykinase [GTP], mitochondrial | down | 0.642235499 | 0.002520137 |
| sp|Q9Y617|SERC\_HUMAN | Phosphoserine aminotransferase | down | 0.697747719 | 0.01404908 |
| sp|P00966|ASSY\_HUMAN | Argininosuccinate synthase | down | 0.669298846 | 0.03787975 |
| sp|Q14137|BOP1\_HUMAN | Ribosome biogenesis protein BOP1 | down | 0.793751543 | 0.009631023 |
| sp|P49321|NASP\_HUMAN | Nuclear autoantigenic sperm protein | down | 0.795030344 | 0.028603939 |
| sp|O95573|ACSL3\_HUMAN | Long-chain-fatty-acid--CoA ligase 3 | down | 0.660341887 | 0.04910947 |
| sp|Q13247|SRSF6\_HUMAN | Serine/arginine-rich splicing factor 6 | down | 0.816789729 | 0.038277559 |
| sp|Q14789|GOGB1\_HUMAN | Golgin subfamily B member 1 | down | 0.709280023 | 0.02155439 |
| sp|Q15050|RRS1\_HUMAN | Ribosome biogenesis regulatory protein homolog | down | 0.715274844 | 0.016473031 |
| sp|O95163|ELP1\_HUMAN | Elongator complex protein 1 | down | 0.749410326 | 0.032891199 |
| sp|Q15758|AAAT\_HUMAN | Neutral amino acid transporter B(0) | down | 0.710976371 | 0.0264921 |
| sp|Q9UJU6|DBNL\_HUMAN | Drebrin-like protein | down | 0.66129683 | 0.02991342 |
| sp|Q9NRG9|AAAS\_HUMAN | Aladin | down | 0.811203995 | 0.004531072 |
| sp|O60306|AQR\_HUMAN | RNA helicase aquarius | down | 0.661844472 | 0.002593199 |
| sp|Q14573|ITPR3\_HUMAN | Inositol 1,4,5-trisphosphate receptor type 3 | down | 0.818897167 | 0.03199479 |
| sp|P62244|RS15A\_HUMAN | 40S ribosomal protein S15a | down | 0.564510336 | 0.005429749 |
| sp|O15160|RPAC1\_HUMAN | DNA-directed RNA polymerases I and III subunit RPAC1 | down | 0.740243078 | 0.024419909 |
| sp|Q9BZE1|RM37\_HUMAN | 39S ribosomal protein L37, mitochondrial | down | 0.713000066 | 0.02531947 |
| sp|P48634|PRC2A\_HUMAN | Protein PRRC2A | down | 0.640472399 | 0.005960362 |
| sp|Q99447|PCY2\_HUMAN | Ethanolamine-phosphate cytidylyltransferase | down | 0.799402898 | 0.002745488 |
| sp|P02768|ALBU\_HUMAN | Serum albumin OS=Homo sapiens | down | 0.483727251 | 0.029203501 |
| sp|Q86V21|AACS\_HUMAN | Acetoacetyl-CoA synthetase | down | 0.61963473 | 0.01440966 |
| sp|Q96IU4|ABHEB\_HUMAN | Protein ABHD14B OS=Homo sapiens | down | 0.571668449 | 0.017714869 |
| sp|Q93096|TP4A1\_HUMAN | Protein tyrosine phosphatase type IVA 1 | down | 0.681451378 | 0.042571779 |
| sp|Q13884|SNTB1\_HUMAN | Beta-1-syntrophin | down | 0.734371898 | 0.02866016 |
| sp|Q13459|MYO9B\_HUMAN | Unconventional myosin-IXb | down | 0.524364463 | 0.034658901 |
| sp|P11117|PPAL\_HUMAN | Lysosomal acid phosphatase | down | 0.756923116 | 0.00245728 |
| sp|Q99829|CPNE1\_HUMAN | Copine-1 | down | 0.611795564 | 0.033692122 |
| sp|Q8NBL1|PGLT1\_HUMAN | Protein O-glucosyltransferase 1 | down | 0.746152208 | 0.043779399 |
| sp|Q13751|LAMB3\_HUMAN | Laminin subunit beta-3 | down | 0.509489846 | 0.027609119 |
| sp|Q13625|ASPP2\_HUMAN | Apoptosis-stimulating of p53 protein 2 | down | 0.765284522 | 0.025569901 |
| sp|O15550|KDM6A\_HUMAN | Lysine-specific demethylase 6A | down | 0.803409447 | 0.039863098 |
| sp|Q8WWQ0|PHIP\_HUMAN | PH-interacting protein | down | 0.592842601 | 0.003504451 |
| sp|P15924|DESP\_HUMAN | Desmoplakin | up | 1.255141751 | 0.004822595 |
| sp|Q00610|CLH1\_HUMAN | Clathrin heavy chain 1 | up | 1.422023761 | 0.002099092 |
| sp|P02545|LMNA\_HUMAN | Prelamin-A/C | up | 1.682500004 | 0.000159908 |
| sp|P14625|ENPL\_HUMAN | Endoplasmin | up | 1.609501507 | 0.01759797 |
| sp|P07237|PDIA1\_HUMAN | Protein disulfide-isomerase | up | 1.382496768 | 0.017523 |
| sp|P08727|K1C19\_HUMAN | Keratin, type I cytoskeletal 19 | up | 1.272834424 | 0.021453589 |
| sp|P30101|PDIA3\_HUMAN | Protein disulfide-isomerase A3 | up | 1.606847108 | 0.02757204 |
| sp|P15311|EZRI\_HUMAN | Ezrin | up | 1.605028857 | 0.004648781 |
| sp|P07355|ANXA2\_HUMAN | Annexin A2 | up | 1.211655899 | 0.03883798 |
| sp|P00558|PGK1\_HUMAN | Phosphoglycerate kinase 1 | up | 2.412318221 | 0.000216224 |
| sp|P04075|ALDOA\_HUMAN | Fructose-bisphosphate aldolase A | up | 1.716734348 | 0.006109887 |
| sp|P19367|HXK1\_HUMAN | Hexokinase-1 | up | 1.707329873 | 0.01684387 |
| sp|P11388|TOP2A\_HUMAN | DNA topoisomerase 2-alpha | up | 1.225871427 | 0.018189371 |
| sp|P46013|KI67\_HUMAN | Proliferation marker protein Ki-67 | up | 1.744001152 | 1.0732E-07 |
| sp|P04181|OAT\_HUMAN | Ornithine aminotransferase, mitochondrial | up | 1.660857244 | 0.005669426 |
| sp|P00338|LDHA\_HUMAN | L-lactate dehydrogenase A chain | up | 2.196876263 | 0.000803827 |
| sp|Q9BQG0|MBB1A\_HUMAN | Myb-binding protein 1A | up | 1.229353655 | 0.03885521 |
| sp|Q02809|PLOD1\_HUMAN | Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 | up | 1.492765124 | 0.01354179 |
| sp|P09525|ANXA4\_HUMAN | Annexin A4 | up | 1.401961768 | 0.01017233 |
| sp|P11717|MPRI\_HUMAN | Cation-independent mannose-6-phosphate receptor | up | 1.214901963 | 0.01168341 |
| sp|P53992|SC24C\_HUMAN | Protein transport protein Sec24C | up | 1.303625544 | 0.02386662 |
| sp|P09972|ALDOC\_HUMAN | Fructose-bisphosphate aldolase C | up | 1.54582449 | 0.000591119 |
| sp|P36776|LONM\_HUMAN | Lon protease homolog, mitochondrial | up | 1.276383769 | 0.0435111 |
| sp|O75874|IDHC\_HUMAN | Isocitrate dehydrogenase [NADP] cytoplasmic | up | 1.276969741 | 0.029420551 |
| sp|P67809|YBOX1\_HUMAN | Y-box-binding protein 1 | up | 1.886596705 | 0.000457834 |
| sp|P21796|VDAC1\_HUMAN | Voltage-dependent anion-selective channel protein 1 | up | 1.252228907 | 0.018743981 |
| sp|Q15084|PDIA6\_HUMAN | Protein disulfide-isomerase A6 | up | 1.377583702 | 0.039036799 |
| sp|P13674|P4HA1\_HUMAN | Prolyl 4-hydroxylase subunit alpha-1 | up | 2.115284384 | 1.66983E-05 |
| sp|Q96RP9|EFGM\_HUMAN | Elongation factor G, mitochondrial | up | 1.237728558 | 0.040380459 |
| sp|P08758|ANXA5\_HUMAN | Annexin A5 | up | 1.221398691 | 0.0336514 |
| sp|P49756|RBM25\_HUMAN | RNA-binding protein 25 | up | 1.23339502 | 0.003537194 |
| sp|Q9ULV4|COR1C\_HUMAN | Coronin-1C | up | 1.233172904 | 0.046842352 |
| sp|P52789|HXK2\_HUMAN | Hexokinase-2 | up | 1.666776161 | 0.01228437 |
| sp|Q15021|CND1\_HUMAN | Condensin complex subunit 1 | up | 1.50600265 | 0.039348561 |
| sp|Q9Y6Y8|S23IP\_HUMAN | SEC23-interacting protein | up | 1.533228845 | 0.02520846 |
| sp|P11166|GTR1\_HUMAN | Solute carrier family 2, facilitated glucose transporter member 1 | up | 1.863066207 | 0.01466361 |
| sp|Q14517|FAT1\_HUMAN | Protocadherin Fat 1 | up | 1.258898674 | 0.03228293 |
| sp|Q86X29|LSR\_HUMAN | Lipolysis-stimulated lipoprotein receptor | up | 1.628985113 | 0.02857751 |
| sp|P30044|PRDX5\_HUMAN | Peroxiredoxin-5, mitochondrial | up | 2.057733529 | 0.01283083 |
| sp|Q14108|SCRB2\_HUMAN | Lysosome membrane protein 2 | up | 1.928419914 | 0.039221279 |
| sp|P07602|SAP\_HUMAN | Prosaposin | up | 1.372000579 | 0.01384656 |
| sp|O00468|AGRIN\_HUMAN | Agrin | up | 1.62505393 | 0.007491595 |
| sp|P04792|HSPB1\_HUMAN | Heat shock protein beta-1 | up | 1.345270611 | 0.048009031 |
| sp|P49821|NDUV1\_HUMAN | NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial | up | 1.405244845 | 0.033441119 |
| sp|Q92619|HMHA1\_HUMAN | Rho GTPase-activating protein 45 | up | 1.378649415 | 0.03425701 |
| sp|P26368|U2AF2\_HUMAN | Splicing factor U2AF 65 kDa subunit | up | 1.374401982 | 0.03858006 |
| sp|P09104|ENOG\_HUMAN | Gamma-enolase | up | 2.403108563 | 0.004701627 |
| sp|Q9Y376|CAB39\_HUMAN | Calcium-binding protein 39 | up | 1.391294809 | 0.04487009 |
| sp|O76031|CLPX\_HUMAN | ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial | up | 1.357533348 | 0.04272997 |
| sp|Q8WUF5|IASPP\_HUMAN | RelA-associated inhibitor | up | 1.447984725 | 0.0375419 |
| sp|P08648|ITA5\_HUMAN | Integrin alpha-5 | up | 1.659674007 | 0.003267494 |
| sp|P29353|SHC1\_HUMAN | SHC-transforming protein 1 | up | 1.276030265 | 0.037934508 |
| sp|P55081|MFAP1\_HUMAN | Microfibrillar-associated protein 1 | up | 1.553013396 | 0.028217761 |
| sp|P16401|H15\_HUMAN | Histone H1.5 | up | 1.297085016 | 0.04311119 |
| sp|P61313|RL15\_HUMAN | 60S ribosomal protein L15 | up | 1.273798279 | 0.006427042 |
| sp|Q8N5K1|CISD2\_HUMAN | CDGSH iron-sulfur domain-containing protein 2 | up | 2.061148984 | 0.02086189 |
| sp|P51116|FXR2\_HUMAN | Fragile X mental retardation syndrome-related protein 2 | up | 1.29109013 | 0.03455089 |
| sp|P16422|EPCAM\_HUMAN | Epithelial cell adhesion molecule | up | 1.495689918 | 0.004267967 |
| sp|Q15654|TRIP6\_HUMAN | Thyroid receptor-interacting protein 6 | up | 2.710941956 | 0.007083457 |
| sp|Q16222|UAP1\_HUMAN | UDP-N-acetylhexosamine pyrophosphorylase | up | 1.659967301 | 0.04374326 |
| sp|Q9NRW7|VPS45\_HUMAN | Vacuolar protein sorting-associated protein 45 | up | 1.506609258 | 0.02571601 |
| sp|O75531|BAF\_HUMAN | Barrier-to-autointegration factor | up | 1.275808056 | 0.02700844 |
| sp|Q9NRZ9|HELLS\_HUMAN | Lymphoid-specific helicase | up | 1.529224055 | 0.034564011 |
| sp|Q96K19|RN170\_HUMAN | E3 ubiquitin-protein ligase RNF170 | up | 1.482982635 | 0.03748608 |
| sp|P49761|CLK3\_HUMAN | Dual specificity protein kinase CLK3 | up | 2.197261426 | 0.02264297 |
| sp|P10586|PTPRF\_HUMAN | Receptor-type tyrosine-protein phosphatase F | up | 1.222208541 | 0.033641972 |
| sp|Q8TER5|ARH40\_HUMAN | Rho guanine nucleotide exchange factor 40 | up | 1.70021811 | 0.01299789 |