

List of Glycoprotein Identified

Glycoproteins Identified in 5 Thyroid Cancer Cell-lines

** Results for Protein Atlas (<http://www.proteinatlas.org/index.php>)

Immunohistochemical results are listed as (-) no staining or negative, (+) weak staining, (++) moderate staining, (+++) strong staining; (?) uncertain Western blot results

A blank cell indicates that information/spectrum is unavailable or undetected

(*) in the column name "Glycosylation" denotes a glycoprotein

Swiss-Prot Accession Number	ARO-p65 Spectra Counts	ARO-p67 Spectra Counts	DRO-p54 Spectra Counts	DRO-p56 Spectra Counts	XTC-p13 Spectra Counts	XTC-p29 Spectra Counts	TPC-p13 Spectra Counts	TPC-p15 Spectra Counts	FTC-p16 Spectra Counts	FTC-p17 Spectra Counts	**Human Proteome IHC (Thyroid gland)	**Human Proteome IHC- Thyroid Cancer	Protein Name	Subcellular location	Glycosylation	#Trans-membrane regions	Cd Antigen Name
P11166	44	16					5		22		+/?	+/?	Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter	Cell membrane, Multi-pass membrane protein, Melanosome, Localizes primarily at the cell surface (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	12	
O15118					5	1							Niemann-Pick C1 protein	Late endosome membrane, Multi-pass membrane protein, Lysosome membrane, Multi-pass membrane protein	*	11	
Q15758	16	6	6		2		6	6	8				Neutral amino acid transporter B(0), ATB(0), Sodium dependent neutral amino acid transporter type 2, RD114/simian type D retrovirus receptor, Baboon M7 virus receptor, Solute carrier family 1 member 5	Membrane, Multi-pass membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	10	
Q8IWA5					10	10					-/?	+/?	Choline transporter-like protein 2, Solute carrier family 44 member 2	Membrane, Multi-pass membrane protein	*	10	
P48960	3	2			9				10		+	++	CD97 antigen, Leukocyte antigen CD97	Cell membrane, Multi-pass membrane protein, Secreted, Extracellular space	*	7	CD97
Q8IZP9					6	14					-/?	-/?	G-protein coupled receptor 64, Epididymis-specific protein 6, He6 receptor	Cell membrane, Multi-pass membrane protein	*	7	
Q8NFJ5					13	3					+++/?	++/?	Retinoic acid-induced protein 3, G-protein coupled receptor family C group 5 member A, Retinoic acid-induced gene 1 protein, RAIG-1, Orphan G-protein-coupling receptor PEIG-1	Cell membrane, Multi-pass membrane protein, Cytoplasmic vesicle membrane, Multi-pass membrane protein, Localized in the plasma membrane and perinuclear vesicles.	*	7	
Q8TCT9						29							Minor histocompatibility antigen H13, Signal peptide peptidase, Presenilin-like protein 3, hIMP1 protein	Endoplasmic reticulum membrane, Multi-pass membrane protein	*	7	
O43490	3	3									++/?	++/?	Prominin-1, Prominin-like protein 1, Antigen AC133	Apical cell membrane, Multi-pass membrane protein, Cell projection, Microvillus membrane, Multi-pass membrane protein	*	5	CD133
Q08722	12										-/?	+/?	Leukocyte surface antigen CD47, Integrin-associated protein, IAP, Antigenic surface determinant protein OA3, Protein MER6	Cell membrane, Multi-pass membrane protein	*	5	CD47
O60635	5												Tetraspanin-1, Tspan-1, Tetraspan NET-1, Tetraspanin TM4-C	Membrane, Multi-pass membrane protein	*	4	
O60637	6										+++/?	++/?	Tetraspanin-3, Tspan-3, Transmembrane 4 superfamily member 8, Tetraspanin TM4-A	Membrane, Multi-pass membrane protein	*	4	
O95858	5												Tetraspanin-15, Tspan-15, Transmembrane 4 superfamily member 15, Tetraspan NET-7	Membrane, Multi-pass membrane protein	*	4	
P08962	23	10	26		27	63			17		+	+	CD63 antigen, Melanoma-associated antigen ME491, Ocular melanoma-associated antigen, OMA81H, Granulophysin, Tetraspanin-30, Tspan-30, Lysosomal-associated membrane protein 3, Lamp-3	Cell membrane, Multi-pass membrane protein, Lysosome membrane, Multi-pass membrane protein, Late endosome membrane, Multi-pass membrane protein, Also found in Weibel-Palade bodies of endothelial cells.	*	4	CD63
P19075	66	40											Tetraspanin-8, Tspan-8, Transmembrane 4 superfamily member 3, Tumor-associated antigen CO-029	Membrane, Multi-pass membrane protein	*	4	
P21926	12	20			8	56	9		18		++	+++	CD9 antigen, p24, Leukocyte antigen MIC3, Motility-related protein, MRP-1, Tetraspanin-29, Tspan-29, 5H9 antigen, Cell growth-inhibiting gene 2 protein	Membrane, Multi-pass membrane protein	*	4	CD9
P27701	2										-/?	-/?	CD82 antigen, Inducible membrane protein R2, C33 antigen, IA4, Metastasis suppressor Kangai 1, Suppressor of tumorigenicity-6, Tetraspanin-27, Tspan-27	Membrane, Multi-pass membrane protein	*	4	CD82
P48509	4						21	17			+	++/+++	CD151 antigen, Platelet-endothelial tetraspanin antigen 3, PETA-3, GP27, Membrane glycoprotein SFA-1, Tetraspanin-24, Tspan-24	Membrane, Multi-pass membrane protein	*	4	CD151
Q04941									6				Proteolipid protein 2, Intestinal membrane A4 protein, Differentiation-dependent protein A4	Membrane, Multi-pass membrane protein	*	4	

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Q16563	4								++/?	++/?	Synaptophysin-like protein 1, Pantophysin	Cytoplasmic vesicle membrane, Multi-pass membrane protein, Melanosome, Cytoplasmic transport vesicles (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	4	
P04844			11	15	2		6		+++	+++	Dolichyl-diphosphooligosaccharide-protein glycosyltransferase subunit 2, Dolichyl-diphosphooligosaccharide-protein glycosyltransferase 63 kDa subunit, Ribophorin-2, Ribophorin II, RPN-II, RIBIIR	Endoplasmic reticulum membrane, Multi-pass membrane protein	*	3	
Q14108	8	4							+++/?	+++/?	Lysosome membrane protein 2, Lysosome membrane protein II, LIMP II, Scavenger receptor class B member 2, 85 kDa lysosomal membrane sialoglycoprotein, LGP85, CD36 antigen-like 2	Lysosome membrane, Multi-pass membrane protein	*	2	CD36
O14672	47	30				21	21	27	+/?	+/?	ADAM 10, A disintegrin and metalloproteinase domain 10, Mammalian disintegrin-metalloprotease, Kuzbanian protein homolog, CDw156	Cell membrane, Single-pass type I membrane protein, Intracytoplasmic membrane, Single-pass type I membrane protein, Is localized in the plasma membrane but is predominantly expressed in the Golgi apparatus and in released membrane vesicles derived likely from the Golgi.	*	1	CD156c
O14786							9		+/?	+/?	Neuropilin-1, Vascular endothelial cell growth factor 165 receptor	Cell membrane, Single-pass type I membrane protein, Secreted	*	1	CD304
O15031	21	36			6	9	8	14	+++/?	+++/?	Plexin-B2, MM1	Membrane, Single-pass type I membrane protein	*	1	
O43570	19	17			17	6	16		++/?	+/?	Carbonic anhydrase 12, Carbonic anhydrase XII, CA XII, Carbonate dehydratase XII, HOM-RCC-3.1.3 tumor antigen	Membrane, Single-pass type I membrane protein	*	1	
O75882				5		5			++	++	Attractin, Mahogany homolog, DPPT-L	Cell membrane, Single-pass type I membrane protein, Secreted, Secreted	*	1	
O75976	2	4		22	37						Carboxypeptidase D, Metalloprotease D, gp180	Membrane, Single-pass type I membrane protein	*	1	
P00533				3	7	6	4		++	++	Epidermal growth factor receptor, Receptor tyrosine-protein kinase ErbB-1	Cell membrane, Single-pass type I membrane protein, Secreted	*	1	
P01892		3				4					HLA class I histocompatibility antigen, A-2 alpha chain, MHC class I antigen A*2	Membrane, Single-pass type I membrane protein	*	1	
P02786		7							-	++	Transferrin receptor protein 1, TfR1, TfR, TR, Trfr, T9, p90	Cell membrane, Single-pass type II membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV., Secreted	*	1	CD71
P04233				11	31				+	++	HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, Ia antigen-associated invariant chain, ii, p33	Membrane, Single-pass type II membrane protein	*	1	CD74
P04439							12				HLA class I histocompatibility antigen, A-3 alpha chain, MHC class I antigen A*3	Membrane, Single-pass type I membrane protein	*	1	
P05026	13	14		6	12				+++	+++	Sodium/potassium-transporting ATPase subunit beta-1, Sodium/potassium-dependent ATPase subunit beta-1	Membrane, Single-pass type II membrane protein	*	1	
P05067	5	5					6		+/?	+/?	Amyloid beta A4 protein, Alzheimer disease amyloid protein, ABPP, APPI, APP, PreA4, Cerebral vascular amyloid peptide, CVAP, Protease nexin-II, PN-II	Membrane, Single-pass type I membrane protein, Membrane, Clathrin-coated pit, Cell surface protein that rapidly becomes internalized via clathrin coated pits. During maturation, the immature APP (N-glycosylated in the endoplasmic reticulum) moves to the Golgi complex where complete maturation occurs (O-glycosylated and sulfated). After alpha-secretase cleavage, soluble APP is released into the extracellular space and the C-terminal is internalized to endosomes and lysosomes. Some APP accumulates in secretory transport vesicles leaving the late Golgi compartment and returns to the cell surface. Gamma-CTF(59) peptide is located to both the cytoplasm and nuclei of neurons. It can be translocated to the nucleus through association with Fe65. Beta-APP42 associates with FRPL1 at the cell surface and the complex is then rapidly internalized. APP sorts to the basolateral surface in epithelial cells. During neuronal differentiation, the Thr-743 phosphorylated form is located mainly in growth cones, moderately in neurites and sparingly in the cell body. Casein kin	*	1	

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P05106					2	21	123	123			-	+	Integrin beta-3, Platelet membrane glycoprotein IIIa, GPIIb/IIIa	Membrane, Single-pass type I membrane protein	*	1	CD61
P05362	10	22	77	10	51	85	25	53			+/?	++/?	Intercellular adhesion molecule 1, ICAM-1, Major group rhinovirus receptor	Membrane, Single-pass type I membrane protein	*	1	CD54
P05556	66	50			24	103	306	452	113		+/?	+++/?	Integrin beta-1, Fibronectin receptor subunit beta, Integrin VLA-4 subunit beta	Cell membrane, Single-pass type I membrane protein, Melanosome, Isoform beta-1B does not localize to focal adhesions. Highly enriched in stage I melanosomes.	*	1	CD29
P06756	83	45	62	4	51	118	292	350	49		+++	+++	Integrin alpha-V, Vitronectin receptor subunit alpha	Membrane, Single-pass type I membrane protein	*	1	CD51
P08195	26	51	24	8	21	19	14	10					4F2 cell-surface antigen heavy chain, 4F2hc, Lymphocyte activation antigen 4F2 large subunit, 4F2 heavy chain antigen	Apical cell membrane, Single-pass type II membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Localized to the plasma membrane when associated with SLC7A5 or SLC7A8. Localized to the placental apical membrane. Located selectively at cell-cell adhesion sites (By similarity). Colocalized with SLC7A8/LAT2 at the basolateral membrane of kidney proximal tubules and small intestine epithelia. Expressed in both luminal and abluminal membranes of brain capillary endothelial cells (By similarity).	*	1	CD98
P08581						8	2				++	+++	Hepatocyte growth factor receptor, HGF receptor, Scatter factor receptor, SF receptor, HGF/SF receptor, Met proto-oncogene tyrosine kinase, c-Met	Membrane, Single-pass type I membrane protein	*	1	
P08648					10	21	28	20	58		-	+	Integrin alpha-5, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, CD49 antigen-like family member E	Membrane, Single-pass type I membrane protein	*	1	CD49e
P09603					1	10							Macrophage colony-stimulating factor 1, CSF-1, MCSF, M-CSF, Lanimostim	Cell membrane, Single-pass membrane protein, Secreted, Extracellular space	*	1	
P10586		2									+++/?	+++/?	Receptor-type tyrosine-protein phosphatase F, LAR protein, Leukocyte antigen related	Membrane, Single-pass type I membrane protein	*	1	
P11279	41	31	21	11	74	49	41	88	48	36	+++/?	+++/?	Lysosome-associated membrane glycoprotein 1, LAMP-1, CD107 antigen-like family member A	Cell membrane, Single-pass type I membrane protein, Endosome membrane, Single-pass type I membrane protein, Lysosome membrane, Single-pass type I membrane protein, This protein shuttles between lysosomes, endosomes, and the plasma membrane.	*	1	CD107a
P11717	12	37	4		3	7	8	41	15		+	+++	Cation-independent mannose-6-phosphate receptor, CI Man-6-P receptor, CI-MPR, M6PR, Insulin-like growth factor 2 receptor, Insulin-like growth factor II receptor, IGF-II receptor, M6P/IGF2 receptor, M6P/IGF2R, 300 kDa mannose 6-phosphate receptor, MPR 300	Lysosome membrane, Single-pass type I membrane protein	*	1	CD222
P12830	9	56				12					+++	+++	Epithelial cadherin, E-cadherin, Cadherin-1, Uvomorulin, CAM 120/80	Cell junction, Cell membrane, Single-pass type I membrane protein, Colocalizes with DLGAP5 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm.	*	1	CD324
P13473	54	43	31	11	58	20	12	44	20		+++/?	+++/?	Lysosome-associated membrane glycoprotein 2, LAMP-2, CD107 antigen-like family member B	Cell membrane, Single-pass type I membrane protein, Endosome membrane, Single-pass type I membrane protein, Lysosome membrane, Single-pass type I membrane protein, This protein shuttles between lysosomes, endosomes, and the plasma membrane.	*	1	CD107b
P13591					11	33	12	41	11		+++/?	+++/?	Neural cell adhesion molecule 1, NCAM-1, N-CAM-1	Cell membrane, Single-pass type I membrane protein, Cell membrane, Single-pass type I membrane protein, Cell membrane, Lipid-anchor, GPI-anchor, Cell membrane, Lipid-anchor, GPI-anchor, Secreted, Secreted	*	1	CD56

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P15151	5	7				11				++/?	+/?	Poliovirus receptor, Nectin-like protein 5, Nect-5	Cell membrane, Single-pass type I membrane protein, Cell membrane, Single-pass type I membrane protein, Secreted, Secreted	*	1	CD155	
P15529	20	23				8				-/?	+/?	Membrane cofactor protein, Trophoblast leukocyte common antigen, TLX	Acrosome inner membrane, Single-pass type I membrane protein, Inner acrosomal membrane of spermatozoa. Internalized upon binding of Measles virus, Herpesvirus 6 or Neisseria gonorrhoeae, which results in an increased susceptibility of infected cells to complement-mediated injury. In cancer cells or cells infected by Neisseria, shedding leads to a soluble peptide.	*	1	CD46	
P15941					18	20						Mucin-1, MUC-1, Polymorphic epithelial mucin, PEM, PEMT, Episialin, Tumor-associated mucin, Carcinoma-associated mucin, Tumor-associated epithelial membrane antigen, EMA, H23AG, Peanut-reactive urinary mucin, PUM, Breast carcinoma-associated antigen DF3	Apical cell membrane, Single-pass type I membrane protein, Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells. After endocytosis, internalized and recycled to the cell membrane. Located to microvilli and to the tips of long filopodial protrusions., Secreted, Secreted, Secreted, Cell membrane, Cytoplasm, Nucleus, On EGF and PDGFRB stimulation, transported to the nucleus through interaction with CTNNB1, a process which is stimulated by phosphorylation. On HRG stimulation, colocalizes with JUP/gamma-catenin at the nucleus.	*	1	CD227	
P16070	145	104	59		39	51	161	185	159	39	+++	+++	CD44 antigen, Phagocytic glycoprotein I, PGP-1, HUTCH-I, Extracellular matrix receptor-III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, Hermes antigen, Hyaluronate receptor, Heparan sulfate proteoglycan, Epican, CDw44	Membrane, Single-pass type I membrane protein	*	1	CD44
P16422	68	97									++/?	+++/?	Tumor-associated calcium signal transducer 1, Major gastrointestinal tumor-associated protein GA733-2, Epithelial cell surface antigen, Epithelial glycoprotein, EGP, Adenocarcinoma-associated antigen, KSA, KS 1/4 antigen, Cell surface glycoprotein Trop-1	Membrane, Single-pass type I membrane protein	*	1	CD326
P17301	61	37			14	17	13	17					Integrin alpha-2, Platelet membrane glycoprotein Ia, GPIa, Collagen receptor, VLA-2 alpha chain, CD49 antigen-like family member B	Membrane, Single-pass type I membrane protein	*	1	CD49b
P17813						5		19			-/?	+++/?	Endoglin	Membrane, Single-pass type I membrane protein	*	1	CD105
P18084	23	15		2		20	27	46	8		+	++	Integrin beta-5	Membrane, Single-pass type I membrane protein	*	1	
P18827								16	10		-/?	-/?	Syndecan-1, SYND1	Membrane, Single-pass type I membrane protein	*	1	CD138
P19022			2		16	41	16	17	13		++	+++	Cadherin-2, Neural cadherin, N-cadherin, CDw325	Cell membrane, Single-pass type I membrane protein	*	1	CD325
P19440	9				2	2							Gamma-glutamyltransferase 1, Gamma-glutamyltransferase 1, GGT 1	Membrane, Single-pass type II membrane protein	*	1	CD224
P20645							5						Cation-dependent mannose-6-phosphate receptor, CD Man-6-P receptor, CD-MPR, 46 kDa mannose 6-phosphate receptor, MPR 46	Lysosome membrane, Single-pass type I membrane protein	*	1	
P23229	10	6									+	+	Integrin alpha-6, VLA-6, CD49 antigen-like family member F	Membrane, Single-pass type I membrane protein	*	1	CD49f
P23470					2		7	6					Receptor-type tyrosine-protein phosphatase gamma, Protein-tyrosine phosphatase gamma, R-PTP-gamma	Membrane, Single-pass type I membrane protein	*	1	
P25942						5	12				-/?	-/?	Tumor necrosis factor receptor superfamily member 5, CD40L receptor, B-cell surface antigen CD40, Bp50, CDw40	Cell membrane, Single-pass type I membrane protein, Secreted	*	1	CD40
P26006	10				9	17	182	178	28				Integrin alpha-3, Galactoprotein B3, GABP3, VLA-3 alpha chain, FRP-2, CD49 antigen-like family member C	Membrane, Single-pass type I membrane protein	*	1	CD49c
P27487	100	106			26	86	106	235					Dipeptidyl peptidase 4, Dipeptidyl peptidase IV, DPP IV, T-cell activation antigen CD26, TP103, Adenosine deaminase complexing protein 2, ADABP	Secreted, Cell membrane, Single-pass type II membrane protein	*	1	CD26
P28827						2	14						Receptor-type tyrosine-protein phosphatase mu, Protein-tyrosine phosphatase mu, R-PTP-mu	Membrane, Single-pass type I membrane protein	*	1	
P29323		6				4	2				+++/?	++/?	Ephrin type-B receptor 2, Tyrosine-protein kinase receptor EPH-3, DRT, Receptor protein-tyrosine kinase HEK5, ERK, Tyrosine-protein kinase TYRO5, Renal carcinoma antigen NY-REN-47	Membrane, Single-pass type I membrane protein	*	1	
P30447					34	40	6	10					HLA class I histocompatibility antigen, A-23 alpha chain, MHC class I antigen A*23, A-9	Membrane, Single-pass type I membrane protein	*	1	
P30464			8										HLA class I histocompatibility antigen, B-15 alpha chain, MHC class I antigen B*15	Membrane, Single-pass type I membrane protein	*	1	

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P30481					31	43						HLA class I histocompatibility antigen, B-44 alpha chain, MHC class I antigen B*44, Bw-44	Membrane, Single-pass type I membrane protein	*	1			
P30508							31	5				HLA class I histocompatibility antigen, Cw-12 alpha chain, MHC class I antigen Cw*12	Membrane, Single-pass type I membrane protein	*	1			
P30530								3				Tyrosine-protein kinase receptor UFO, AXL oncogene	Membrane, Single-pass type I membrane protein	*	1			
P30685								6	3			HLA class I histocompatibility antigen, B-35 alpha chain, MHC class I antigen B*35	Membrane, Single-pass type I membrane protein	*	1			
P31431								9			++	++	Syndecan-4, SYND4, Amphiglycan, Ryudocan core protein	Membrane, Single-pass type I membrane protein	*	1		
P32970					30	79			34	5			CD70 antigen, CD27 ligand, CD27-L, Tumor necrosis factor ligand superfamily member 7	Membrane, Single-pass type II membrane protein	*	1	CD70	
P35613	116	77	28		31	89	77	124	60		-	+++	Basigin, Leukocyte activation antigen M6, Collagenase stimulatory factor, Extracellular matrix metalloproteinase inducer, EMMPRIN, 5F7, Tumor cell-derived collagenase stimulatory factor, TCSF, OK blood group antigen	Cell membrane, Single-pass type I membrane protein, Melanosome, Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	1	CD147	
P42892							4	18	59		+++/?	+++/?	Endothelin-converting enzyme 1, ECE-1	Membrane, Single-pass type II membrane protein	*	1		
P43121	9		88	25	2	52	65	72	179		-/?	-/?	Cell surface glycoprotein MUC18, Melanoma-associated antigen MUC18, Melanoma cell adhesion molecule, Melanoma-associated antigen A32, S-endo 1 endothelial-associated antigen, Cell surface glycoprotein P1H12	Membrane, Single-pass type I membrane protein	*	1	CD146	
P43307			14							6		+	++	Translocon-associated protein subunit alpha, TRAP, alpha, Signal sequence receptor subunit alpha, SSR alpha	Endoplasmic reticulum membrane, Single-pass type I membrane protein	*	1	
P49755										13				Transmembrane emp24 domain-containing protein 10, 21 kDa transmembrane-trafficking protein, Transmembrane protein Tmp21, Tmp-21-I, p24delta, S31III125, S31I125	Golgi apparatus membrane, Single-pass type I membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	1	
P50895	22	85			4	13								Lutheran blood group glycoprotein, B-CAM cell surface glycoprotein, Auberger B antigen, F8/G253 antigen	Membrane, Single-pass type I membrane protein	*	1	CD239
P52799	2	9										++	++	Ephrin-B2, EPH-related receptor tyrosine kinase ligand 5, LERK-5, HTK ligand, HTK-L	Membrane, Single-pass type I membrane protein	*	1	
P54289							3	1				-/?	-/?	Voltage-dependent calcium channel subunit alpha-2/delta-1, Voltage-gated calcium channel subunit alpha-2/delta-1	Membrane, Single-pass type I membrane protein	*	1	
P54709			10							7				Sodium/potassium-transporting ATPase subunit beta-3, Sodium/potassium-dependent ATPase subunit beta-3, ATPB-3	Membrane, Single-pass type II membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	1	CD298
P54753	2	14										+++/?	+++/?	Ephrin type-B receptor 3, Tyrosine-protein kinase receptor HEK-2, Tyrosine-protein kinase TYRO6	Membrane, Single-pass type I membrane protein	*	1	
P55285						5						+/?	++/?	Cadherin-6, Kidney cadherin, K-cadherin	Cell membrane, Single-pass type I membrane protein	*	1	
P56199	4	8								3				Integrin alpha-1, Laminin and collagen receptor, VLA-1, CD49 antigen-like family member A	Membrane, Single-pass type I membrane protein	*	1	CD49a
P78310							5	4				-	++	Coxsackievirus and adenovirus receptor, Coxsackievirus B-adenovirus receptor, HCVADR, hCAR, CVB3-binding protein	Cell membrane, Single-pass type I membrane protein, Cell junction, Tight junction, Cell junction, Adherens junction, Basolateral cell membrane, Single-pass type I membrane protein, In epithelial cells localizes to the apical junction complex composed of tight and adherens junctions. In airway epithelial cells localized to basolateral membrane but not to apical surface., Cell membrane, Single-pass type I membrane protein, Cell junction, Tight junction, Cell junction, Adherens junction, Basolateral cell membrane, Single-pass membrane protein, In epithelial cells localizes to the apical junction complex composed of tight and adherens junctions. In airway epithelial cells localized to basolateral membrane but not to apical surface., Secreted, Secreted, Secreted	*	1	
P78324							15	20				-/?	-/?	Tyrosine-protein phosphatase non-receptor type substrate 1, SHP substrate 1, SHPS-1, Inhibitory receptor SHPS-1, Signal regulatory protein alpha-1, Sirp-alpha-1, Sirp-alpha-2, Sirp-alpha-3, MYD-1 antigen, Brain Ig-like molecule with tyrosine-based activation motifs, Bit, Macrophage fusion receptor, p84, CD172 antigen-like family member A	Membrane, Single-pass type I membrane protein	*	1	CD172a

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P98172	4	20								+/?	++/?	Ephrin-B1, EPH-related receptor tyrosine kinase ligand 2, LERK-2, ELK ligand, ELK-L	Membrane, Single-pass type I membrane protein	*	1		
Q02487		7								+	++/+	Desmocollin-2, Desmosomal glycoprotein II and III, Desmocollin-3	Cell membrane, Single-pass type I membrane protein, Cell junction, Desmosome	*	1		
Q04721	1	4										Neurogenic locus notch homolog protein 2, Notch 2, hN2	Cell membrane, Single-pass type I membrane protein, Nucleus, Following proteolytical processing NICD is translocated to the nucleus.	*	1		
Q07954			7		3	18		6	4	-/?	-/?	Prolow-density lipoprotein receptor-related protein 1, LRP, Alpha-2-macroglobulin receptor, A2MR, Apolipoprotein E receptor, APOER	Cell membrane, Single-pass type I membrane protein, Membrane, Coated pit, Cell membrane, Peripheral membrane protein, Membrane, Coated pit, Cytoplasm, Nucleus, After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus.	*	1	CD91	
Q10589					3	11						Bone marrow stromal antigen 2, BST-2, HM1.24 antigen	Golgi apparatus, trans-Golgi network, Cell membrane, Single-pass type II membrane protein, Cell membrane, Lipid-anchor, GPI-anchor	*	1	CD317	
Q12907				4						++/?	++/?	Vesicular integral-membrane protein VIP36, Lectin mannose-binding 2, Glycoprotein GP36b	Endoplasmic reticulum-Golgi intermediate compartment membrane, Single-pass type I membrane protein, Golgi apparatus membrane, Single-pass membrane protein, Endoplasmic reticulum membrane, Single-pass type I membrane protein	*	1		
Q13308		10				8	6			+/?	++/?	Tyrosine-protein kinase-like 7, Colon carcinoma kinase 4, CCK-4	Membrane, Single-pass type I membrane protein	*	1		
Q13641					7	9	7	32	14	++/?	++/?	Trophoblast glycoprotein, 5T4 oncofetal trophoblast glycoprotein, 5T4 oncotrophoblast glycoprotein, 5T4 oncofetal antigen, M6P1	Membrane, Single-pass type I membrane protein	*	1		
Q13740	12	6			26	92	206	539	9	+/?	+++/?	CD166 antigen, Activated leukocyte cell adhesion molecule	Membrane, Single-pass type I membrane protein	*	1	CD166	
Q14118		3							8	+/?	+/?	Dystroglycan, Dystrophin-associated glycoprotein 1	Secreted, Extracellular space, Cell membrane, Single-pass type I membrane protein, Cytoplasm, Cytoskeleton	*	1		
Q14126		13			11	35				+++/?	++/?	Desmoglein-2, HDGC	Cell membrane, Single-pass type I membrane protein, Cell junction, Desmosome	*	1		
Q14956			19									Transmembrane glycoprotein NMB, Transmembrane glycoprotein HGFIN	Membrane, Single-pass type I membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	1		
Q15223	1	5								++/??	+/??	Poliovirus receptor-related protein 1, Herpes virus entry mediator C, HveC, Nectin-1, Herpesvirus Ig-like receptor, HlgR	Cell membrane, Single-pass type I membrane protein, Cell membrane, Single-pass type I membrane protein, Secreted	*	1	CD111	
Q15262		5			2	14						Receptor-type tyrosine-protein phosphatase kappa, Protein-tyrosine phosphatase kappa, R-PTP-kappa	Cell junction, Adherens junction, Cell membrane, Single-pass type I membrane protein	*	1		
Q16651		5				7						Prostasin, Serine protease 8	Cell membrane, Single-pass membrane protein, Secreted, Extracellular space, Found in the seminal fluid. Secreted after cleavage of its C-terminus., Secreted, Extracellular space, Found in the seminal fluid. Secreted after cleavage of its C-terminus.	*	1		
Q16790	6	32								+	-	Carbonic anhydrase 9, Carbonic anhydrase IX, CA-IX, CAIX, Carbonate dehydratase IX, Membrane antigen MN, P54/58N, Renal cell carcinoma-associated antigen G250, RCC-associated antigen G250, pMW1	Nucleus, Nucleus, Nucleolus, Cell membrane, Single-pass type I membrane protein, Cell projection, Microvillus membrane, Single-pass type I membrane protein, Found on the surface microvilli and in the nucleus, particularly in nucleolus.	*	1		
Q5ZPR3	10	5	4		9	26	16	40	48	++/?	++/?	CD276 antigen, Costimulatory molecule, B7 homolog 3, B7-H3, 4lg-B7-H3	Membrane, Single-pass type I membrane protein	*	1	CD276	
Q6EMK4					19	89	2	14	25	5	-/?	++/?	Vasorin, Protein slit-like 2	Membrane, Single-pass type I membrane protein, Secreted	*	1	

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Q6UVK1	5	28	294	531			294	143	++/?	+++/?	Chondroitin sulfate proteoglycan 4, Chondroitin sulfate proteoglycan NG2, Melanoma chondroitin sulfate proteoglycan, Melanoma-associated chondroitin sulfate proteoglycan	Apical cell membrane, Single-pass type I membrane protein, Cell projection, Lamellipodium membrane, Single-pass type I membrane protein, Localized at the apical plasma membrane it relocalizes to the lamellipodia of astrocytoma upon phosphorylation by PRKCA. Localizes to the retraction fibers. Localizes to the plasma membrane of oligodendrocytes (By similarity).	*	1	
Q86UP2									+++	+++	Kinectin, Kinesin receptor, CG-1 antigen	Endoplasmic reticulum membrane, Single-pass type II membrane protein, Vesicle membrane protein anchored to the endoplasmic reticulum.	*	1	
Q8NB4	4	6							+++	+++	Golgi membrane protein 1, Golgi phosphoprotein 2, Golgi membrane protein GP73	Golgi apparatus, cis-Golgi network membrane, Single-pass type II membrane protein, Early Golgi. Cycles via the cell surface and endosomes upon luminal pH disruption.	*	1	
Q8TEM1		2									Nuclear pore membrane glycoprotein 210, POM210, Nuclear pore protein gp210	Nucleus, Nuclear pore complex, Nucleus membrane, Single-pass type I membrane protein, Endoplasmic reticulum membrane, Single-pass type I membrane protein	*	1	
Q8WUT4						20	43		+	++	Leucine-rich repeat-containing protein C20orf75	Membrane, Single-pass type I membrane protein	*	1	
Q92542	2	2									Nicastrin	Membrane, Single-pass type I membrane protein, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	1	
Q92692	5	22			10		16		++	++	Poliovirus receptor-related protein 2, Herpes virus entry mediator B, HveB, Nectin-2	Cell membrane, Single-pass type I membrane protein	*	1	CD112
Q92823					7						Neuronal cell adhesion molecule, Nr-CAM, NgCAM-related cell adhesion molecule, Ng-CAM-related, hBravo	Cell membrane, Single-pass type I membrane protein	*	1	
Q92859							3		++	++	Neogenin	Cell membrane, Single-pass type I membrane protein	*	1	
Q92896	7	2		7	12		21	7	++	+++	Golgi apparatus protein 1, Golgi sialoglycoprotein MG-160, E-selectin ligand 1, ESL-1, Cysteine-rich fibroblast growth factor receptor, CFR-1	Golgi apparatus membrane, Single-pass type I membrane protein	*	1	
Q969P0				15					-	+	Immunoglobulin superfamily member 8, CD81 partner 3, Glu-Trp-Ile EWI motif-containing protein 2, EWI-2, Keratinocytes-associated transmembrane protein 4, KCT-4, LIR-D1	Membrane, Single-pass membrane protein	*	1	CD316
Q96D42						18	31		++/?	+/?	Hepatitis A virus cellular receptor 1, HAVcr-1, T-cell immunoglobulin and mucin domain-containing protein 1, TIMD-1, T-cell membrane protein 1, TIM-1, TIM	Membrane, Single-pass type I membrane protein	*	1	
Q96PD2					3	9	13	6			Discooidin, CUB and LCCL domain-containing protein 2, Endothelial and smooth muscle cell-derived neuropilin-like protein, CUB, LCCL and coagulation factor V/VIII-homology domains protein 1	Membrane, Single-pass type I membrane protein	*	1	
Q99523		3							++/?	+++/?	Sortilin, Neurtensin receptor 3, NTR3, NT3, Glycoprotein 95, Gp95, 100 kDa NT receptor	Membrane, Single-pass type I membrane protein, Endoplasmic reticulum membrane, Single-pass type I membrane protein, Endosome membrane, Single-pass type I membrane protein, Golgi apparatus, Golgi stack membrane, Single-pass type I membrane protein, Lysosome membrane, Single-pass type I membrane protein, Nucleus membrane, Single-pass type I membrane protein, Cell membrane, Single-pass type I membrane protein, Lysosome membrane, Single-pass type I membrane protein, Localized to membranes of the endoplasmic reticulum, endosomes, Golgi stack, lysosomes and nucleus. A small fraction of the protein is also localized to the plasma membrane. May also be found in SLC2A4/GLUT4 storage vesicles (GSVs) in adipocytes. Localization to the plasma membrane in adipocytes may be enhanced by insulin.	*	1	
Q96VK6							10		+++	+++	Transmembrane emp24 domain-containing protein 9, Glycoprotein 25L2	Endoplasmic reticulum membrane, Single-pass type I membrane protein	*	1	

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Q9H5V8	4	4				3					+/?	+/?	CUB domain-containing protein 1, Transmembrane and associated with src kinases, Membrane glycoprotein gp140, Subtractive immunization M plus HEP3-associated 135 kDa protein, SIMA135	Cell membrane, Single-pass membrane protein, Shedding may also lead to a soluble peptide, Secreted	*	1	CD318
Q9HDC9	5	10		7		2					+++	+++	Adipocyte plasma membrane-associated protein, BSCv protein	Membrane, Single-pass type II membrane protein	*	1	
Q9NPH3			8										Interleukin-1 receptor accessory protein, IL-1 receptor accessory protein, IL-1RAcP	Cell membrane, Single-pass type I membrane protein, Secreted, Secreted, Secreted	*	1	
Q9NPR2		3									++/?	++/?	Semaphorin-4B	Membrane, Single-pass type I membrane protein	*	1	
Q9P2B2	9	10	15	4		13	5		6		+/?	++/?	Prostaglandin F2 receptor negative regulator, Prostaglandin F2-alpha receptor regulatory protein, Prostaglandin F2-alpha receptor-associated protein, CD9 partner 1, CD9P-1	Endoplasmic reticulum membrane, Single-pass type I membrane protein, Golgi apparatus, trans-Golgi network membrane, Single-pass type I membrane protein	*	1	CD315
Q9UBG0				27	31	74	11	72	43				Macrophage mannose receptor 2, Urokinase receptor-associated protein, Endocytic receptor 180	Membrane, Single-pass type I membrane protein	*	1	CD280
Q9UMF0					2	15					+/?	+/?	Intercellular adhesion molecule 5, ICAM-5, Telencephalin	Membrane, Single-pass type I membrane protein	*	1	
Q9UNN8							5	4					Endothelial protein C receptor, Endothelial cell protein C receptor, Activated protein C receptor, APC receptor	Membrane, Single-pass type I membrane protein	*	1	CD201
Q9Y3B3				11			3						Transmembrane emp24 domain-containing protein 7	Endoplasmic reticulum membrane, Single-pass type I membrane protein	*	1	
Q9Y5Y6	37	53											Suppressor of tumorigenicity protein 14, Serine protease 14, Matriptase, Membrane-type serine protease 1, MT-SP1, Prostamin, Serine protease TADG-15, Tumor-associated differentially-expressed gene 15 protein	Membrane, Single-pass type II membrane protein	*	1	
Q9Y624	2	3					12	9			+++	+++	Junctional adhesion molecule A, JAM-A, Junctional adhesion molecule 1, JAM-1, Platelet adhesion molecule 1, PAM-1, Platelet F11 receptor	Cell junction, Tight junction, Cell membrane, Single-pass type I membrane protein, Localized at tight junctions of both epithelial and endothelial cells.	*	1	CD321
O00115	8	16	42	27	42	64	33	44	13	12			Deoxyribonuclease-2-alpha, Deoxyribonuclease II alpha, DNase II alpha, Acid DNase, Lysosomal DNase II, R31240_2	Lysosome	*	0	
O00462		28					13	25					Beta-mannosidase, Lysosomal beta A mannosidase, Mannanase, Mannase	Lysosome	*	0	
O00468	169	167				104	7	61	2				Aggrin	Secreted, Extracellular space, Extracellular matrix, Synaptic basal lamina at the neuromuscular junction (By similarity).	*	0	
O00469						14	3						Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2, Lysyl hydroxylase 2, LH2	Rough endoplasmic reticulum membrane, Peripheral membrane protein	*	0	
O00584	20	37		4		4	108	208					Ribonuclease T2, Ribonuclease 6	Secreted	*	0	
O00754	3	5	10	20	11	66	85	36		13			Lysosomal alpha-mannosidase, Laman, Lysosomal acid alpha-mannosidase, Mannosidase alpha class 2B member 1, Mannosidase, alpha B	Lysosome	*	0	
O14773	92	182	88	57	54	122	72	170	13	22			Tripeptidyl-peptidase 1, TPP-1, Tripeptidyl-peptidase I, TPP-I, Tripeptidyl aminopeptidase, Lysosomal pepstatin-insensitive protease, LPIC, Cell growth-inhibiting gene 1 protein	Lysosome, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
O15230	2	5				4		7					Laminin subunit alpha-5	Secreted, Extracellular space, Extracellular matrix, Basement membrane, Major component.	*	0	
O15460				4									Prolyl 4-hydroxylase subunit alpha-2, 4-PH alpha-2, Procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-2	Endoplasmic reticulum lumen	*	0	
O43278	10	23									++	++/+++	Kunitz-type protease inhibitor 1, Hepatocyte growth factor activator inhibitor type 1, HAI-1	Secreted	*	0	
O43852			25	311	136	39		740	116		+++/?	++/?	Calumenin, Crocalbin, IEF SSP 9302	Endoplasmic reticulum lumen, Secreted, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
O60568			39	88									Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3, Lysyl hydroxylase 3, LH3	Rough endoplasmic reticulum membrane, Peripheral membrane protein	*	0	
O75503	4	5					8	10					Ceroid-lipofuscinosis neuronal protein 5, Protein CLN5	Lysosome	*	0	
O75629						32	11	32					Protein CREG1, Cellular repressor of E1A-stimulated genes 1	Secreted	*	0	
O94907		7									++/?	++/?	Dickkopf-related protein 1, Dickkopf-1, Dkk-1, hDkk-1, SK	Secreted	*	0	
O95302						5					++	+++	FK506-binding protein 9, Peptidyl-prolyl cis-trans isomerase, PPlase, Rotamase	Endoplasmic reticulum	*	0	
P00749						12		15			+/?	+/?	Urokinase-type plasminogen activator, U-plasminogen activator, uPA	Secreted	*	0	

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P00750			11								++	+++	Tissue-type plasminogen activator, t-plasminogen activator, t-PA, tPA	Secreted, Extracellular space	*	0	
P01009	101	147									-	+/-	Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase	Secreted	*	0	
P01011			3804	1960			4	11	99	158	++	++	Alpha-1-antichymotrypsin, ACT, Cell growth-inhibiting gene 24/25 protein	Secreted	*	0	
P01019	8	11					18				+	+/+++	Angiotensinogen, Serpin A8	Secreted	*	0	
P01023	3	11	30	27							+	++	Alpha-2-macroglobulin, Alpha-2-M, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5	Secreted	*	0	
P01024								5			-/?	-/?	Complement C3, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1	Secreted	*	0	
P01033	9					25	5	11					Metalloproteinase inhibitor 1, Tissue inhibitor of metalloproteinases, TIMP-1, Erythroid-potentiating activity, EPA, Fibroblast collagenase inhibitor, Collagenase inhibitor	Secreted	*	0	
P01137	2	6					5				-/?	+/?	Transforming growth factor beta-1, TGF-beta-1	Secreted	*	0	
P02462			24				34	12			+	++	Collagen alpha-1(IV) chain, Arresten	Secreted, Extracellular space, Extracellular matrix, Basement membrane	*	0	
P02649	4	7									++	++	Apolipoprotein E, Apo-E	Secreted	*	0	
P02750	1	2									+	++	Leucine-rich alpha-2-glycoprotein, LRG	Secreted	*	0	
P02751						31	125	408			+	+++	Fibronectin, FN, Cold-insoluble globulin, CIG	Secreted, Extracellular space, Extracellular matrix	*	0	
P02765		3									-	-	Alpha-2-HS-glycoprotein, Ba-alpha-2-glycoprotein, Alpha-2-Z-globulin, Fetuin-A	Secreted	*	0	
P02768	10	9	12	8	28	8	8	85	11		+++	++	Serum albumin	Secreted	*	0	
P02771	3										-/?	+/?	Alpha-fetoprotein, Alpha-1-fetoprotein, Alpha-fetoglobulin	Secreted	*	0	
P02774		11									-	++	Vitamin D-binding protein, DBP, VDB, Group-specific component, Gc-globulin	Secreted	*	0	
P02787			273	56							++	++	Serotransferrin, Transferrin, Siderophilin, Beta-1-metal-binding globulin	Secreted	*	0	
P04004	11	8	8	10		9			9		-	-	Vitronectin, Serum-spreading factor, S-protein, V75	Secreted, Extracellular space	*	0	
P04062	57	81	32	45	63	135	32	86	7	23	+++	+++	Glucosylceramidase, Beta-glucocerebrosidase, Acid beta-glucosidase, D-glucosyl-N-acylsphingosine glucosylase, Alglucerase, Imiglucerase	Lysosome membrane, Peripheral membrane protein, Interaction with saposin-C promotes membrane association.	*	0	
P04216						97	268		147	90	-/?	-/?	Thy-1 membrane glycoprotein, Thy-1 antigen, CDw90	Cell membrane, Lipid-anchor, GPI-anchor	*	0	CD90
P05090			5										Apolipoprotein D, Apo-D, ApoD	Secreted	*	0	
P05783					46	1					+++	+++	Keratin, type I cytoskeletal 18, Cytokeratin-18, CK-18, Keratin-18, K18, Cell proliferation-inducing gene 46 protein	Cytoplasm, Perinuclear region	*	0	
P05997							10	9					Collagen alpha-2(V) chain	Secreted, Extracellular space, Extracellular matrix	*	0	
P06276				10	54						+/?	+/?	Cholinesterase, Acetylcholine acylhydrolase, Choline esterase II, Butyrylcholine esterase, Pseudocholinesterase		*	0	
P06280	3	7		4			19				++	+++	Alpha-galactosidase A, Alpha-D-galactoside galactohydrolase, Alpha-D-galactosidase A, Melibiase	Lysosome	*	0	
P06865	108	224	91	109	104	63	141	181	74	76			Beta-hexosaminidase subunit alpha, N-acetyl-beta-glucosaminidase subunit alpha, Beta-N-acetylhexosaminidase subunit alpha, Hexosaminidase subunit A	Lysosome	*	0	
P07093			9	10									Glia-derived nexin, GDN, Protease nexin I, PN-1, Protease inhibitor 7	Secreted, Extracellular space	*	0	
P07225		11				6					++	++	Vitamin K-dependent protein S	Secreted	*	0	
P07339	129	270	266	202	424	925	622	1452	407	344	++/?	+++/?	Cathepsin D	Lysosome, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
P07602	282	411	746	675	499	774	278	718	517	361	+++	+++	Proactivator polypeptide	Lysosome	*	0	
P07686	101	154	89	121	174	204	143	205	91	90			Beta-hexosaminidase subunit beta, N-acetyl-beta-glucosaminidase subunit beta, Beta-N-acetylhexosaminidase subunit beta, Hexosaminidase subunit B, Cervical cancer proto-oncogene 7 protein, HCC-7	Lysosome	*	0	
P07711			93	27	20	135	15	55	13		-	+/?	Cathepsin L1, Major excreted protein, MEP	Lysosome	*	0	
P07858	48	53	316	147	22	132	176	424	100	42	+++/?	+++/?	Cathepsin B, Cathepsin B1, APP secretase, APPS	Lysosome, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
P07942	12	52	151	104		32	45	55	147	65	+++	++	Laminin subunit beta-1, Laminin B1 chain	Secreted, Extracellular space, Extracellular matrix, Basement membrane, Major component.	*	0	
P07996						36	23						Thrombospondin-1		*	0	
P08123								4					Collagen alpha-2(I) chain, Alpha-2 type I collagen	Secreted, Extracellular space, Extracellular matrix	*	0	
P08174	4	2	48	14	3	23			16	2	+	+++	Complement decay-accelerating factor	Membrane, Single-pass type I membrane protein, Cell membrane, Lipid-anchor, GPI-anchor	*	0	CD55

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P08236	36	35	35		4		15	16					Beta-glucuronidase, Beta-G1 Extracellular superoxide dismutase [Cu-Zn], EC-SOD	Lysosome Secreted, Extracellular space, 99% of EC-SOD is anchored to heparan sulfate proteoglycans in the tissue interstitium, and 1% is located in the vasculature in equilibrium between the plasma and the endothelium.	*	0			
P08294			54	30									+	++		*	0		
P08571					43	84							+	+	Monocyte differentiation antigen CD14, Myeloid cell-specific leucine-rich glycoprotein	Cell membrane, Lipid-anchor, GPI-anchor	*	0	CD14
P08572			49	15			10	20	8	6	-/?	-/?			Collagen alpha-2(IV) chain	Secreted, Extracellular space, Extracellular matrix, Basement membrane	*	0	
P08582			11	12	27	74							-	++	Melanotransferrin, Melanoma-associated antigen p97	Cell membrane, Lipid-anchor, GPI-anchor	*	0	CD228
P09486			25	87	35	59							-	+	SPARC, Secreted protein acidic and rich in cysteine, Osteonectin, ON, Basement-membrane protein 40, BM-40	Secreted, Extracellular space, Extracellular matrix, Basement membrane, In or around the basement membrane.	*	0	
P09668	43	94		8	13	34							-	+++	Cathepsin H	Lysosome	*	0	
POCOL5						26							-/?	+/?	Complement C4-B, Basic complement C4, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3	Secreted	*	0	
P10253	247	331	152	199	130	233	195	286	15	4					Lysosomal alpha-glucosidase, Acid maltase, Aglucosidase alfa	Lysosome	*	0	
P10619	59	96	62	37	124	202	124	162	56	57					Lysosomal protective protein, Cathepsin A, Carboxypeptidase C, Protective protein for beta-galactosidase	Lysosome	*	0	
P10646	4	4											++/?	++/+++/?	Tissue factor pathway inhibitor, TFPI, Lipoprotein-associated coagulation inhibitor, LACI, Extrinsic pathway inhibitor, EPI	Secreted	*	0	
P10909		4			12	14							-	+	Clusterin, Complement-associated protein SP-40,40, Complement cytolysis inhibitor, CLI, NA1/NA2, Apolipoprotein J, Apo-J, Testosterone-repressed prostate message 2, TRPM-2, Ku70-binding protein 1	Secreted	*	0	
P10915			153	20											Hyaluronan and proteoglycan link protein 1, Proteoglycan link protein, Cartilage link protein, LP	Secreted, Extracellular space, Extracellular matrix	*	0	
P11047			95	81		51	59	37	40	18			-	+	Laminin subunit gamma-1, Laminin B2 chain	Secreted, Extracellular space, Extracellular matrix, Basement membrane	*	0	
P11117	19	22	6		10	17	10	35		13					Lysosomal acid phosphatase, LAP	Lysosome	*	0	
P12109			67	24			64	6	34	246	76		+/?	-/?	Collagen alpha-1(VI) chain	Secreted, Extracellular space, Extracellular matrix	*	0	
P12110								3	6				++	++	Collagen alpha-2(VI) chain	Secreted, Extracellular space, Extracellular matrix, Membrane, Peripheral membrane protein, Recruited on membranes by CSPG4.	*	0	
P13284	19	27	11		30	60	15			10	10				Gamma-interferon-inducible lysosomal thiol reductase, Gamma-interferon-inducible protein IP-30	Lysosome	*	0	
P13611			24	19		23	72	147					++	++	Versican core protein, Large fibroblast proteoglycan, Chondroitin sulfate proteoglycan core protein 2, PG-M, Glial hyaluronate-binding protein, GHAP	Secreted, Extracellular space, Extracellular matrix	*	0	
P13674									13				+++	+++	Prolyl 4-hydroxylase subunit alpha-1, 4-PH alpha-1, Procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-1	Endoplasmic reticulum lumen	*	0	
P13987	134	165	277	17	132	353	106	253	46	26			-	++	CD59 glycoprotein, Membrane attack complex inhibition factor, MACIF, MAC-inhibitory protein, MAC-IP, Protectin, MEM43 antigen, Membrane inhibitor of reactive lysis, MIRL, 20 kDa homologous restriction factor, HRF-20, HRF20, 1F5 antigen	Cell membrane, Lipid-anchor, GPI-anchor, Secreted, Soluble form found in a number of tissues.	*	0	CD59
P14314	104	130	374	53	29	376	208	175	138	23			+++/?	+++/?	Glucosidase 2 subunit beta, Glucosidase II subunit beta, Protein kinase C substrate, 60.1 kDa protein, heavy chain, PKCSH, 80K-H protein	Endoplasmic reticulum	*	0	
P14384						14		6					-	-	Carboxypeptidase M, CPM	Cell membrane, Lipid-anchor, GPI-anchor	*	0	
P14625	10	23	250	120	34	18			127	14			+++	+++	Endoplasmic reticulum, Heat shock protein 90 kDa beta member 1, 94 kDa glucose-regulated protein, GRP94, gp96 homolog, Tumor rejection antigen 1	Endoplasmic reticulum lumen, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
P15289	7	17	32	34	56	33	92	109	40	23			+++	+++	Arylsulfatase A, ASA, Cerebroside-sulfatase	Lysosome	*	0	
P15586	40	60	56	66	195	182	134	247	57	108			++	++	N-acetylglucosamine-6-sulfatase, G6S, Glucosamine-6-sulfatase	Lysosome	*	0	
P15848					7	7	9	28							Arylsulfatase B, ASB, N-acetylgalactosamine-4-sulfatase, G4S	Lysosome	*	0	
P16112			34	20											Aggrecan core protein, Cartilage-specific proteoglycan core protein, CSPCP, Chondroitin sulfate proteoglycan core protein 1	Secreted, Extracellular space, Extracellular matrix	*	0	

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P16278	53	98	22	57	69	107	86	67	25	53	+/?	++/?	Beta-galactosidase, Acid beta-galactosidase, Lactase, Elastin receptor 1	Lysosome, Cytoplasm, Perinuclear region, Localized to the perinuclear area of the cytoplasm but not to lysosomes.	*	0	
P17050	3	17	37	45	43	47	113	96		11	++	++	Alpha-N-acetylgalactosaminidase, Alpha-galactosidase B	Lysosome	*	0	
P17405								9			++/?	+++/?	Sphingomyelin phosphodiesterase, Acid sphingomyelinase, sSMase	Lysosome	*	0	
P17900	3	7		21	29	40		43	21	11	++	++	Ganglioside GM2 activator, GM2-AP, Cerebroside sulfate activator protein, Shingolipid activator protein 3, SAP-3	Lysosome	*	0	
P17936			51								+	++	Insulin-like growth factor-binding protein 3, IGF-binding protein 3, IGFBP-3, IBP-3	Secreted	*	0	
P20933	5	18	21	10	10		18	71		5			N(4)-(beta-N-acetylglucosaminy)-L-asparaginase, Glycosylasparaginase, Aspartylglucosaminidase, AGA, N4-(N-acetyl-beta-glucosaminy)-L-asparagine amidase	Lysosome	*	0	
P21589	9	18	7		5	43	98	110	63	13	++/?	+++/?	5'-nucleotidase, Ecto-5'-nucleotidase, 5'-NT	Cell membrane, Lipid-anchor, GPI-anchor	*	0	CD73
P22304		3						6					Iduronate 2-sulfatase, Alpha-L-iduronate sulfate sulfatase, Idursulfase	Lysosome	*	0	
P24821			104	255		62	61				-	-	Tenascin, TN, Tenascin-C, TN-C, Hexabrachion, Cytactin, Neuronectin, GMEEM, JI, Myotendinous antigen, Glioma-associated-extracellular matrix antigen, GP 150-225	Secreted, Extracellular space, Extracellular matrix	*	0	
P25311		2									++	++	Zinc-alpha-2-glycoprotein, Zn-alpha-2-glycoprotein, Zn-alpha-2-GP	Secreted	*	0	
P28799	19	18			16	46	14	28			-	-	Granulins, Proepithelin, PEPI	Secreted	*	0	
P30533	13	9	8			11					+++	+++	Alpha-2-macroglobulin receptor-associated protein, Alpha-2-MRAP, Low density lipoprotein receptor-related protein-associated protein 1, RAP	Endoplasmic reticulum, Cytoplasm, Cell surface, Intracellular and associated with cell surface receptors. Found in the endoplasmic reticulum.	*	0	
P34059	20	40	12	16	28	41	27	48	7				N-acetylgalactosamine-6-sulfatase, N-acetylgalactosamine-6-sulfate sulfatase, Galactose-6-sulfate sulfatase, GalNAc6S sulfatase, Chondroitinsulfatase, Chondroitinase	Lysosome	*	0	
P35052			14	5	4	55			39	5			Glypican-1	Cell membrane, Lipid-anchor, GPI-anchor, Secreted, Extracellular space	*	0	
P35475		6						12					Alpha-L-iduronidase	Lysosome	*	0	
P35555							6				-	-	Fibrillin-1	Secreted, Extracellular space, Extracellular matrix	*	0	
P37198		7									+++	+++	Nuclear pore glycoprotein p62, 62 kDa nucleoporin	Nucleus, Nuclear pore complex, Central region of the nuclear pore, within the transporter. During mitotic cell division, it associates with the poles of the mitotic spindle.	*	0	
P39060						18	2	18			+/?	+/?	Collagen alpha-1(XVIII) chain	Secreted, Extracellular space, Extracellular matrix	*	0	
P41222					14	26					+/?	++/?	Prostaglandin-H2 D-isomerase, Lipocalin-type prostaglandin-D synthase, Glutathione-independent PGD synthetase, Prostaglandin-D2 synthase, PGD2 synthase, PGDS2, PGDS, Beta-trace protein, Cerebrin-28	Rough endoplasmic reticulum, Nucleus membrane, Golgi apparatus, Cytoplasm, Perinuclear region, Secreted, Detected on rough endoplasmic reticulum of arachnoid and meningioma cells. Localized to the nuclear envelope, Golgi apparatus, secretory vesicles and spherical cytoplasmic structures in arachnoid trabecular cells, and to circular cytoplasmic structures in meningeal macrophages and perivascular microglial cells. In oligodendrocytes, localized to the rough endoplasmic reticulum and nuclear envelope. In retinal pigment epithelial cells, localized to distinct cytoplasmic domains including the perinuclear region. Also secreted.	*	0	
P42785				8		8	63	136	5	10	++	+	Lysosomal Pro-X carboxypeptidase, Prolylcarboxypeptidase, PRCP, Proline carboxypeptidase, Angiotensinase C, Lysosomal carboxypeptidase C	Lysosome	*	0	
P43251	6	11					6	6					Biotinidase, Biotinase	Secreted, Extracellular space	*	0	
P48307						20					-/?	-/?	Tissue factor pathway inhibitor 2, TFPI-2, Placental protein 5, PP5	Secreted	*	0	
P50454	5	28			50	91	41	37	93	15	-	+++	Serp1 H1, Collagen-binding protein, Colligin, 47 kDa heat shock protein, Rheumatoid arthritis-related antigen RA-A47, Arsenic-transactivated protein 3, AsTP3, Cell proliferation-inducing gene 14 protein	Endoplasmic reticulum lumen	*	0	
P50897	22	43	76	32	12	43	67	188	10	10			Palmitoyl-protein thioesterase 1, PPT-1, Palmitoyl-protein hydrolase 1	Lysosome	*	0	

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P51688		15			34	19	49	32	14	45			N-sulphoglucosamine sulphohydrolase, Sulfo-glucosamine sulfamidase, Sulphamidase	Lysosome	*	0	
P53634	57	62	11	18	67	62	92	150	10				Dipeptidyl-peptidase 1, Dipeptidyl-peptidase I, DPP-I, DPP1, Cathepsin C, Cathepsin J, Dipeptidyl transferase	Lysosome	*	0	
P54802	2	7				2	3						Alpha-N-acetylglucosaminidase, N-acetyl-alpha-glucosaminidase, NAG		*	0	
P55290									19	7	-/?	-/?	Cadherin-13, Truncated cadherin, T-cadherin, T-cad, Heart cadherin, H-cadherin, P105	Cell membrane, Lipid-anchor, GPI-anchor	*	0	
P56159						21	14	22					GDNF family receptor alpha-1, GFR-alpha-1, GDNF receptor alpha, GDNFR-alpha, TGF-beta-related neurotrophic factor receptor 1, RET ligand 1	Cell membrane, Lipid-anchor, GPI-anchor	*	0	
P61769					6	9					+	++	Beta-2-microglobulin	Secreted	*	0	
P61916	22	49	25	33	47	154	140	463	68	55	++	+++	Epididymal secretory protein E1, Niemann-Pick disease type C2 protein, hE1	Secreted	*	0	
P80188	33	25				19					-	-	Neutrophil gelatinase-associated lipocalin, NGAL, p25, 25 kDa alpha-2-microglobulin-related subunit of MMP-9, Lipocalin-2, Oncogene 24p3	Secreted	*	0	
P98160	7	5									-/?	++/?	Basement membrane-specific heparan sulfate proteoglycan core protein, HSPG, Perlecan, PLC	Secreted, Extracellular space, Extracellular matrix, Basement membrane	*	0	
Q01082		4					19				++	++	Spectrin beta chain, brain 1, Spectrin, non-erythroid beta chain 1, Beta-II spectrin, Fodrin beta chain	Cytoplasm, Cytoskeleton, Cell membrane, Peripheral membrane protein	*	0	
Q01459		15					18	36			+++/?	++/?	Di-N-acetylchitinase	Lysosome	*	0	
Q02083					6	8							N-acyl ethanolamine-hydrolyzing acid amidase, N-acyl sphingosine amidohydrolase-like, ASAH-like protein, Acid ceramidase-like protein	Lysosome	*	0	
Q02388						10					-/?	++/?	Collagen alpha-1(VII) chain, Long-chain collagen, LC collagen	Secreted, Extracellular space, Extracellular matrix, Basement membrane	*	0	
Q02809		6	72	139		85	17	17	86	23			Procollagen-lysine 2-oxoglutarate 5-dioxygenase 1, Lysyl hydroxylase 1, LH1	Rough endoplasmic reticulum membrane, Peripheral membrane protein	*	0	
Q03405	4	5			5	19	7						Urokinase plasminogen activator surface receptor, uPAR, U-PAR, Monocyte activation antigen Mo3	Cell membrane, Lipid-anchor, GPI-anchor, Secreted	*	0	CD87
Q05707						18							Collagen alpha-1(XIV) chain, Undulin	Secreted, Extracellular space, Extracellular matrix	*	0	
Q08380	124	210	10		100	102	55	133			-	++	Galectin-3-binding protein, Lectin galactoside-binding soluble 3-binding protein, Mac-2-binding protein, Mac-2 BP, MAC2BP, Tumor-associated antigen 90K, Basement membrane autoantigen p105	Secreted, Secreted, Extracellular space, Extracellular matrix	*	0	
Q08431	23	10	28								+	+++	Lactadherin, Milk fat globule-EGF factor 8, MFG-E8, HMFG, Breast epithelial antigen BA46, MFGM	Membrane, Peripheral membrane protein	*	0	
Q10588					3	28							ADP-ribosyl cyclase 2, Cyclic ADP-ribose hydrolase 2, cADPr hydrolase 2, Bone marrow stromal antigen 1, BST-1	Cell membrane, Lipid-anchor, GPI-anchor	*	0	CD157
Q12805						45							EGF-containing fibulin-like extracellular matrix protein 1, Fibulin-3, FIBL-3, Fibrillin-like protein, Extracellular protein S1-5	Secreted	*	0	
Q12841						27	11						Follistatin-related protein 1, Follistatin-like 1	Secreted	*	0	
Q13449									10				Limbic system-associated membrane protein, LSAMP	Cell membrane, Lipid-anchor, GPI-anchor	*	0	
Q13510	16	48	39	23	46	34	49	111	5	29	+++	++	Acid ceramidase, AC, Acylsphingosine deacylase, N-acylsphingosine amidohydrolase, Putative 32 kDa heart protein, PHP32	Lysosome	*	0	
Q13751	10	8					10				++/?	++/?	Laminin subunit beta-3, Laminin 5 beta 3, Laminin B1k chain, Kalinin B1 chain	Secreted, Extracellular space, Extracellular matrix, Basement membrane	*	0	
Q13753	6	4									+++/?	++/?	Laminin subunit gamma-2, Laminin 5 gamma 2 subunit, Kalinin/nicein/epiligrin 100 kDa subunit, Laminin B2t chain, Cell-scattering factor 140 kDa subunit, CSF 140 kDa subunit, Large adhesive scatter factor 140 kDa subunit, Ladsin 140 kDa subunit	Secreted, Extracellular space, Extracellular matrix, Basement membrane, Major component.	*	0	
Q14508					17	40							WAP four-disulfide core domain protein 2, Major epididymis-specific protein E4, Epididymal secretory protein E4, Putative protease inhibitor WAP5	Secreted	*	0	
Q14697	6	6	23	37					7				Neutral alpha-glucosidase AB, Glucosidase II subunit alpha, Alpha-glucosidase 2	Endoplasmic reticulum, Golgi apparatus, Melanosome, Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
Q15293		5		34	21				29				Reticulocalbin-1	Endoplasmic reticulum lumen	*	0	
Q16270					9	69	99	108			+	++	Insulin-like growth factor-binding protein 7, IGF-binding protein 7, IGFBP-7, IBP-7, MAC25 protein, Prostacyclin-stimulating factor, PGI2-stimulating factor, IGFBP-rP1	Secreted	*	0	

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Q16363			52	55					6		++/?	+++/?	Laminin subunit alpha-4	Secreted, Extracellular space, Extracellular matrix, Basement membrane, Major component.	*	0	
Q16610			270	122									Extracellular matrix protein 1, Secretory component p85	Secreted, Extracellular space, Extracellular matrix	*	0	
Q16787	24	12									++/?	++/?	Laminin subunit alpha-3, Epiligrin 170 kDa subunit, E170, Nicein subunit alpha	Secreted, Extracellular space, Extracellular matrix, Basement membrane, Major component.	*	0	
Q7Z3B1								2	1		+	-	Neuronal growth regulator 1	Cell membrane, Lipid-anchor, GPI-anchor	*	0	
Q86YB8			22	24									ERO1-like protein beta, ERO1-Lbeta, Oxidoreductin-1-Lbeta, Endoplasmic oxidoreductin-1-like protein B	Endoplasmic reticulum membrane, Peripheral membrane protein, The association with TXNDC4 may be essential for its retention in the endoplasmic reticulum.	*	0	
Q8N2G4								6					Ly6/PLAUR domain-containing protein 1, Putative HeLa tumor suppressor, PHTS	Cell membrane, Lipid-anchor, GPI-anchor	*	0	
Q8N474			21	2							+++/?	+++/?	Secreted frizzled-related protein 1, sFRP-1, Frizzled-related protein 1, FRP-1, Secreted apoptosis-related protein 2, SARP-2	Secreted, Cell membrane or extracellular matrix-associated. Released by heparin-binding.	*	0	
Q8NBJ7	12	50	106	62	7	78	59	29	9				Sulfatase-modifying factor 2, C-alpha-formylglycine-generating enzyme 2	Endoplasmic reticulum lumen	*	0	
Q8NBK3							13	5					Sulfatase-modifying factor 1, C-alpha-formylglycine-generating enzyme 1	Endoplasmic reticulum lumen	*	0	
Q8NCC3			2		19	12	30	37		10			1-O-acylceramide synthase, ACS, Lysosomal phospholipase A2, Lysophospholipase 3, LPLA2, LCAT-like lysophospholipase, LLPL	Lysosome, Secreted	*	0	
Q92484							4	20					Acid sphingomyelinase-like phosphodiesterase 3a, ASM-like phosphodiesterase 3a	Secreted	*	0	
Q92485	34	87			15	50							Acid sphingomyelinase-like phosphodiesterase 3b, ASM-like phosphodiesterase 3b	Secreted	*	0	
Q92820	50	53	101	92	77	141	130	230	31	20	+++/?	+++/?	Gamma-glutamyl hydrolase, Gamma-Glu-X carboxypeptidase, Conjugase, GH	Secreted, Extracellular space, Lysosome, Melanosome, While its intracellular location is primarily the lysosome, most of the enzyme activity is secreted. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.	*	0	
Q92876	6	10											Kallikrein-6, Protease M, Neurosin, Zyme, SP59, Serine protease 9, Serine protease 18	Secreted, Nucleus, Nucleolus, Cytoplasm, Mitochondrion, Microsome, In brain, detected in the nucleus of glial cells and in the nucleus and cytoplasm of neurons. Detected in the mitochondrial and microsomal fractions of HEK-293 cells and released into the cytoplasm following cell stress.	*	0	
Q96AY3			102	85	7	79	68	20	10	4			FK506-binding protein 10, Peptidyl-prolyl cis-trans isomerase, PPIase, Rotamase, Immunophilin FKBP65, 65 kDa FK506-binding protein, FKBP65	Endoplasmic reticulum lumen	*	0	
Q96CG8			30	36									Collagen triple helix repeat-containing protein 1, NMTC1 protein	Secreted, Extracellular space, Extracellular matrix	*	0	
Q96D15			5	39	5								Reticulocalbin-3, EF-hand calcium-binding protein RLP49	Endoplasmic reticulum lumen	*	0	
Q96HE7	147	189	254	193	7	141	153	171	290	121			ERO1-like protein alpha, ERO1-Lalpha, ERO1-L, Oxidoreductin-1-Lalpha, Endoplasmic oxidoreductin-1-like protein	Endoplasmic reticulum membrane, Peripheral membrane protein, The association with TXNDC4 is essential for its retention in the endoplasmic reticulum.	*	0	
Q96JB6			12										Lysyl oxidase homolog 4, Lysyl oxidase-like protein 4, Lysyl oxidase-related protein C	Secreted, Extracellular space	*	0	
Q99519	7	21		8	47	126	46	59	52	45	+/?	+/?	Sialidase-1, Lysosomal sialidase, N-acetyl-alpha-neuraminidase 1, Acetylneuraminyl hydrolase, G9 sialidase	Lysosome membrane, Peripheral membrane protein, Lysosome lumen, Cell membrane, Cytoplasmic vesicle, Localized not only on the inner side of the lysosomal membrane and in the lysosomal lumen, but also on the plasma membrane and in intracellular vesicles.	*	0	
Q99538	15	25	29	20	10	23	22	24			+	++	Legumain, Asparaginyl endopeptidase, Protease, cysteine 1	Lysosome	*	0	
Q99715						27		4			+/?	+/?	Collagen alpha-1(XII) chain	Secreted, Extracellular space, Extracellular matrix	*	0	
Q99988	12	16	404	42		12					+	+	Growth/differentiation factor 15, GDF-15, Placental bone morphogenetic protein, Placental TGF-beta, Macrophage inhibitory cytokine 1, MIC-1, Prostate differentiation factor, NSAID-regulated protein 1, NRG-1	Secreted	*	0	
Q9BRK5				2	17						+++/?	+++/?	45 kDa calcium-binding protein, Cab45, Stromal cell-derived factor 4, SDF-4	Golgi apparatus lumen	*	0	

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Q9GZM7	20	6					10					Tubulointerstitial nephritis antigen-like, Tubulointerstitial nephritis antigen-related protein, TIN Ag-related protein, TIN-Ag-RP, Glucocorticoid-inducible protein 5, Oxidized LDL-responsive gene 2 protein, OLRG-2	Secreted	*	0	
Q9H173			6		5					++	+++	Nucleotide exchange factor SIL1, BiP-associated protein, BAP	Endoplasmic reticulum lumen	*	0	
Q9H3G5	42	47		12	29				5	+++	+++	Probable serine carboxypeptidase CPVL, Carboxypeptidase, vitellogenic-like, Vitellogenic carboxypeptidase-like protein, VCP-like protein, HVLP		*	0	
Q9HAT2	40	44	24		65	59	26	64				Sialate O-acetyltransferase, Sialic acid-specific 9-O-acetyltransferase, H-Lse	Lysosome	*	0	
Q9HB40							6	18				Retinoid-inducible serine carboxypeptidase, Serine carboxypeptidase 1	Secreted	*	0	
Q9NYU2	4	6	25	20								UDP-glucose:glycoprotein glucosyltransferase 1, UDP-glucose ceramide glucosyltransferase-like 1, UDP-Glc:glycoprotein glucosyltransferase, HUGT1	Endoplasmic reticulum lumen, Endoplasmic reticulum-Golgi intermediate compartment	*	0	
Q9UBP4								6	6	+/?	+/?	Dickkopf-related protein 3, Dickkopf-3, Dkk-3, hDkk-3	Secreted	*	0	
Q9UBR2	13	38	18	55	69	85	216	306	34	23		Cathepsin Z, Cathepsin X, Cathepsin P	Lysosome	*	0	
Q9UBS4	4	13		22					6		+++	DnaJ homolog subfamily B member 11, ER-associated dnaJ protein 3, ERj3p, ERdj3, ER-associated Hsp40 co-chaperone, ER-associated DNAJ, HEDJ, hDj9, PWP1-interacting protein 4, APOBEC1-binding protein 2, ABBP-2	Endoplasmic reticulum lumen, Associated with the ER membrane in a C-terminally epitope-tagged construct.	*	0	
Q9UHG3	11	11	11			21	7	64	27			Prenylcysteine oxidase 1, Prenylcysteine lyase	Lysosome	*	0	
Q9UHL4	63	116	48	72	50	93	118	195	2	34		Dipeptidyl-peptidase 2, Dipeptidyl-peptidase II, DPP II, Dipeptidyl aminopeptidase II, Quiescent cell proline dipeptidase, Dipeptidyl peptidase 7	Lysosome, Cytoplasmic vesicle	*	0	
Q9UM22			18	14	43	55	54	59	23	26		Mammalian ependymin-related protein 1, MERP-1, Upregulated in colorectal cancer gene 1 protein	Secreted	*	0	
Q9UMR5	3	2			8	18	5	32				Lysosomal thioesterase PPT2, PPT-2, S-thioesterase G14	Lysosome	*	0	
Q9UNW1	36	41	13	8		19	2	22				Multiple inositol polyphosphate phosphatase 1, Inositol (1,3,4,5)-tetrakisphosphate 3-phosphatase, Ins(1,3,4,5)P(4) 3-phosphatase	Endoplasmic reticulum lumen	*	0	
Q9Y251	2	7									++	++	Heparanase, Heparanase-1, Hpa1, Endoglycoronidase	Lysosome membrane, Peripheral membrane protein, Secreted, Secreted, internalised and transferred to late endosomes/lysosomes as a proheparanase. In lysosomes, it is processed into the active form, the heparanase. The uptake or internalisation of proheparanase is mediated by HSPGs. Heparin appears to be a competitor and retain proheparanase in the extracellular medium.	*	0
Q9Y2E5		13			27	17	36	47					Epididymis-specific alpha-mannosidase, Mannosidase alpha class 2B member 2	Secreted	*	0
Q9Y2G5			9	35									GDP-fucose protein O-fucosyltransferase 2, Peptide O-fucosyltransferase 2, O-FucT-2	Endoplasmic reticulum	*	0
Q9Y4L1	230	468	570	572	27	300	156	143	306	85			Hypoxia up-regulated protein 1, 150 kDa oxygen-regulated protein, Orp150	Endoplasmic reticulum lumen	*	0
Q9Y680							33	19			+	++	FK506-binding protein 7, Peptidyl-prolyl cis-trans isomerase, PPIase, Rotamase, FKBP-23	Endoplasmic reticulum lumen	*	0
Q9Y6C2			23	79							-	-	EMILIN-1, Elastin microfibril interface-located protein 1, Elastin microfibril interfacer 1	Secreted, Extracellular space, Extracellular matrix, Found mainly at the interface between amorphous elastin and microfibrils.	*	0