

Supplementary Table 2S. Biological processes and molecular functions of high-confidence protein identification according to Ingenuity Pathway Analysis software.

Accession #	Name	TPC1	CAL62	Species	Biological Processes	Molecular Functions	PANTHER ID
spt P05067 A4_HUMAN	Amyloid beta A4 protein precursor (APP)	#	#	Homo sapiens	Signal transduction->Cell communication;Signal transduction->Other signal transduction;Intracellular protein traffic->Other intracellular protein traffic	Signaling molecule->Other signaling molecule	PTHR23103:SF7
trm Q9BT36 Q9BT36_HUMAN	Amyloid-like protein 2 (APLP2)	#	#	Homo sapiens	Developmental processes->Other developmental process	Molecular function unclassified	PTHR23103:SF6
spt P10909 CLUS_HUMAN	Clusterin	#	#	Homo sapiens	Apoptosis	Molecular function unclassified	PTHR10970:SF1
spt P01034 CYTC_HUMAN	Cystatin C	#	#	Homo sapiens	Protein metabolism and modification->Proteolysis	Select regulatory molecule->Protease inhibitor->Cysteine protease inhibitor	PTHR11413:SF23
trm Q969J9 Q969J9_HUMAN	Dystroglycan	#	#	Homo sapiens	Signal transduction->Cell communication->Extracellular matrix protein-mediated signaling	Receptor->Other receptor	PTHR21559:SF9
spt Q08380 LG3BP_HUMAN	Galectin-3-binding protein	#	#	Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Immunity and defense->Macrophage-mediated immunity	Receptor->Other receptor	PTHR19331:SF8
spt P31431 SDC4_HUMAN	Syndecan-4 precursor (SYND4)	#	#	Homo sapiens	Developmental processes->Mesoderm development->Skeletal development;Cell adhesion;Immunity and defense->Macrophage-mediated immunity	Cytoskeletal protein;Cell adhesion molecule->Other cell adhesion molecule;Extracellular matrix glycoprotein;Defense/immunity protein->Other defense and immunity protein	PTHR10915:SF3

trm Q5H9A7 Q5H9A7_HUMAN	Tissue inhibitor of metalloproteinase 1 (TIMP1)	#	#	Homo sapiens	Protein metabolism and modification->Proteolysis;Developmental processes->Other developmental process	Select regulatory molecule->Protease inhibitor->Metalloprotease inhibitor	PTHR11844: SF5
trm Q5UE58_HUMAN	Calsyntenin-1	#	#	Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Cell adhesion	Select calcium binding protein;Cell adhesion molecule	PTHR14139
spt P19338 NUCL_HUMAN	Nucleolin		#	Homo sapiens	Nucleoside, nucleotide and nucleic acid metabolism->rRNA metabolism	Nucleic acid binding->Other RNA-binding protein	PTHR10432: SF62
trm Q6FHZ5 Q6FHZ5_HUMAN	SET protein		#	Homo sapiens	Nucleoside, nucleotide and nucleic acid metabolism->DNA metabolism->DNA replication;Apoptosis;Cell cycle->DNA replication;Nucleoside, nucleotide and nucleic acid metabolism->Chromatin packaging and remodeling	Select regulatory molecule->Phosphatase modulator->Phosphatase inhibitor	PTHR11875: SF9
trm Q1HGM9 Q1HGM9_HUMAN	Activated leukocyte cell adhesion molecule (ALCAM)	#	#	Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Developmental processes->Ectoderm development->Neurogenesis;Cell adhesion	Cell adhesion molecule->CAM family adhesion molecule	PTHR11973: SF2
spt O00468 AGRIN_HUMAN	Agrin	#		Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Signal transduction->Cell communication->Extracellular matrix protein-mediated signaling	Receptor->Other receptor	PTHR10574: SF10
trm Q6IAT8 Q6IAT8_HUMAN	Beta-2-microglobulin protein (B2M)	#		Homo sapiens	Immunity and defense->T-cell mediated immunity->MHCII-mediated immunity	Defense/immunity protein->Major histocompatibility complex antigen	PTHR19944: SF16
spt P43251	Biotinidase precursor	#		Homo	Coenzyme and prosthetic	Hydrolase->Other	PTHR10609:

				sapiens	group metabolism->Vitamin metabolism	hydrolase	SF2
trm Q59FG9 Q59FG9_HUMAN	Versican	#		Homo sapiens	Signal transduction->Cell communication->Extracellular matrix protein-mediated signaling;Cell proliferation and differentiation;Cell structure and motility->Cell motility	Extracellular matrix->Extracellular matrix glycoprotein	PTHR22804:SF6
trm Q53FA4 Q53FA4_HUMAN	Cysteine-rich, angiogenic inducer, 61 variant	#		Homo sapiens	Signal transduction->Cell communication->Ligand-mediated signaling;Developmental processes->Mesoderm development->Angiogenesis;Cell proliferation and differentiation;Cell structure and motility->Cell motility;Oncogenesis->Other oncogenesis;Cell cycle->Cell cycle control;Signal transduction->Cell surface receptor mediated signal transduction	Signaling molecule->Growth factor	PTHR11348:SF6
trm Q53FT9 Q53FT9_HUMAN	Enolase 1	#	#	Homo sapiens	Carbohydrate metabolism->Glycolysis	Lyase	PTHR11902
spt P02751 FINC_HUMAN	Fibronectin		#	Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Signal transduction->Cell communication->Extracellular matrix protein-mediated signaling;Intracellular protein traffic->Endocytosis->Phagocytosis;Cell adhesion;Cell structure and motility->Cell structure	Cell adhesion molecule;Extracellular matrix->Extracellular matrix linker protein	PTHR19143:SF6
spt Q92820 GGH_HUMAN	Gamma-glutamyl hydrolase	#		Homo sapiens	Coenzyme and prosthetic group metabolism->Vitamin metabolism	Hydrolase->Other hydrolase;Protease->Cysteine protease	PTHR11315

trm Q0JV14 Q0JV14_HUMAN	Osteopontin (SPP1)	#		Homo sapiens	Cell adhesion;Cell structure and motility->Cell structure	Signaling molecule->Cytokine->Other cytokine;Defense/immunity protein;Cell adhesion molecule;Extracellular matrix->Other extracellular matrix	PTHR10607
spt Q16270 IBP7_HUMAN	Insulin-like growth factor-binding protein 7 (IGFBP-7)	#		Homo sapiens	Cell proliferation and differentiation	Miscellaneous function	PTHR14186: SF6
trm Q92626 Q92626_HUMAN	Melanoma-associated antigen	#		Homo sapiens	Other metabolism;Immunity and defense->Antioxidation and free radical removal	Oxidoreductase->Peroxidase	PTHR11475: SF9
spt P16035 TIMP2_HUMAN	Metalloproteinase inhibitor 2 (TIMP-2)	#	#	Homo sapiens	Protein metabolism and modification->Proteolysis	Select regulatory molecule->Protease inhibitor->Metalloprotease inhibitor	PTHR11844: SF7
spt P14543 NID1_HUMAN	Nidogen-1	#		Homo sapiens	Cell adhesion	Extracellular matrix->Extracellular matrix glycoprotein	PTHR10529: SF5
trm Q53GX6 Q53GX6_HUMAN	Nucleobindin 1	#		Homo sapiens	Homeostasis->Calcium ion homeostasis	Nucleic acid binding;Select calcium binding protein->Annexin;Select calcium binding protein->Calmodulin related protein	PTHR19237: SF4
spt P06748 NPM_HUMAN	Nucleophosmin (NPM)	#		Homo sapiens	Nucleoside, nucleotide and nucleic acid metabolism->rRNA metabolism	Chaperone->Other chaperones	PTHR22747: SF2
trm Q5SWW9 Q5SWW9_HUMAN	Plasminogen activator, urokinase	#	#	Homo sapiens	Cell structure and motility->Cell motility;Immunity and defense->Blood clotting;Protein metabolism and modification->Proteolysis;Signal transduction->Cell communication	Protease->Serine protease	PTHR19355: SF175
trm Q9NYD3 Q9NYD3_HUMAN	Prothymosin alpha	#		Homo sapiens	Cell proliferation and differentiation;Nucleoside,	Miscellaneous function	PTHR22745

					nucleotide and nucleic acid metabolism		
trm Q6PQ81	Dickkopf-related protein 3 (DKK-3)	#	#	Homo sapiens	Organismal development		
trm Q5U0B9 Q5U0B9_HUMAN	Stem cell growth factor (SCGF)	#		Homo sapiens	Signal transduction->Cell communication->Ligand-mediated signaling;Developmental processes->Mesoderm development->Hematopoiesis	Signaling molecule->Growth factor	PTHR22799:SF1
trm Q6NR85 Q6NR85_HUMAN	Superoxide dismutase	#	#	Homo sapiens	Immunity and defense	Oxidoreductase->Other oxidoreductase	PTHR10003:SF12
trm Q59E99 Q59E99_HUMAN	Thrombospondin 1	#		Homo sapiens	Immunity and defense->Blood clotting;Developmental processes->Other developmental process	Select regulatory molecule->Other enzyme regulator;Extracellular matrix->Other extracellular matrix;Signaling molecule->Other signaling molecule	PTHR10199:SF9
spt P30530 UFO_HUMAN	Tyrosine-protein kinase receptor UFO precursor (AXL oncogene)	#	#	Homo sapiens	Protein metabolism and modification->Protein modification->Protein phosphorylation;Signal transduction->Cell surface receptor mediated signal transduction->Receptor protein tyrosine kinase signaling pathway;Cell proliferation and differentiation;Oncogenesis;Immunity and defense	Kinase->Protein kinase->Tyrosine protein kinase receptor;Receptor->Protein kinase receptor->Tyrosine protein kinase receptor	PTHR23256:SF156
spt P62988 UBIQ_HUMAN	Ubiquitin-A 52 residue ribosomal protein fusion product		#	Homo sapiens	Protein metabolism and modification->Proteolysis	Nucleic acid binding->Ribosomal protein	PTHR10666:SF9
spt Q15904 VAS1_HUMAN	V-type proton ATPase subunit S1	#		Homo sapiens	Transport->Ion transport->Cation transport;Nucleoside, nucleotide and nucleic acid metabolism;Transport->Small molecule transport	Transporter->Cation transporter->Hydrogen transporter;Synthase and synthetase->Synthase->ATP synthase;Hydrolase	PTHR12471

spt P08670	Vimentin	#	#	Homo sapiens	Developmental processes->Ectoderm development;Cell structure and motility->Cell structure	Miscellaneous function->Structural protein;Cytoskeletal protein->Intermediate filament	PTHR23239:SF27
spt P16070 CD44_HUMAN	CD44 antigen		#	Homo sapiens	Biological process unclassified	Molecular function unclassified	PTHR10225
trm Q5U000	Cathepsin Z	#	#	Homo sapiens	Protein metabolism and modification->Proteolysis	Protease->Cysteine protease	PTHR12411:SF14
spt P24592	Insulin-like growth factor-binding protein 6 (IGFBP-6)		#	Homo sapiens	Cell proliferation and differentiation	Miscellaneous function	PTHR14186:SF6
trm Q3KQW3	Peptidylprolyl isomerase A (cyclophilin A)		#	Homo sapiens	Immunity and defense;Intracellular protein traffic->Nuclear transport;Protein metabolism and modification->Protein folding	Isomerase->Other isomerase	PTHR11071:SF63
spt P19022	Cadherin-2		#	Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Cell adhesion	Cell adhesion molecule->Cadherin	PTHR10596:SF98
trm Q8WVW5	Putative uncharacterized protein		#	Homo sapiens			
trm Q3HV3	Lysyl oxidase like 2 variant	#		Homo sapiens	Cell adhesion;Oncogenesis->Tumor suppressor	Oxidoreductase->Oxidase;Receptor->Other receptor	PTHR19331:SF10
spt P98160	Basement Membrane Specific Heparan Sulfate Core Protein	#		Homo sapiens	Signal transduction->Cell communication->Cell adhesion-mediated signaling;Signal transduction->Cell communication->Extracellular matrix protein-mediated signaling;Cell adhesion	Extracellular matrix	PTHR10574:SF25
spt P28799	Granulins (proepithelin)		#	Homo sapiens	Signal transduction->Cell communication->Ligand-mediated signaling	Signaling molecule->Cytokine	PTHR12274