

Table S2

Proteins significantly changed in proteome analysis of hypoxia-treated hPASCs

UniProtKB ID	Gene name	Protein name	Fold change
Q15904	<i>ATP6AP1</i>	V-type proton ATPase subunit S1	1.62
Q9BY76	<i>ANGPTL4</i>	Angiopoietin-related protein 4	1.44
O43570	<i>CA12</i>	Carbonic anhydrase 12	1.44
O00743	<i>PPP6C</i>	Serine/threonine-protein phosphatase 6 catalytic subunit	1.42
Q8NB37	<i>GATD1</i>	Glutamine amidotransferase-like class 1 domain-containing protein 1	1.42
Q9UJJ9	<i>GNPTG</i>	N-acetylglucosamine-1-phosphotransferase subunit gamma	1.39
Q7Z5L9	<i>IRF2BP2</i>	Interferon regulatory factor 2-binding protein 2	1.32
A6NFQ2	<i>TCAF2</i>	TRPM8 channel-associated factor 2	1.32
P02794	<i>FTH1</i>	Ferritin heavy chain	1.30
Q15796	<i>SMAD2</i>	Mothers against decapentaplegic homolog 2	1.29
Q9UJW0	<i>DCTN4</i>	Dynactin subunit 4	1.29
O00506	<i>STK25</i>	Serine/threonine-protein kinase 25	1.25
P05155	<i>SERPING1</i>	Plasma protease C1 inhibitor	1.24
Q9NR46	<i>SH3GLB2</i>	Endophilin-B2	1.23
Q9H9E3	<i>COG4</i>	Conserved oligomeric Golgi complex subunit 4	1.23
P12277	<i>CKB</i>	Creatine kinase B-type	1.22
O43294	<i>TGFB1I1</i>	Transforming growth factor beta-1-induced transcript 1 protein	1.22
Q9Y4P3	<i>TBL2</i>	Transducin beta-like protein 2	1.18
P09104	<i>ENO2</i>	Gamma-enolase	1.18
Q6NUM9	<i>RETSAT</i>	All-trans-retinol 13,14-reductase	1.18
Q96JY6	<i>PDLIM2</i>	PDZ and LIM domain protein 2	1.18
O15530	<i>PDPK1</i>	3-phosphoinositide-dependent protein kinase 1	1.17
P11166	<i>SLC2A1</i>	Solute carrier family 2, facilitated glucose transporter member 1	1.16
Q96BP3	<i>PPWD1</i>	Peptidylprolyl isomerase domain and WD repeat-containing protein 1	1.16
Q06033	<i>ITIH3</i>	Inter-alpha-trypsin inhibitor heavy chain H3	1.15
Q3LXA3	<i>TKFC</i>	Triokinase/FMN cyclase	1.15
Q96L34	<i>MARK4</i>	MAP/microtubule affinity-regulating kinase 4	1.15
P11498	<i>PC</i>	Pyruvate carboxylase, mitochondrial	1.14
Q92615	<i>LARP4B</i>	La-related protein 4B	1.14
P49593	<i>PPM1F</i>	Protein phosphatase 1F	1.14
Q9NVS2	<i>MRPS18A</i>	39S ribosomal protein S18a, mitochondrial	1.14
P17813	<i>ENG</i>	Endoglin	1.13
P09341	<i>CXCL1</i>	Growth-regulated alpha protein	1.13

P21399	<i>ACO1</i>	Cytoplasmic aconitate hydratase	1.13
O75368	<i>SH3BGRL</i>	SH3 domain-binding glutamic acid-rich-like protein	1.13
Q9UBY9	<i>HSPB7</i>	Heat shock protein beta-7	1.12
P48163	<i>ME1</i>	NADP-dependent malic enzyme	1.12
P14384	<i>CPM</i>	Carboxypeptidase M	1.12
P17342	<i>NPR3</i>	Atrial natriuretic peptide receptor 3	1.12
Q9NZN4	<i>EHD2</i>	EH domain-containing protein 2	1.12
Q07960	<i>ARHGAP1</i>	Rho GTPase-activating protein 1	1.12
P08572	<i>COL4A2</i>	Collagen alpha-2	1.12
Q8IY33	<i>MICAL2</i>	MICAL-like protein 2	1.12
Q86TI2	<i>DPP9</i>	Dipeptidyl peptidase 9	1.12
P52789	<i>HK2</i>	Hexokinase-2	1.12
P07741	<i>APRT</i>	Adenine phosphoribosyltransferase	1.11
P24844	<i>MYL9</i>	Myosin regulatory light polypeptide 9	1.11
Q9P2B2	<i>PTGFRN</i>	Prostaglandin F2 receptor negative regulator	1.11
Q9GZU8	<i>PSME3IP1</i>	PSME3-interacting protein	0.91
Q9BVG4	<i>PBDC1</i>	Protein PBDC1	0.91
P05166	<i>PCCB</i>	Propionyl-CoA carboxylase beta chain, mitochondrial	0.91
O94826	<i>TOMM70</i>	Mitochondrial import receptor subunit TOM70	0.91
Q9NPJ3	<i>ACOT13</i>	Acyl-coenzyme A thioesterase 13	0.91
Q12849	<i>GRSF1</i>	G-rich sequence factor 1	0.91
Q13573	<i>SNW1</i>	SNW domain-containing protein 1	0.91
Q15758	<i>SLC1A5</i>	Neutral amino acid transporter B	0.91
Q96H20	<i>SNF8</i>	Vacuolar-sorting protein SNF8	0.90
P02786	<i>TFRC</i>	Transferrin receptor protein 1	0.90
P22626	<i>HNRNPA2B1</i>	Heterogeneous nuclear ribonucleoproteins A2/B1	0.90
O43242	<i>PSMD3</i>	26S proteasome non-ATPase regulatory subunit 3	0.90
P56537	<i>EIF6</i>	Eukaryotic translation initiation factor 6	0.90
Q9Y5B9	<i>SUPT16H</i>	FACT complex subunit SPT16	0.90
Q9NRF8	<i>CTPS2</i>	CTP synthase 2	0.90
Q96KR1	<i>ZFR</i>	Zinc finger RNA-binding protein	0.90
Q7Z417	<i>NUFIP2</i>	Nuclear fragile X mental retardation-interacting protein 2	0.89
Q9B XK5	<i>BCL2L13</i>	Bcl-2-like protein 13	0.89
Q12907	<i>LMAN2</i>	Vesicular integral-membrane protein VIP36	0.89
O60832	<i>DKC1</i>	H/ACA ribonucleoprotein complex subunit DKC1	0.89
E9PAV3	<i>NACA</i>	Nascent polypeptide-associated complex subunit alpha, muscle-specific form	0.89
P12109	<i>COL6A1</i>	Collagen alpha-1	0.89
Q14839	<i>CHD4</i>	Chromodomain-helicase-DNA-binding protein 4	0.89
P30050	<i>RPL12</i>	60S ribosomal protein L12	0.89
P67809	<i>YBX1</i>	Y-box-binding protein 1	0.89
Q9BUQ8	<i>DDX23</i>	Probable ATP-dependent RNA helicase DDX23	0.89

P04179	<i>SOD2</i>	Superoxide dismutase [Mn], mitochondrial	0.88
Q96EL3	<i>MRPL53</i>	39S ribosomal protein L53, mitochondrial	0.88
Q07021	<i>C1QBP</i>	Complement component 1 Q subcomponent-binding protein, mitochondrial	0.88
P60660	<i>MYL6</i>	Myosin light polypeptide 6	0.87
P82650	<i>MRPS22</i>	28S ribosomal protein S22, mitochondrial	0.87
Q14444	<i>CAPRIN1</i>	Caprin-1	0.87
Q99757	<i>TXN2</i>	Thioredoxin, mitochondrial	0.87
P21397	<i>MAOA</i>	Amine oxidase [flavin-containing] A	0.87
Q6NUK1	<i>SLC25A24</i>	Calcium-binding mitochondrial carrier protein SCaMC-1	0.87
P61812	<i>TGFB2</i>	Transforming growth factor beta-2 proprotein	0.86
Q13243	<i>SRSF5</i>	Serine/arginine-rich splicing factor 5	0.86
Q9UMY1	<i>NOL7</i>	Nucleolar protein 7	0.86
O14817	<i>TSPAN4</i>	Tetraspanin-4	0.86
Q9UII2	<i>ATP5IF1</i>	ATPase inhibitor, mitochondrial	0.86
Q10471	<i>GALNT2</i>	Polypeptide N-acetylgalactosaminyltransferase 2	0.86
Q92520	<i>FAM3C</i>	Protein FAM3C	0.86
Q13610	<i>PWPI</i>	Periodic tryptophan protein 1 homolog	0.85
P84090	<i>ERH</i>	Enhancer of rudimentary homolog	0.85
P67936	<i>TPM4</i>	Tropomyosin alpha-4 chain	0.85
Q14978	<i>NOLC1</i>	Nucleolar and coiled-body phosphoprotein 1	0.85
O14494	<i>PLPP1</i>	Phospholipid phosphatase 1	0.85
Q9NX58	<i>LYAR</i>	Cell growth-regulating nucleolar protein	0.85
Q9NY27	<i>PPP4R2</i>	Serine/threonine-protein phosphatase 4 regulatory subunit 2	0.85
Q5BKZ1	<i>ZNF326</i>	DBIRD complex subunit ZNF326	0.83
P20674	<i>COX5A</i>	Cytochrome c oxidase subunit 5A, mitochondrial	0.83
P09493	<i>TPM1</i>	Tropomyosin alpha-1 chain	0.83
P63098	<i>PPP3R1</i>	Calcineurin subunit B type 1	0.82
Q96EI5	<i>TCEAL4</i>	Transcription elongation factor A protein-like 4	0.82
Q9NPJ1	<i>MKKS</i>	McKusick-Kaufman/Bardet-Biedl syndromes putative chaperonin	0.82
P09497	<i>CLTB</i>	Clathrin light chain B	0.82
O15155	<i>BET1</i>	BET1 homolog	0.81
P63313	<i>TMSB10</i>	Thymosin beta-10	0.81
Q15293	<i>RCN1</i>	Reticulocalbin-1	0.81
Q15018	<i>ABRAXAS2</i>	BRISC complex subunit Abraxas 2	0.81
P10606	<i>COX5B</i>	Cytochrome c oxidase subunit 5B, mitochondrial	0.80
P07919	<i>UQCRH</i>	Cytochrome b-c1 complex subunit 6, mitochondrial	0.80
P49755	<i>TMED10</i>	Transmembrane emp24 domain-containing protein 10	0.80
Q99715	<i>COL12A1</i>	Collagen alpha-1	0.80
P05114	<i>HMGN1</i>	Non-histone chromosomal protein HMG-14	0.79
Q9P2N5	<i>RBM27</i>	RNA-binding protein 27	0.79

Q9H0A0	<i>NAT10</i>	RNA cytidine acetyltransferase	0.79
P05997	<i>COL5A2</i>	Collagen alpha-2	0.79
P60903	<i>S100A10</i>	Protein S100-A10	0.79
P30049	<i>ATP5F1D</i>	ATP synthase subunit delta, mitochondrial	0.78
P07602	<i>PSAP</i>	Prosaposin	0.77
P20962	<i>PTMS</i>	Parathymosin	0.76
P08123	<i>COL1A2</i>	Collagen alpha-2	0.75
P09496	<i>CLTA</i>	Clathrin light chain A	0.75
Q02818	<i>NUCB1</i>	Nucleobindin-1	0.75
P09486	<i>SPARC</i>	SPARC	0.75
P80723	<i>BASP1</i>	Brain acid soluble protein 1	0.74
P21127	<i>CDK11B</i>	Cyclin-dependent kinase 11B	0.73
P0DP25	<i>CALM3</i>	Calmodulin-3	0.72
Q9GZT3	<i>SLIRP</i>	SRA stem-loop-interacting RNA-binding protein, mitochondrial	0.71
P02461	<i>COL3A1</i>	collagen type III, alpha-1 chain	0.71
Q96A49	<i>SYAP1</i>	Synapse-associated protein 1	0.69
P20908	<i>COL5A1</i>	Collagen alpha-1(V)	0.67
Q15121	<i>PEA15</i>	Astrocytic phosphoprotein PEA-15	0.63
Q8N5N7	<i>MRPL50</i>	39S ribosomal protein L50, mitochondrial	0.62
P02452	<i>COL1A1</i>	Collagen alpha-1	0.53