**CONTENT OF SUPPLEMENTARY MATERIAL**

*Material is present in the separate excel file.

lysed in denaturing buffer and analysed with 2D-LC-MSMS; C and D – cells were lysed in 'native' buffer; SD – standard deviation, n – number of replicas. Fold difference in protein level is calculated as $\log_2$[iTRAQ ratio]. The protein level was assigned as significantly higher, when absolute value of fold difference in protein level, taking in account standard deviation, was more than 1: (ABS ($\log_2$[iTRAQ ratio])-SD) >1.Excel file.

**Supplementary Table S9.** List of proteins with significantly higher level in each cell line in comparison with the other in a pairwise comparison.

**Supplementary Table S10.** Comparison of functional annotation results for quantitative analysis of the three different cell lines: HEK293, U937 and PBMCs. Enrichment of KEGG_PATHWAY categories.

**Supplementary Table S11.** Comparison of functional annotation results for quantitative analysis of 3 different cell lines: HEK293, U937 and PBMCs. Enrichment of GENETIC_ASSOCIATION_DB_DISEASE categories.

**A**

| Lysis condition | Number of protein IDs |
|---|---|
| (i)   HEPES + NP-40 | 280 |
| (ii)  HEPES without  NP-40 + sonication | 42 |
| (iii) urea | 148 |
| (iv)  urea + sonication | 100 |
| (v)   urea + thiourea + sonication | 81 |

**B**
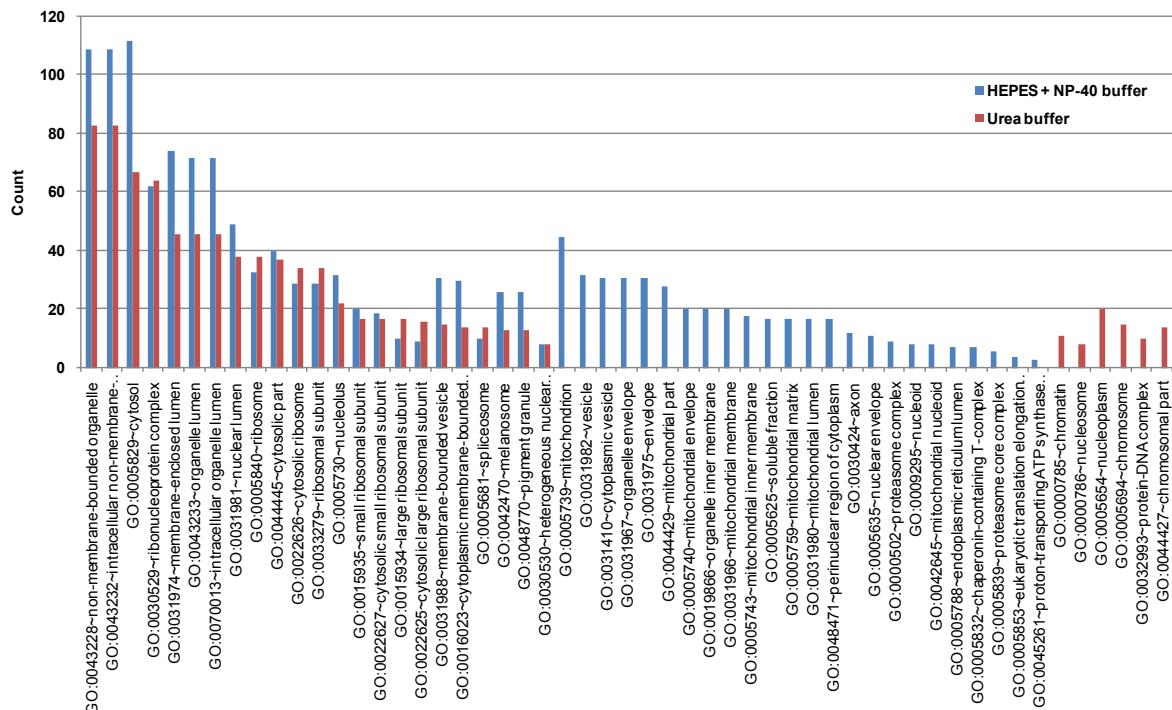


**Supplementary Figure S1**. Evaluation of buffers and lysis conditions for analysis of proteomes from small amount of cell material. (A) Number of proteins identified under different lyses conditions from 1,000 of HEK293cells. In each case an aliquot corresponding to 1,000 cells was taken from a lysate of $8.7*10^6$ cells. Buffers (i) (50 mM HEPES, 150 mM NaCl, 5 mM EDTA, 0.5% NP-40, pH 8.0) and (iii) (9 M urea, 20 mM HEPES, pH 8.0) were chosen for further evaluation. The details of the lysis conditions are described in section 2.4 of Materials and Methods. (B) Comparison of two buffers, 'native' (i) and denaturing (iii), for the efficiency of protein extraction from different cell compartments. GOTERM_CC_FAT categories enriched in the Gene Ontology analysis with DAVID Bioinformatics Resources 6.7 are compared; thresholds: Count = 2, EASE = 0.01.
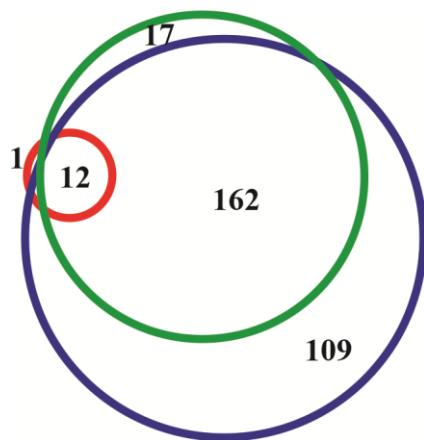
| Amount of lysed cells | Number of unique protein identifications |
|---|---|
| 1,000 | 13 |
| 5,000 | 191 |
| 10,000 | 283 |
| Total number of unique protein identifications | 301 |

**Supplementary Figure S2.** Number of unique protein identifications from different amount of HEK293 cells lysed with urea denaturing buffer. Details of buffer composition are as described in the section 2.7 of Material and Methods: Denaturing lysis and solution tryptic digestion.
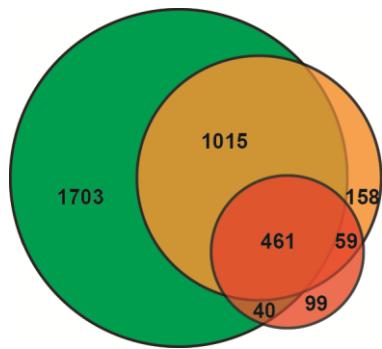
**Supplementary Figure S3**.Comparison of three cell types: HEK293 (green); U937 (orange); and human primary PBMCs (red). Number of unique proteins identified in the cell lines. For each cell line, the total number of unique proteinsidentifiedis the combination of the data that was generated from both the 5,000 and 10,000 cells lysed with 'native' and denaturing buffers and analyzed with 1D- and 2D-LC-MSMS.

**A**
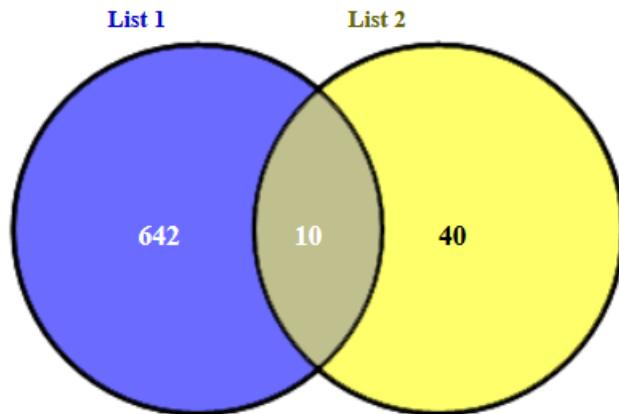


**B**

| UniProt AC | UniProt ID | Gene_symbol | Description | Cell type[1] |
|---|---|---|---|---|
| O00602 | **FCN1_HUMAN** | FCN1 | Ficolin-1 | **Monocytes** |
| Q14005 | **IL16_HUMAN** | IL16 | Pro-interleukin-16 | **T cells** |
| Q14766 | **LTBP1_HUMAN** | LTBP1 | Latent-transforming growth factor beta-binding protein 1 | **T cells** |
| P08514 | **ITA2B_HUMAN** | ITGA2B | Integrin alpha-IIb | **platelets** |
| P07359 | **GP1BA_HUMAN** | GP1BA | Platelet glycoprotein Ib alpha chain | **platelets** |
| P40197 | **GPV_HUMAN** | GP5 | Platelet glycoprotein V | **platelets** |
| P12931 | **SRC_HUMAN** | SRC | Proto-oncogene tyrosine-protein kinase Src | **platelets** |
| P59665 | **DEF1_HUMAN** | DEFA1B | Neutrophil defensin 1 | **neutrophils** |
| P69905 | **HBA_HUMAN** | HBA1 | Hemoglobin subunit alpha | **neutrophils** |
| P68871 | **HBB_HUMAN** | HBB | Hemoglobin subunit beta | **neutrophils** |

**Supplementary Figure S4.** Proteins in PBMCs, those are specific for certain blood cell types. (A) Comparison of total PBMCs proteome identified in our study (List 1) with list of specific blood cell proteins from Haudek et al., 2009 (List 2). (B) Table of proteins in PBMCs from our study that are specific for the cell types. [1]Specificity of protein to the cell type is defined according Haudek et al., 2009.

**Supplementary Table S5.** Comparison of functional annotation results for the three different cell lines: HEK293, U937 and PBMCs. Enrichment of KEGG_PATHWAY categories performed in DAVID Bioinformatics Resources 6.7; thresholds: Count=2, EASE=0.01. Pathways unique for the cell line are highlighted; color codes as on Figure 5.

| KEGG pathway map | | | Term | Count | | |
|---|---|---|---|---|---|---|
| | | | | HEK293 | U937 | PBMCs |
| 1. Metabolism | 1.0 Global and overview maps | 1.0 | hsa00071:Fatty acid metabolism | 22 | 13 | 9 |
| | 1.1 Carbohydrate metabolism | 1.1 | hsa00010:Glycolysis / Gluconeogenesis | 32 | 25 | 20 |
| | | 1.1 | hsa00020:Citrate cycle (TCA cycle) | 26 | 21 | |
| | | 1.1 | hsa00030:Pentose phosphate pathway | 15 | 13 | 10 |
| | | 1.1 | hsa00052:Galactose metabolism | 15 | 12 | |
| | | 1.1 | hsa00520:Amino sugar and nucleotide sugar metabolism | 24 | | |
| | | 1.1 | hsa00620:Pyruvate metabolism | 25 | 15 | 11 |
| | | 1.1 | hsa00630:Glyoxylate and dicarboxylate metabolism | 10 | | |
| | | 1.1 | hsa00640:Propanoate metabolism | 18 | 12 | |
| | 1.2 Energy metabolism | 1.2 | hsa00190:Oxidative phosphorylation | 84 | 37 | 17 |
| | 1.3 Lipid metaboism | 1.3 | hsa00062:Fatty acid elongation in mitochondria | 7 | | |
| | 1.4 Nucleotide metabolism | 1.4 | hsa00230:Purine metabolism | 54 | | |
| | | 1.4 | hsa00240:Pyrimidine metabolism | 42 | | |
| | 1.5 Amino acid metabolism | 1.5 | hsa00280:Valine, leucine and isoleucine degradation | 30 | 16 | |
| | | 1.5 | hsa00290:Valine, leucine and isoleucine biosynthesis | 9 | | |
| | | 1.5 | hsa00310:Lysine degradation | 19 | | |
| | | 1.5 | hsa00330:Arginine and proline metabolism | 23 | | |
| | 1.6 Metabolism of other amino acids | 1.6 | hsa00480:Glutathione metabolism | 21 | 17 | 11 |
| | 1.8 Metabolism of cofactors and vitamins | 1.8 | hsa00670:One carbon pool by folate | | 8 | |
| 2.Genetic information processing | 2.1 Transcription | 2.1 | hsa03040:Spliceosome | 89 | 61 | |
| | 2.2 Translation | 2.2 | hsa00970:Aminoacyl-tRNA biosynthesis | 32 | 20 | |
| | | 2.2 | hsa03010:Ribosome | 79 | 76 | 30 |
| | 2.3 Folding, sorting and degradation | 2.3 | hsa03018:RNA degradation | 31 | | |
| | | 2.3 | hsa03050:Proteasome | 34 | 35 | 11 |
| | | 2.3 | hsa03060:Protein export | 8 | 6 | |
| | | 2.3 | hsa04130:SNARE interactions in vesicular transport | 17 | | |
| | 2.4 Replication and repair | 2.4 | hsa03030:DNA replication | 29 | 16 | |
| | | 2.4 | hsa03420:Nucleotide excision repair | 22 | | |
| | | 2.4 | hsa03430:Mismatch repair | 16 | | |
| 4. Cellular processes | 4.1 Transport and catabolism | 4.1 | hsa04142:Lysosome | | 32 | |
| | 4.2Cell motility | 4.2 | hsa04810:Regulation of actin cytoskeleton | | | 34 |
| | 4.3 Cell growth and death | 4.3 | hsa04110:Cell cycle | 43 | | |
| | | 4.3 | hsa04114:Oocyte meiosis | 41 | | |
| | 4.4 Cell communication | 4.4 | hsa04510:Focal adhesion | | | 26 |
| | | 4.4 | hsa04520:Adherens junction | | | 12 |
| | | 4.4 | hsa04530:Tight junction | 47 | | |
| 5. Organismal systems | 5.1 Immune system | 5.1 | hsa04612:Antigen processing and presentation | | | 17 |
| | | 5.1 | hsa04666:Fc gamma R-mediated phagocytosis | | 26 | |
| | | 5.1 | hsa04670:Leukocyte transendothelial migration | | | 19 |
| 6. Human diseases | 6.4 Neurodegenerative diseases | 6.4 | hsa05010:Alzheimer's disease | 82 | 41 | 20 |
| | | 6.4 | hsa05012:Parkinson's disease | 81 | 39 | 21 |
| | | 6.4 | hsa05016:Huntington's disease | 99 | 47 | 23 |
| | 6.6 Cardiovascular diseases | 6.6 | hsa05416:Viral myocarditis | | | 12 |
| | 6.8 Infectious diseases: Bacterial | 6.8 | hsa05130:Pathogenic Escherichia coli infection | 27 | 21 | 21 |

**Supplementary Table 6.**Comparison of functional annotation results for 3 different cell lines: HEK293, U937 and PBMCs. Enrichment of GENETIC_ASSOCIATION_DB_DISEASE categories performed in DAVID Bioinformatics Resources 6.7; thresholds: Count=2, EASE=0.05. Categories unique for the cell line are highlighted; color codes as on Figure 5.

| Term | Counts | | |
|---|---|---|---|
| | HEK293 | U937 | PBMCs |
| ALS/amyotrophic lateral sclerosis | 9 | | |
| Alzheimer's Disease | | | 21 |
| Anemia | | | 4 |
| aplastic anemia, acquired | 6 | | |
| Asthma | | | 22 |
| atherosclerosis, coronary | | | 15 |
| atherosclerosis, coronary myocardial infarct | | | 4 |
| atherosclerosis, coronary; tuberculosis | 4 | 4 | 3 |
| atherosclerosis, generalized | | | 5 |
| Bernard-Soulier Syndrome | | | 3 |
| bladder cancer | 23 | | |
| brain hemorrhage | | | 6 |
| carbamazepine hypersensitivity | | | 4 |
| catalase activity | | 3 | 3 |
| cerebral infarct | | | 4 |
| cerebrovascular disease; sickle cell anemia | | | 7 |
| cirrhosis, alcoholic | | | 5 |
| coronary artery stent thrombosis | | | 3 |
| coronary disease | | | 4 |
| coronary heart disease | | | 8 |
| Fibrinogen | | | 3 |
| fibrinogen heart disease, ischemic tissue plasminogen activator level | | | 3 |
| fibrinogen Il-6 myocardial infarct | | | 3 |
| fibrinogen myocardial infarct | | | 4 |
| fibrinogen protein C resistance ratio prothrombin thrombosis, deep vein | | | 4 |
| head and neck cancer | 14 | | |
| hyperhomocysteinemia | 4 | | |
| Hypothyroidism | | 4 | 4 |
| intimal medial thickness | | | 3 |
| Leukemia | 19 | | |
| liver disease, alcoholic | | | 4 |
| Longevity | | | 9 |
| lung function | | | 5 |
| lymphoma, Non-Hodgkin's | 8 | | |
| lymphoproliferative disorders; blood transfusion complications | | | 3 |
| maternal microchimerism | | | 3 |
| methotrexate toxicity | 7 | | |
| myocardial infarct | | | 17 |
| myocardial infarct; atherosclerosis, coronary | | | 8 |
| myocardial infarct; heart disease, ischemic | | | 3 |
| myocardial infarct; thromboembolism, venous; thrombosis, deep vein | | | 3 |
| myocardial infarction | | | 12 |

| | | | |
|---|---|---|---|
| myocardial infarction; stroke | | | 3 |
| myocardial infarction; stroke, ischemic | | | 3 |
| neural tube defects | 12 | | |
| obesity; retinal vascular occlusion | | | 3 |
| Pancreatitis | | | 6 |
| pancreatitis, chronic | | | 5 |
| Parkinson's disease | | | 13 |
| Preeclampsia | | | 13 |
| pregnancy loss, recurrent | | | 8 |
| Psoriasis | | | 9 |
| Radiotoxicity | | | 3 |
| retinal vascular occlusion | | | 4 |
| Sarcoidosis | | | 7 |
| Sepsis | | | 6 |
| Spermatogenesis | 4 | | |
| spondyloarthropathies | | 4 | 4 |
| Stroke | | | 14 |
| stroke, ischemic | | | 14 |
| stroke, lacunar | | | 3 |
| Thrombocytopenia | | | 7 |
| thromboembolism, venous | | | 8 |
| Thrombosis | | | 5 |
| thrombosis, deep vein | | | 5 |
| Tuberculosis | | | 9 |
| Vitiligo | | 4 | 4 |

**Supplementary Table S9.** List of proteins with significantly higher level in each cell line in comparison with the other in a pairwise comparison. Summary of denaturing and 'native' buffer lysis conditions.

| 114/115 HEK293/U937 | 115/114 U937/HEK293 | 114/(116+117) HEK293/PBMCs | 115/(116+117) U937/PBMCs | (116+117)/114 PBMCs/HEK293 | (116+117)/115 PBMCs/U937 |
|---|---|---|---|---|---|
| Q01469 | Q7Z2W4-3 | P68366 | Q9BVP2-2 | P02533 | P01040 |
| P18887 | P33241 | P49588 | P27144 | P35908 | P13647 |
| P17980 | Q9UJU6-1 | P06744-1 | Q9UQ35-1 | P13645 | P13645 |
| P25705 | P10253 | P23141-1 | P09622 | P35527 | P29508-2 |
| P13010 | Q96G03 | P00441 | P13797 | P01040 | P01857 |
| Q99714-1 | Q9NQC3-2 | P54136-2 | P02545-3 | Q86YZ3 | P12544-2 |
| Q92499 | P21333-2 | P21333-2 | P00918 | P13647 | P02775 |
| Q8IX12-2 | P78527-2 | Q96G03 | P14314-2 | Q15517 | Q9H4B7 |
| Q14684-2 | O95319-5 | O95319-5 | P16403 | P62328 | P07996 |
| O00571-2 | P49588 | P04406 | Q01082-3 | Q15404-2 | P02671-2 |
| P61604 | P26038 | P04179-1 | P62316 | Q06323 | P05109 |
| P63220 | Q13423 | Q13510-1 | P33241 | P02679-2 | Q9Y3Z3-2 |
| Q9UII2-1 | P04439 | P61224 | P04406 | P30740 | P05106-1 |
| P49411 | O00299 | P07305-2 | Q9Y265-2 | P01857 | P68871 |
| Q14137 | P04083 | Q8WUM4 | P31942-2 | Q14141-2 | P02768-1 |
| P38646 | P08133 | P52597 | P11387 | P04083 | P15121 |
| P60900 | P14317 | Q92900-2 | Q13813-3 | P52566 | |
| Q9H8H0 | P04792 | P26038 | P78371-2 | P31146 | |
| O75347 | P21291 | P31943 | Q15050 | P07996 | |
| P46778 | O75368 | P62266 | Q9Y3T9 | Q14019 | |
| P62158 | P68366 | P07339 | Q05048 | Q9Y3Z3-2 | |
| Q9Y224 | P05107 | Q02543 | P52597 | P05109 | |
| P39023 | P23141-1 | P60174-1 | P43034-1 | P08575-2 | |
| O00148 | Q9BV40 | P16070-15 | P00390-5 | P02671-2 | |
| O75947-2 | P31146 | Q9NSD9 | Q9UMX5 | P02768-1 | |
| Q9P2R7-2 | Q9UBR2 | P62191 | P08311 | P12544-2 | |
| Q9Y2W1 | P61626 | P60763 | P62805 | Q86UX7-2 | |
| Q13561-1 | P52566 | P78371-2 | Q15233 | P61626 | |
| P22392-1 | P16401 | P09622 | O75947-2 | P13796 | |
| Q15233 | P31930 | P07686 | Q02543 | P08514-3 | |
| Q07020 | P49736 | P53634-1 | P52292 | P68366 | |
| P06576 | P02671-2 | Q9UMX5 | Q14684-2 | P19971 | |
| Q15029-2 | P33993-1 | Q15149-7 | P54136-2 | Q14005-3 | |
| P25789-1 | Q9UL46 | P00390-5 | P61626 | P11215 | |
| Q9Y265-2 | P47756-2 | P61160 | O43660-2 | P06396-2 | |
| P09622 | P60709 | P29401 | Q15293 | Q9H299 | |
| P38919 | P50995 | P09661 | P49821-2 | P06702 | |
| Q9UHX1-4 | P28838-2 | Q9UIJ7-1 | P50990 | P50453 | |
| Q92945 | P18669 | O00115 | P35232 | P41218 | |
| P50990 | P38919 | P13798 | P46776 | O60234 | |
| P40227 | P41250 | P27144 | P00505 | P02775 | |
| P15311 | P61981 | P42704 | Q8N6T3-1 | P20292 | |
| Q15393-1 | P30086 | Q14157-4 | P62910 | P08246 | |
| Q15424 | P23528 | P04040 | P25789-1 | P05106-1 | |
| P35613-2 | Q96QK1 | P62917 | Q9Y3F4 | | |
| P52292 | Q53EL6 | Q7L014 | P25786-1 | | |
| Q7RTV0 | P49748-2 | Q16891-3 | P07305-2 | | |
| O43660-2 | Q13451 | Q9Y265-2 | P09661 | | |
| P08559-3 | Q16563-2 | P35659-1 | P10606 | | |
| Q99832-3 | P17858-1 | P06753-3 | P82979 | | |
| Q9UJZ1 | P27695 | P27797 | P60174-1 | | |
| P49321-1 | P07910-2 | O75947-2 | P0C0S5 | | |
| Q05048 | P61160 | P47914 | O75400-2 | | |
| Q13347 | P00558 | P43034-1 | Q8IZP2 | | |
| P22626-1 | Q15404-2 | P39687 | P62424 | | |
| P28072 | P04406 | P62910 | Q15149-7 | | |
| P62258-1 | Q96C19 | P35579-1 | P07910-2 | | |
| P19338 | P06744-1 | Q9UQ35-1 | P67936-1 | | |
| Q15050 | P36871-1 | P56181-2 | P35659-1 | | |
| Q01130 | Q16851-2 | O95777 | P28072 | | |
| Q9Y3F4 | A0FGR8-2 | P04066 | Q96BR5 | | |
| P17987 | P07384 | Q9BQ39 | P30405 | | |
| Q9Y3T9 | P08514-3 | P36542-2 | P46777 | | |
| P27635 | P13645 | Q13257 | P61254 | | |

| | | | | | |
|---|---|---|---|---|---|
| P12270 | P31153 | Q9Y5J9 | Q7L014 | | |
| P11310-1 | P50395-1 | P07910-2 | P31943 | | |
| P07910-2 | P61158 | P12268 | Q02878 | | |
| P10606 | Q13510-1 | Q9H9B4 | P62191 | | |
| Q99848 | O60568 | Q14684-2 | Q9H8H0 | | |
| P25786-1 | Q14141-2 | Q16629-3 | O75390 | | |
| Q13435 | P27797 | Q12849-5 | P28070 | | |
| P22307-2 | P11279 | P50990 | P14866-1 | | |
| P09661 | Q7Z4W1 | Q05048 | P11021 | | |
| P52272-2 | P13489 | Q15050 | P06576 | | |
| Q96C01 | Q96KP4-2 | O95433 | Q9UJZ1 | | |
| P62910 | Q15126 | Q9Y3T9 | P18124 | | |
| P32969 | P50897-2 | P62277 | P36578 | | |
| P78371-2 | P09525 | P09874 | P62266 | | |
| Q15019-1 | P07339 | P52292 | Q03252 | | |
| Q8N4H5 | P00491 | P05388 | P12270 | | |
| P35637-2 | Q14847-1 | P26639 | P10515 | | |
| P61254 | P15586 | Q9BUQ8 | P35637-2 | | |
| Q16531 | Q13576-1 | P62937 | Q15393-1 | | |
| Q00839-2 | P02538 | O75718 | P06744-1 | | |
| Q9UMS4 | P26447 | P62861 | P12268 | | |
| Q08945 | Q8NBJ7-5 | O75306 | P07339 | | |
| P14314-2 | P52209 | Q9NWS0-1 | Q15424 | | |
| P10809 | Q06323 | Q15393-1 | P26373 | | |
| P38117-1 | P07237 | P11021 | P52272-2 | | |
| P16403 | Q14019 | P28070 | Q8WUM4 | | |
| Q92841-1 | O60664-3 | P51659 | Q16531 | | |
| Q14974 | P35908 | Q9UKM9-2 | P18887 | | |
| Q9H3K6-2 | P04040 | Q9UBQ0-1 | Q92900-2 | | |
| P45880-2 | P09382 | P55072 | Q12931 | | |
| P04179-1 | P28062-2 | P40429 | Q9NSD9 | | |
| Q9H9B4 | Q86UX7-2 | Q15029-2 | P04792 | | |
| P48643 | Q7L591-1 | P20962 | Q13257 | | |
| P00505 | P11413-1 | Q99848 | Q9H307-1 | | |
| P61978-3 | Q96B97-1 | P25789-1 | P17980 | | |
| P10515 | P08575-2 | Q9Y3A5 | O75494-5 | | |
| P84103 | P13796 | O75367-2 | P61247 | | |
| O14979-3 | P24158 | Q6UXN9 | P38646 | | |
| P14866-1 | P30740 | O43660-2 | P40429 | | |
| P40926 | Q9ULZ3-3 | O75390 | Q99714-1 | | |
| P11177-2 | | P30405 | Q9UKM9-2 | | |
| P26373 | | Q8WWM7-6 | Q9Y2W1 | | |
| O43684-2 | | Q03252 | Q8N4H5 | | |
| Q96BR5 | | P23396 | P62979 | | |
| Q14978-1 | | P54577 | Q6UXN9 | | |
| Q13185 | | P11387 | Q15029-2 | | |
| Q9UQ35-1 | | Q9NQZ2 | P20618 | | |
| O75400-2 | | P68431 | Q13435 | | |
| P23246-1 | | P14314-2 | Q8IX12-2 | | |
| P35232 | | Q9H8H0 | Q00839-2 | | |
| P06748-3 | | P20618 | Q9NWS0-1 | | |
| P62424 | | P18887 | P42704 | | |
| P49207 | | P60709 | O95433 | | |
| P22102-2 | | P55884-1 | Q92945 | | |
| O00115 | | P19105 | O75718 | | |
| P49821-2 | | O15511-1 | P36542-2 | | |
| P62917 | | Q12906-5 | P62258-1 | | |
| Q8N6T3-1 | | Q9Y4L1 | Q14157-4 | | |
| P14678-2 | | Q15424 | Q92879-2 | | |
| Q16629-3 | | Q9NR30-2 | O14979-3 | | |
| Q12849-5 | | P14618-1 | P49321-1 | | |
| Q9NQZ2 | | Q99497 | Q09028-3 | | |
| P62805 | | P17980 | P29401 | | |
| P11387 | | P31930 | Q9BUQ8 | | |
| Q13813-3 | | P62316 | P43686-2 | | |
| Q02878 | | P46777 | Q9UII2-1 | | |
| O94788-2 | | Q96CT7 | P51659 | | |
| Q12931 | | P15586 | P23246-1 | | |
| P62316 | | Q01082-3 | Q13561-1 | | |
| P0C0S5 | | P25788-2 | P17987 | | |
| Q01082-3 | | Q9Y266 | P40926 | | |
| P09651-2 | | P40227 | P34897-3 | | |
| P13797 | | P23246-1 | P61224 | | |

| | | | | |
|---|---|---|---|---|
| P14854 | | P07237 | O95777 | |
| Q9Y5J9 | | P54819-5 | P22102-2 | |
| Q9H307-1 | | Q9UJZ1 | Q92499 | |
| Q9BVP2-2 | | Q14697-1 | P04066 | |
| P46776 | | P42765 | P05388 | |
| Q9NZI8 | | P25786-1 | P48444 | |
| P02545-3 | | P00505 | P10809 | |
| P47914 | | P10606 | P55884-1 | |
| Q13642-1 | | P49821-2 | Q9Y224 | |
| P31942-2 | | P48444 | Q9Y3A5 | |
| P00918 | | P38646 | P25788-2 | |
| P20962 | | O43818 | P15311 | |
| P32119-1 | | P62424 | P60900 | |
| P07355-1 | | P28072 | Q14137 | |
| P36578 | | Q9Y3F4 | P20700 | |
| Q15293 | | P40939 | P16070-15 | |
| P08670 | | Q9NVI7-3 | P25705 | |
| P07197 | | Q01081-4 | Q9UHX1-4 | |
| P06899 | | O94788-2 | P06753-3 | |
| P07196 | | P62979 | P61978-3 | |
| Q16630-3 | | P61254 | P14854 | |
| P60983 | | Q8IZP2 | Q8WWM7-6 | |
| Q12769-2 | | P13797 | P22626-1 | |
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| | | O43399-2 | Q12996-2 | | |
| | | O95140-1 | Q15814 | | |
| | | O75964 | Q6L8Q7-2 | | |
| | | Q13283 | Q96PU8-5 | | |
| | | Q9Y3D8-2 | Q15042-1 | | |
| | | Q15042-1 | P49755 | | |
| | | O00401 | Q5JRX3-1 | | |
| | | P14735-2 | P21281 | | |
| | | Q14166 | P11908-1 | | |
| | | O43865-2 | O43681 | | |
| | | P26196 | O94903 | | |
| | | Q92947-2 | Q96L92-2 | | |
| | | P00403 | P49589-2 | | |
| | | O14654 | O95602 | | |
| | | Q9C0J8-1 | O95140-1 | | |
| | | O00154-2 | P53618 | | |
| | | O15269-1 | P20645 | | |
| | | P61619-1 | Q5H9R7-3 | | |
| | | Q96CW1-2 | P41227 | | |
| | | O60841 | O94979-7 | | |
| | | Q5TBB1 | Q8WZA9 | | |
| | | P62195 | P37108 | | |
| | | P18085 | Q6PCE3 | | |
| | | O95163 | Q13617-1 | | |
| | | Q92542-2 | P53621-1 | | |
| | | P20839-2 | O95163 | | |
| | | P20339 | O14976 | | |
| | | Q9Y4W6 | Q7Z6Z7-2 | | |
| | | Q9NYV4-3 | Q9NP72-1 | | |
| | | Q9BVG4 | O43747-1 | | |
| | | Q9Y2X3 | Q93009-1 | | |

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|---|---|---|---|
| | | P55769 | Q15631 |
| | | Q9Y6Y8-2 | Q13283 |
| | | O15067 | Q9BTZ2-4 |
| | | Q9Y5X3 | P63010-1 |
| | | Q96RE7 | O96008-2 |
| | | Q93009-1 | Q09472 |
| | | Q12824-2 | O15173 |
| | | Q8N3U4-1 | Q96ST3 |
| | | Q6PKG0-3 | Q8TAQ2-2 |
| | | Q92734 | P27694 |
| | | Q92544 | Q9UJV9 |
| | | O60762 | Q15418-1 |
| | | Q9UJV9 | Q13107-2 |
| | | O00507-2 | O00232-2 |
| | | Q9Y679-3 | Q12824-2 |
| | | P39748 | Q8TB03-3 |
| | | O95168-2 | Q15020-1 |
| | | P23919 | P53041 |
| | | Q6P2E9-1 | P16150 |
| | | P51572-1 | Q8N1G4 |
| | | Q99986 | P19623 |
| | | O15173 | P30038-2 |
| | | Q9H3N1 | Q96LX7-2 |
| | | Q9BTE6-1 | Q13555-10 |
| | | Q3ZAQ7-1 | Q6XQN6-3 |
| | | Q9UBX3-1 | P47897 |
| | | P62314 | P00441 |
| | | Q7Z6Z7-2 | Q92667-2 |
| | | O76094 | Q12907 |
| | | Q9BY44-1 | P20339 |
| | | Q9Y6A4 | Q9BVK6 |
| | | Q96N67-4 | Q9H4A4 |
| | | Q9BXJ9-4 | Q92947-2 |
| | | O75027-1 | O75533 |
| | | Q9NR28-2 | Q99986 |
| | | Q9Y333 | P61619-1 |
| | | Q9Y6E2 | O95336 |
| | | Q01650 | O00487 |
| | | Q7L592-2 | Q9NUQ8-2 |
| | | P26368-2 | Q9BTW9-5 |
| | | Q8IY37 | O75844 |
| | | Q13617-1 | O15067 |
| | | Q9H1K4 | Q9HAB8 |
| | | Q5JRX3-1 | Q13637 |
| | | A5YKK6-4 | Q9Y6A5 |
| | | P56385 | P06737 |
| | | P46783 | Q9NTX5-3 |
| | | O14787-2 | Q14204 |
| | | O00505 | Q9BVJ7 |
| | | Q9H074-2 | Q8N3U4-1 |
| | | Q9Y5M8 | P26583 |
| | | Q9HC07 | Q9Y4W6 |
| | | Q9HB07 | Q7L0Y3 |
| | | Q13526 | Q13505-3 |
| | | O00255-3 | Q8N1G2 |
| | | Q96PU8-5 | Q14166 |
| | | Q9H3U1-2 | P25685 |
| | | Q13505-3 | P01023 |
| | | A6NHR9-1 | P61019-1 |
| | | Q969V3-2 | P49756-2 |
| | | O95602 | Q9UNZ2-4 |
| | | P62857 | Q99447 |
| | | O75533 | Q8NHP1-1 |
| | | Q96ST3 | O60762 |
| | | Q7L2H7 | P23919 |
| | | P33176 | Q13765 |
| | | Q15056-2 | P78344-2 |
| | | P53041 | O75821 |
| | | P78344-2 | Q9Y2X3 |
| | | Q9P2J5 | Q9Y295 |
| | | Q86UP2-2 | Q13951-1 |
| | | Q9Y5B9 | O14787-2 |
| | | Q13765 | P33176 |

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|---|---|---|---|---|---|
| | | P56270-2 | Q9NVH1-3 | | |
| | | O60493-2 | Q9BUP3-2 | | |
| | | O75844 | O43464-4 | | |
| | | O75607 | P05496 | | |
| | | O43776 | Q15102 | | |
| | | Q12874 | P51572-1 | | |
| | | Q02880-2 | Q9Y6Y8-2 | | |
| | | Q9Y295 | O76094 | | |
| | | Q8TCT9-5 | Q7L2H7 | | |
| | | Q6KC79-2 | Q9UHY7-1 | | |
| | | O43765 | Q13123 | | |
| | | O14744-2 | P51570 | | |
| | | Q14204 | Q92542-2 | | |
| | | P05496 | Q16555 | | |
| | | Q14980-4 | Q96RP9-1 | | |
| | | O00418 | P62314 | | |
| | | Q9H9A6 | P39748 | | |
| | | P35080-2 | Q7L592-2 | | |
| | | Q9NVH1-3 | O43292-2 | | |
| | | Q9NZ01-1 | Q9NVU7-2 | | |
| | | P62318 | Q9H9A6 | | |
| | | P12235 | Q92734 | | |
| | | Q9NVU7-2 | Q9Y6A4 | | |
| | | P69849 | Q9Y5B9 | | |
| | | Q09472 | P26196 | | |
| | | P16435 | P50402 | | |
| | | Q9NTJ3-2 | P26368-2 | | |
| | | Q9UBB4-2 | P55769 | | |
| | | Q92878-3 | Q6PKG0-3 | | |
| | | O96008-2 | Q9NZ01-1 | | |
| | | P49915 | Q9BY44-1 | | |
| | | Q9UNF1-2 | O75607 | | |
| | | Q96RP9-1 | O75436 | | |
| | | P48507 | Q9H074-2 | | |
| | | P43246 | Q8TEM1-1 | | |
| | | Q92667-2 | P46783 | | |
| | | Q9Y617-2 | A6NHR9-1 | | |
| | | Q96EY4 | Q13526 | | |
| | | P42766 | P62195 | | |
| | | P28370-2 | P16435 | | |
| | | P54709 | P18085 | | |
| | | Q02809 | Q8IY37 | | |
| | | Q6NUQ4-2 | O75027-1 | | |
| | | Q7L0Y3 | Q9UNF1-2 | | |
| | | O43464-4 | O43776 | | |
| | | Q15738 | O15397-1 | | |
| | | P31483-2 | Q96EY4 | | |
| | | O15397-1 | O14744-2 | | |
| | | Q8WUA2 | Q14165 | | |
| | | Q96KR1 | O43592 | | |
| | | P04818 | Q14980-4 | | |
| | | Q15459 | Q13243-1 | | |
| | | P18583-6 | Q969V3-2 | | |
| | | P42285 | P14324 | | |
| | | P10599 | P54709 | | |
| | | P50897-2 | Q15459 | | |
| | | Q06265-3 | Q9Y6E2 | | |
| | | Q15021 | O00505 | | |
| | | Q00341 | Q08752 | | |
| | | Q7Z4K8-3 | Q96RE7 | | |
| | | Q9NVP1 | O60841 | | |
| | | P55060-3 | Q9P035 | | |
| | | Q9NU22 | Q9Y3D8-2 | | |
| | | Q9UNX4 | Q13724 | | |
| | | O43324 | Q99519 | | |
| | | Q8N983-4 | Q9H3U1-2 | | |
| | | Q14676-4 | Q96N67-4 | | |
| | | O00422 | P51809-3 | | |
| | | Q9P035 | P14735-2 | | |
| | | Q14690 | Q99536 | | |
| | | Q8WU90 | P62857 | | |
| | | O14647-2 | Q92896-1 | | |
| | | Q16576-1 | Q9BV44 | | |

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|---|---|---|---|---|---|
| | | P23921 | Q9Y5X3 | | |
| | | Q86UK7-2 | P26640 | | |
| | | Q9H9Y6-2 | P10599 | | |
| | | Q9BQG0-1 | Q3ZAQ7-1 | | |
| | | Q8WTV0-3 | Q6FI81-3 | | |
| | | | Q9Y240 | | |
| | | | P20839-2 | | |
| | | | Q15056-2 | | |
| | | | Q9Y5M8 | | |
| | | | Q02880-2 | | |
| | | | Q9Y333 | | |
| | | | O43765 | | |
| | | | Q9NR28-2 | | |
| | | | Q9BQG0-1 | | |
| | | | Q96KR1 | | |
| | | | P69849 | | |
| | | | Q92878-3 | | |
| | | | P31483-2 | | |
| | | | Q7Z4K8-3 | | |
| | | | Q9BTE6-1 | | |
| | | | Q02809 | | |
| | | | Q7L576-3 | | |
| | | | P55060-3 | | |
| | | | P42285 | | |
| | | | Q9BRP4-3 | | |
| | | | Q8NBJ7-5 | | |
| | | | Q5TBB1 | | |
| | | | Q06330-3 | | |
| | | | Q9H9Y6-2 | | |
| | | | Q8WU90 | | |
| | | | Q9UNX4 | | |
| | | | P42766 | | |
| | | | Q9BXJ9-4 | | |
| | | | O14647-2 | | |
| | | | Q6KC79-2 | | |
| | | | O60493-2 | | |
| | | | Q9P2J5 | | |
| | | | Q99848 | | |
| | | | Q00341 | | |
| | | | Q9HB07 | | |
| | | | Q15382 | | |
| | | | O43847-1 | | |
| | | | Q9NVP1 | | |
| | | | Q6NUQ4-2 | | |
| | | | P43246 | | |
| | | | Q86UK7-2 | | |
| | | | Q9NTJ3-2 | | |
| | | | Q8N983-4 | | |
| | | | P28370-2 | | |
| | | | P48595 | | |
| | | | Q9BVG4 | | |
| | | | O00154-2 | | |
| | | | Q9HC07 | | |
| | | | Q14690 | | |
| | | | Q16822-1 | | |
| | | | Q12849-5 | | |
| | | | O00418 | | |
| | | | O43324 | | |
| | | | O00422 | | |
| | | | Q92544 | | |
| | | | Q06265-3 | | |
| | | | Q8NBL1 | | |
| | | | Q15738 | | |
| | | | Q14676-4 | | |
| | | | Q01650 | | |
| | | | Q9UBB4-2 | | |
| | | | P18583-6 | | |
| | | | O15427 | | |
| | | | Q15021 | | |
| | | | Q9NU22 | | |
| | | | Q6P2E9-1 | | |
| | | P23921 | P23921 | | |
| | | Q86UK7-2 | P30533 | | |

| | | | P49915 | | |
|---|---|---|---|---|---|
| | | | Q9UBX3-1 | | |
| | | | Q9UM22-2 | | |
| | | | P48507 | | |
| | | | Q8TCT9-5 | | |
| | | | Q9Y617-2 | | |
| | | | P02792 | | |
| | | | Q16576-1 | | |
| | | | P04818 | | |
| | | | Q8WTV0-3 | | |
| | | | P78329 | | |
| | | | P50897-2 | | |

**Supplementary Table S10.** Comparison of functional annotation results for the proteins that are of higher levels in the cell lines in quantitative pairwise analysis of HEK293, U937 and PBMCs. Enrichment of KEGG_PATHWAY categories performed in DAVID Bioinformatics Resources 6.7; thresholds: Count=2, EASE=0.01 ([*]EASE≤0.02, [**]EASE≤0.1).

| KEGG pathway map | | | Term | Count | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 114/ 115 | 115/ 114 | 114/ (116-117) | 115/ (116-117) | (116-117)/ 114[*] | (116-117)/ 115[**] |
| 1. Metabolism | 1.0 Global and overview maps | 1.0 | hsa00071:Fatty acid metabolism | | | 15 | 17 | | |
| | 1.1 Carbohydrate metabolism | 1.1 | hsa00010:Glycolysis / Gluconeogenesis | | 7 | 20 | 23 | | |
| | | 1.1 | hsa00020:Citrate cycle (TCA cycle) | 9 | | 18 | 20 | | |
| | | 1.1 | hsa00030:Pentose phosphate pathway | | 6 | | 11 | | |
| | | 1.1 | hsa00052:Galactose metabolism | | 5 | | | | |
| | | 1.1 | hsa00500:Starch and sucrose metabolism | | 5 | | | | |
| | | 1.1 | hsa00520:Amino sugar and nucleotide sugar metabolism | | | 13 | 15 | | |
| | | 1.1 | hsa00620:Pyruvate metabolism | 6 | | 16 | 16 | | |
| | | 1.1 | hsa00630:Glyoxylate anddicarboxylate metabolism | | | | 7 | | |
| | | 1.1 | hsa00640:Propanoate metabolism | | | 12 | 12 | | |
| | 1.2 Energy metabolism | 1.2 | hsa00190:Oxidative phosphorylation | 15 | | 36 | 32 | | |
| | 1.3 Lipid metabolism | 1.3 | hsa00062:Fatty acid elongation in mitochondria | | | 6 | 6 | | |
| | 1.5 Amino acid metabolism | 1.5 | hsa00250:Alanine, aspartate and glutamate metabolism | | | 10 | | | |
| | | 1.5 | hsa00270:Cysteine and methionine metabolism | | | 11 | 12 | | |
| | | 1.5 | hsa00280:Valine, leucine and isoleucine degradation | | | 16 | 16 | | |
| | | 1.5 | hsa00290:Valine, leucine and isoleucine biosynthesis | | | 6 | 6 | | |
| | 1.8 Metabolism of cofactors and vitamins | 1.8 | hsa00670:One carbon pool by folate | | | 7 | 7 | | |
| 2. Genetic information processing | 2.1 Transcription | 2.1 | hsa03040:Spliceosome | 39 | | 66 | 67 | | |
| | 2.2 Translation | 2.2 | hsa00970:Aminoacyl tRNA biosynthesis | | | 19 | 20 | | |
| | | 2.2 | hsa03010:Ribosome | 25 | | 67 | 65 | | |
| | 2.3 Folding, sorting and degradation | 2.3 | hsa03018:RNA degradation | | | 15 | 17 | | |
| | | 2.3 | hsa03050:Proteasome | | | 24 | 25 | | |
| 3. Environmental information processing | 3.3 Signaling molecules and interaction | 3.3 | hsa04512:ECM receptor interaction | | | | | 3 | 2 |
| 4. Cellular processes | 4.1 Transport and catabolism | 4.1 | hsa04142:Lysosome | | 7 | 24 | | | |
| | 4.2 Cell motility | 4.2 | hsa04810:Regulation of actin cytoskeleton | | | | | 4 | |
| 5. Organismal systems | 5.1 Immune system | 5.1 | hsa04640:Hematopoietic cell lineage | | | | | 3 | |
| 6. Human diseases | 6.4 Neurodegenerative diseases | 6.4 | hsa05010:Alzheimer's disease | 16 | | 39 | 35 | | |
| | | 6.4 | hsa05012:Parkinson's disease | 19 | | 42 | 37 | | |
| | | 6.4 | hsa05016:Huntington's disease | 22 | | 53 | 45 | | |
| | 6.8 Infectious diseases: Bacterial | 6.8 | hsa05130:Pathogenic Escherichia coli infection | | | 17 | 21 | | |

**Supplementary Table S11.**Comparison of functional annotation results for the quantitative analysis of proteomes from 3 different cell lines: HEK293, U937 and PBMCs. Enrichment of GENETIC_ASSOCIATION_DB_DISEASE categories performed in DAVID Bioinformatics Resources 6.7; thresholds: Count=2, EASE=0.05.

| Term | Count | | | | | |
|---|---|---|---|---|---|---|
| | 114/115 | 115/114 | 114/ (116-117) | 115/ (116-117) | (116-117)/ 114 | (116-117)/ 115 |
| Aalpha and gamma fibrinogen plasma levels | | | | | 2 | |
| atherosclerosis, coronary atherosclerosis, generalized | | | | | 2 | |
| atherosclerosis, coronary; tuberculosis | | | 3 | 4 | | |
| benign breast disease breast cancer | 2 | | | | | |
| cerebrovascular disease; sickle cell anemia | | | | | 3 | |
| coronary artery stent thrombosis | | | | | 2 | |
| diabetes, type 1 | | 6 | | | | |
| endometrial cancer; cervical cancer; radiosensitivity, clinical | 2 | | | | | |
| fibrinogen | | | | | 2 | |
| fibrinogen heart disease, ischemic tissue plasminogen activator level | | | | | 2 | |
| fibrinogen Il-6 myocardial infarct | | | | | 2 | |
| fibrinogen myocardial infarct | | | | | 2 | |
| lymphoproliferative disorders; blood transfusion complications | | | | | 2 | |
| metabolism disorders | | | | | | 2 |
| metabolism disorders; myocardial infarction; stroke, ischemic | | | | | 2 | |
| myocardial infarct | | | | | 6 | |
| myocardial infarct; atherosclerosis, coronary | | | | | 3 | |
| myocardial infarct; lymphoproliferative disorders; restenosis | | | | | 2 | |
| myocardial infarct; thromboembolism, venous; thrombosis, deep vein | | | | | 2 | |
| myocardial infarction | | | | | 4 | |
| myocardial infarction; stroke | | | | | 2 | |
| Parkinson's disease | 6 | | | | | |
| skin lesions, arsenic-induced | | | | 3 | | |
| stroke | | | | | 3 | |
| stroke, ischemic | | | | | 4 | |