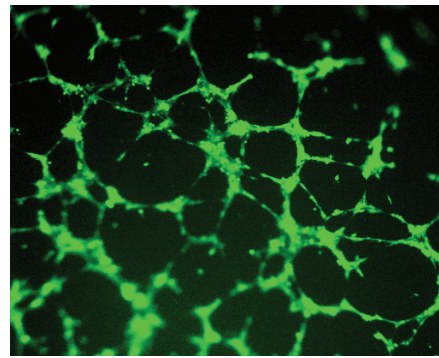
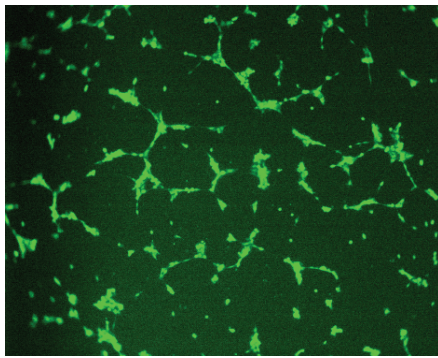


Online-Figure I

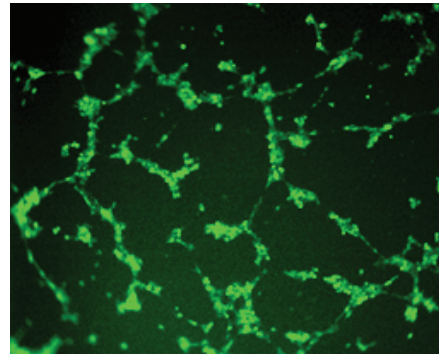
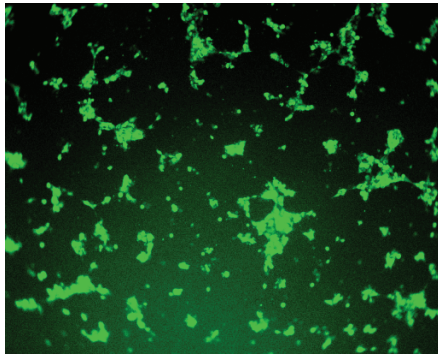
HUVEC

BAEC

Vehicle



2-BP
(20 μ M)



2-BP
(50 μ M)

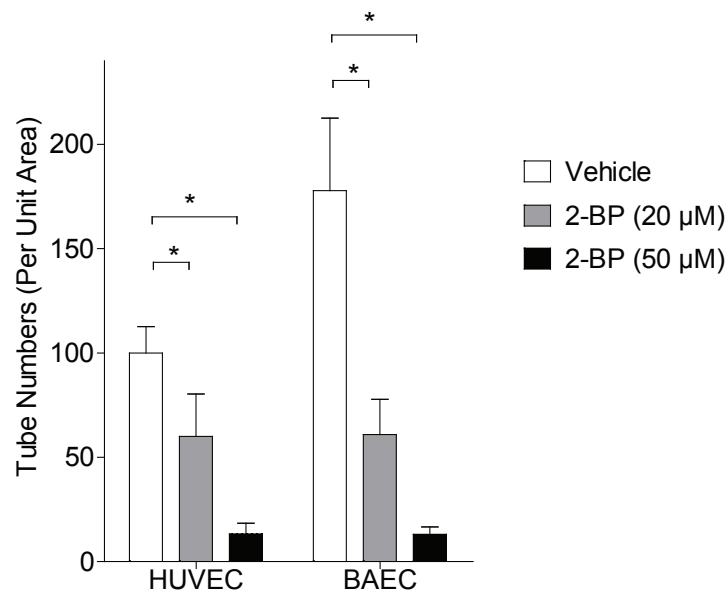
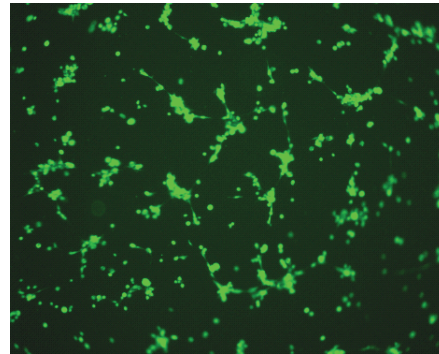
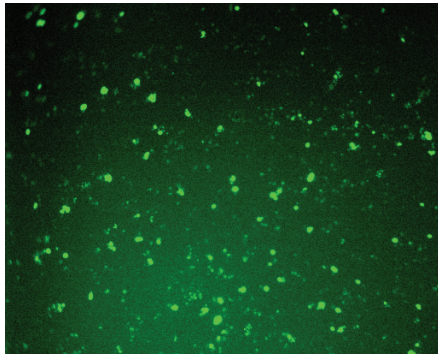


Figure I. HUVEC or BAEC were treated with vehicle or 2-BP (20 μ M or 50 μ M) and plated on Matrigel in the presence of EBM-2 media containing 5% FBS. Representative images (3 experiments) are shown, and quantification of tube numbers is presented in the bottom panel. *indicates $P < 0.05$.

Online-Figure II

shRNA Lentiviral Knockdown

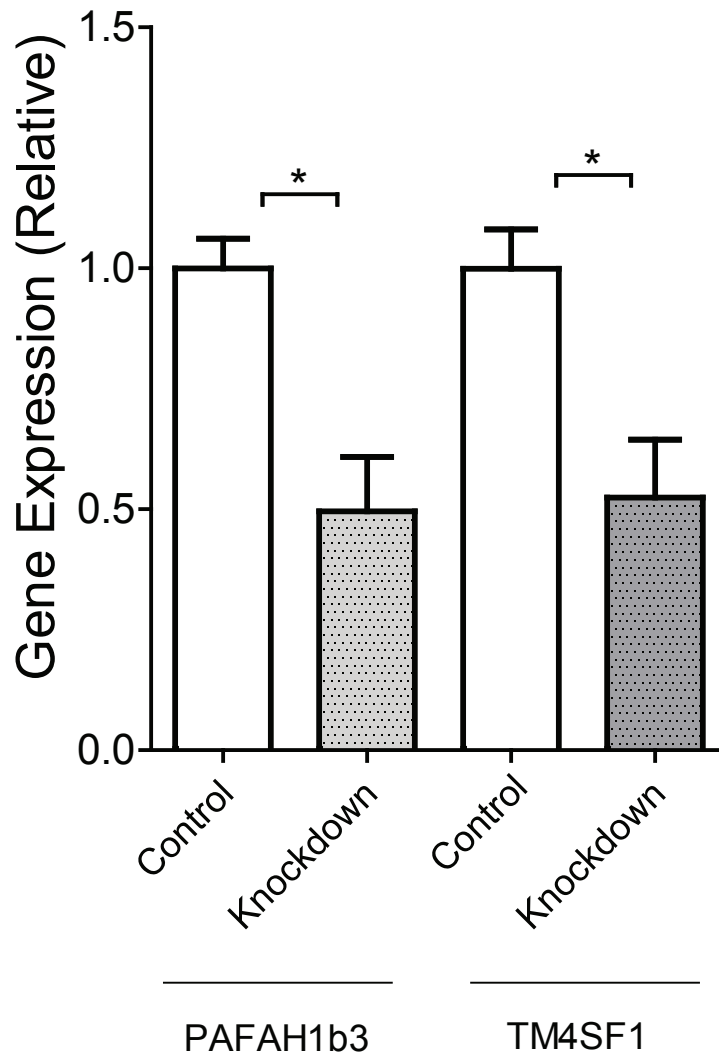


Figure II. Relative gene expression determined by qRT-PCR in HUVEC cells that were treated with lentiviral shRNA knockdown for PAFAH1b3 or TM4SF1 (n=3 or 4). *indicates P<0.05.

Online-Figure III

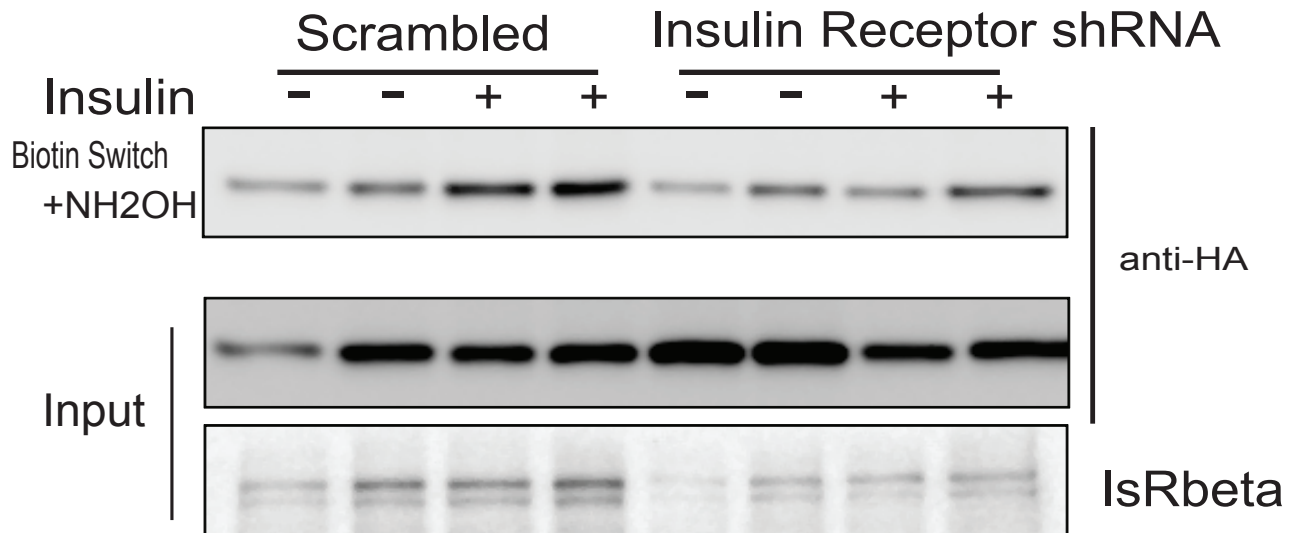


Figure III. Biotin switch assay for palmitoylation of HA-PAFAH1b3 protein in 293 cells that were treated with lentiviral shRNA knockdown for the insulin receptor. These results are representative of 3 independent experiments. The top panel is tagged PAFAH1b3 that is palmitoylated, the middle panel is total tagged PAFAH1b3, and the bottom panel is the beta subunit of the insulin receptor.

Online-Figure IV

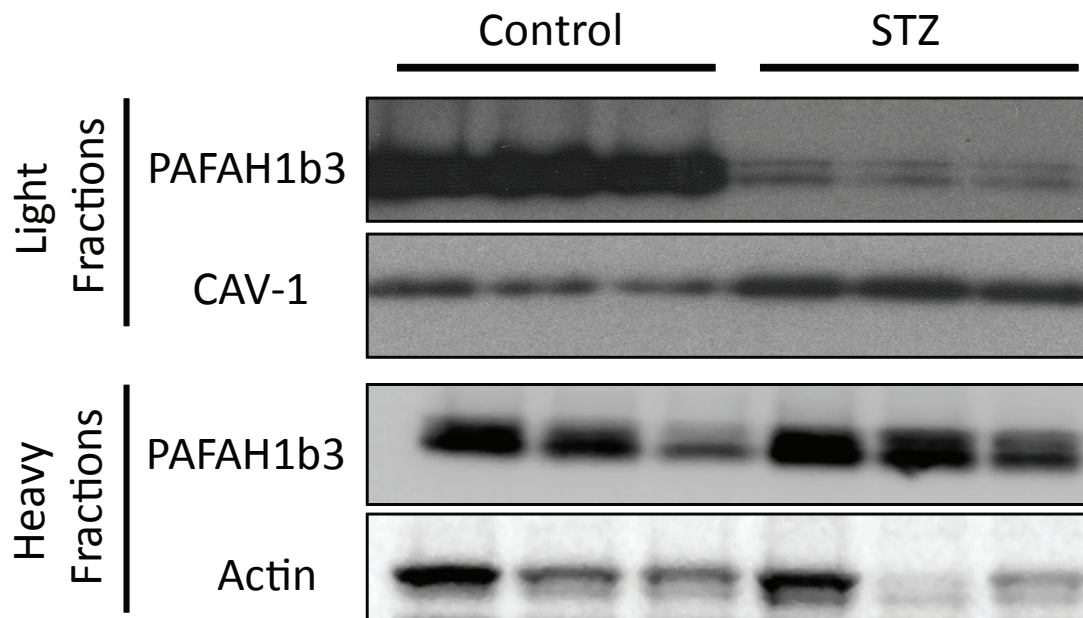


Figure IV. Detergent-resistant membrane localization (light fractions) of PAFAH1b3 protein in the skeletal muscle tissue from control or mice with STZ-induced diabetes.

Online-Table I

Palmitoylation candidates.

G protein associated regulators

RhoA activator C11orf59, **Gα-11**, **Gα-13**, Gα-14, Gai-2, **Gα(o)**, **Gαq**, Ral-A, Ral-B, **Rap-2b**, **Rap-2c**, **H-ras**, **N-Ras**, RhoJ, **R-Ras**, R-Ras2, Rab-18

HLA class I histocompatibility antigens

B-8 α chain, B-18 α chain, B-41 α chain, B-45 α chain, Cw-3 α chain, Cw-7 α chain, Cw15 α chain, Cw-17 α chain

Transporters

Neutral amino acid transporter B(0), **Cation-dependent mannose-6-phosphate receptor**, **Phospholipid scramblase 1**, **Phospholipid scramblase 3**, PTTG-binding factor

Metabolism

Aldehyde dehydrogenase family 1 member B1, Cytochrome c, Gpx1, Gpx8, PPOX, Peroxiredoxin-6, 3-mercaptopyruvate sulfurtransferase, **Thioredoxin-related transmembrane protein 1**, Thioredoxin reductase 1, **eNOS**

Chaperones

Calnexin, Serpin H1, AUP1, **DnaJ homolog subfamily C member 5**

Proteases, phosphatases or glycosylation enzymes

Calpain-5, Dual specificity protein phosphatase 23, **Endothelin-converting enzyme 1**, Polypeptide N-acetylgalactosaminyltransferase 1, D-glucuronyl C5-epimerase, ER α-1,2-mannosidase, Malectin, **MMP-14**

Scaffold proteins

Caveolin-1, Caveolin-2, **Flotillin-1**, **Flotillin-2**, Nuclear mitotic apparatus protein 1, PDZ and LIM domain protein 1

Cytoskeleton-associated proteins

Cytoskeleton-associated protein 4, Peripherin, Plectin, Dynactin subunit 1

Vesicular or membrane protein trafficking

Golga7, Reticulon-1, Reticulon-4, SCAM-1, SCAM-2, SCAM-3, **SNAP-23**, Stomatin-like protein 3, **Stomatin**, Syntaxin-12, TM4SF1, **Trafficking protein particle complex subunit 3**, VAMP-3, VAMP-4, VAMP-5, Myoferlin

Cell adhesion or ECM interactions

CD151, **CD44**, **CD81**, **CD9**, Claudin-11, p120 catenin, Endoglin, Ig1, ICAM-2, Integrin-α3, Integrin-α6, JAM-3, LYRIC, Mucin 18, **CD31**, FBLN3

Receptors

Endothelial protein C receptor, Prostaglandin F2 receptor negative regulator, IFITM1, **IFITM3**, IL-6Rβ, Neuropilin-1, Poliovirus receptor, Receptor expression-enhancing protein 5, **CD36**, **Transferrin receptor protein 1**, Tumor necrosis factor receptor superfamily member 12A

Transcription, translation regulators

Enhancer of polycomb homolog 1, Mediator of DNA damage checkpoint protein 1, Histone acetyltransferase MYST4, Zinc finger protein 806

Others

FAM176A, FAM49A, FAM49B, Palmitoyltransferase ZDHHC13

Proteins are grouped based on functional characteristics. Known palmitoylated proteins are shown in bold.

Online-Table II

M and H represent proteins identified in prior screens with medium or high confidence, respectively. Y represents known palmitoylated protein with references as noted.

					Prior Screen							
					Reference #	18	12	13				
					Cells	Du-145	Jurkat	Neuron				
					Method	ABE	17-ODYA	ABE				
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References	
1A02_HUMAN	HLA class I histocompatibility antigen, A-2 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1	5.57	2.6585	27			H	Cell surface, membrane		Receptor, cell surface molecules		
1A30_HUMAN	HLA class I histocompatibility antigen, A-30 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2	7.7	5.5207	28				Cell surface, membrane		Receptor, cell surface molecules		
1A34_HUMAN	HLA class I histocompatibility antigen, A-34 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1	8.39	4.8964	35				Cell surface, membrane		Receptor, cell surface molecules		
1A69_HUMAN	HLA class I histocompatibility antigen, A-69 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2	6.75	3.909	29				Cell surface, membrane		Receptor, cell surface molecules		
1B07_HUMAN	HLA class I histocompatibility antigen, B-7 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=3	20.16	7.4789	51				Cell surface, membrane		Receptor, cell surface molecules		
1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	22.51	4.4411	42				Cell surface, membrane		Receptor, cell surface molecules		
1B15_HUMAN	HLA class I histocompatibility antigen, B-15 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2	21.64	10.7281	42				Cell surface, membrane		Receptor, cell surface molecules		
1B18_HUMAN	HLA class I histocompatibility antigen, B-18 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	22.69	4.5144	43				Cell surface, membrane		Receptor, cell surface molecules		
1B27_HUMAN	HLA class I histocompatibility antigen, B-27 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2	27.52	10.9047	33				Cell surface, membrane		Receptor, cell surface molecules		
1B35_HUMAN	HLA class I histocompatibility antigen, B-35 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	20.07	9.9713	43				Cell surface, membrane		Receptor, cell surface molecules		
1B37_HUMAN	HLA class I histocompatibility antigen, B-37 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	25.38	10.9477	32				Cell surface, membrane		Receptor, cell surface molecules		
1B38_HUMAN	HLA class I histocompatibility antigen, B-38 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	24.42	9.3742	36				Cell surface, membrane		Receptor, cell surface molecules		
1B40_HUMAN	HLA class I histocompatibility antigen, B-40 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	21.71	8.2768	52				Cell surface, membrane		Receptor, cell surface molecules		
1B41_HUMAN	HLA class I histocompatibility antigen, B-41 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	20.78	2.4254	56				Cell surface, membrane		Receptor, cell surface molecules		
1B44_HUMAN	HLA class I histocompatibility antigen, B-44 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	25.1	9.9429	27	M		H	Cell surface, membrane		Receptor, cell surface molecules		
1B45_HUMAN	HLA class I histocompatibility antigen, B-45 alpha chain	5.95	3.8605	9				Cell surface, membrane		Receptor, cell surface molecules		
1B47_HUMAN	HLA class I histocompatibility antigen, B-47 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	27.52	2.0725	35				Cell surface, membrane		Receptor, cell surface molecules		
1B48_HUMAN	HLA class I histocompatibility antigen, B-48 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	22.86	4.8256	46				Cell surface, membrane		Receptor, cell surface molecules		
1B49_HUMAN	HLA class I histocompatibility antigen, B-49 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=2	26.73	10.9244	37				Cell surface, membrane		Receptor, cell surface molecules		

				Prior Screen									
				Reference #	18	12	13						
				Cells	Du-145	Jurkat	Neuro n						
				Method	ABE	17-ODYA	ABE						
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References		
1B51_HUMAN	HLA class I histocompatibility antigen, B-51 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	22.67	10.0964	33				Cell surface, membrane		Receptor, cell surface molecules			
1B54_HUMAN	HLA class I histocompatibility antigen, B-54 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	22.92	10.602	36				Cell surface, membrane		Receptor, cell surface molecules			
1B55_HUMAN	HLA class I histocompatibility antigen, B-55 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	23.59	10.9688	35				Cell surface, membrane		Receptor, cell surface molecules			
1B57_HUMAN	HLA class I histocompatibility antigen, B-57 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	22.58	11.8872	35				Cell surface, membrane		Receptor, cell surface molecules			
1B58_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	21.39	10.1557	36				Cell surface, membrane		Receptor, cell surface molecules			
1B73_HUMAN	HLA class I histocompatibility antigen, B-73 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	13.68	6.673	43				Cell surface, membrane		Receptor, cell surface molecules			
1B82_HUMAN	HLA class I histocompatibility antigen, B-82 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	27.77	10.1414	32				Cell surface, membrane		Receptor, cell surface molecules			
1C01_HUMAN	HLA class I histocompatibility antigen, Cw-1 alpha chain OS=Homo sapiens GN=HLA-C PE=2 SV=1	10.29	7.0502	38	M	H		Cell surface, membrane		Receptor, cell surface molecules			
1C02_HUMAN	HLA class I histocompatibility antigen, Cw-2 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	12.58	9.5193	42				Cell surface, membrane		Receptor, cell surface molecules			
1C03_HUMAN	HLA class I histocompatibility antigen, Cw-3 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2	11.58	4.4743	52				Cell surface, membrane		Receptor, cell surface molecules			
1C04_HUMAN	HLA class I histocompatibility antigen, Cw-4 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	12.12	7.3604	36				Cell surface, membrane		Receptor, cell surface molecules			
1C06_HUMAN	HLA class I histocompatibility antigen, Cw-6 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2	9.99	7.7701	45				Cell surface, membrane		Receptor, cell surface molecules			
1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=3	11.9	5.3138	52				Cell surface, membrane		Receptor, cell surface molecules			
1C12_HUMAN	HLA class I histocompatibility antigen, Cw-12 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2	10.92	7.4722	51				Cell surface, membrane		Receptor, cell surface molecules			
1C15_HUMAN	HLA class I histocompatibility antigen, Cw-15 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	11.94	4.7821	45				Cell surface, membrane		Receptor, cell surface molecules			
1C16_HUMAN	HLA class I histocompatibility antigen, Cw-16 alpha chain	5.64	4.1842	5				Cell surface, membrane		Receptor, cell surface molecules			
1C17_HUMAN	HLA class I histocompatibility antigen, Cw-17 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	12.53	6.181	46				Cell surface, membrane		Receptor, cell surface molecules			
1C18_HUMAN	HLA class I histocompatibility antigen, Cw-18 alpha chain OS=Homo sapiens GN=HLA-C PE=2 SV=1	12.74	7.0073	38				Cell surface, membrane		Receptor, cell surface molecules			
4F2_HUMAN	4F2 cell-surface antigen heavy chain OS=Homo sapiens GN=SLC3A2 PE=1 SV=3	1.71	0.0906	4			H	Cell membrane		Transporter, vesicular or membrane trafficking			
AAAT_HUMAN	Neutral amino acid transporter B(0) OS=Homo sapiens GN=SLC1A5 PE=1 SV=2	14.39	6.5197	61	H	H		Cell membrane		Transporter, vesicular or membrane trafficking			
ADA10_HUMAN	Disintegrin and metalloproteinase domain-containing protein 10 OS=Homo sapiens GN=ADAM10 PE=1 SV=1	16.29	9.7333	15		M	M	Cell membrane, Golgi		Protease or protein degradation			
ADA17_HUMAN	Disintegrin and metalloproteinase domain-containing protein 17	16.68	5.7417	9	H			Cell membrane		Protease or protein degradation			

				Prior Screen													
				Reference #	18	12	13					Location		Function Class		References	
				Cells	Du-145	Jurkat	Neuro n										
				Method	ABE	17-ODYA	ABE										
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Known Palmitoylation									
	OS=Homo sapiens GN=ADAM17 PE=1 SV=1																
AKAP9_HUMAN	A-kinase anchor protein 9 OS=Homo sapiens GN=AKAP9 PE=1 SV=3	20.66	2.1429	2					Cytoplasm, Golgi		Scaffolding protein						
AL1B1_HUMAN	Aldehyde dehydrogenase X, mitochondrial OS=Homo sapiens GN=ALDH1B1 PE=1 SV=3	3.51	1.2549	6	H				Mitochondrial matrix		Metabolism						
ANKZ1_HUMAN	Ankyrin repeat and zinc finger domain-containing protein 1 OS=Homo sapiens GN=ANKZF1 PE=1 SV=1	4.24	0.1804	3					Unknown		Others						
ANTR2_HUMAN	Anthrax toxin receptor 2 OS=Homo sapiens GN=ANTXR2 PE=1 SV=5	13.18	5.5924	5	M				Cell, ER membrane, secreted	Y	Receptor, cell surface molecules	J Cell Biol. 2006 Jan 16;172(2):309-20. Epub 2006 Jan 9.					
ARL15_HUMAN	ADP-ribosylation factor-like protein 15 OS=Homo sapiens GN=ARL15 PE=1 SV=1	12.77	3.4194	7	H	M	M		Unknown		G protein associated regulator						
ARVC_HUMAN	Armadillo repeat protein deleted in velo-cardio-facial syndrome OS=Homo sapiens GN=ARVCF PE=1 SV=1	7.08	2.3202	16			M		Cell surface, membrane		Cell adhesion or ECM interaction						
AT11A_HUMAN	Probable phospholipid-transporting ATPase 1H OS=Homo sapiens GN=ATP11A PE=2 SV=3	1.8	0.0906	2	H				Cell surface, membrane		Transporter, vesicular or membrane trafficking						
ATG3_HUMAN	Ubiquitin-like-conjugating enzyme ATG3 OS=Homo sapiens GN=ATG3 PE=1 SV=1	1.65	0.1001	5					Cytoplasm		Autophagy or apoptosis						
ATG7_HUMAN	Ubiquitin-like modifier-activating enzyme ATG7 OS=Homo sapiens GN=ATG7 PE=1 SV=1	1.85	0.0566	6					Cytoplasm		Autophagy or apoptosis						
AUP1_HUMAN	Ancient ubiquitous protein 1 OS=Homo sapiens GN=AUP1 PE=1 SV=1	9.85	4.1179	14	H	H			ER membrane		Chaperone						
B2L12_HUMAN	Bcl-2-like protein 12 OS=Homo sapiens GN=BCL2L12 PE=1 SV=1	16.51	6.1301	2	M				Unknown		Autophagy or apoptosis						
B4GT1_HUMAN	Beta-1,4-galactosyltransferase 1 OS=Homo sapiens GN=B4GALT1 PE=1 SV=5	13.3	5.1149	2	M	M			Golgi		Phosphorylation or glycosylation						
B4GT5_HUMAN	Beta-1,4-galactosyltransferase 5 OS=Homo sapiens GN=B4GALT5 PE=2 SV=1	13.3	5.1149	2					Golgi		Phosphorylation or glycosylation						
BCAM_HUMAN	Basal cell adhesion molecule OS=Homo sapiens GN=BCAM PE=1 SV=2	5.56	3.3602	7	H				Cell membrane		Cell adhesion or ECM interaction						
BET1_HUMAN	BET1 homolog OS=Homo sapiens GN=BET1 PE=1 SV=1	8.01	0.3536	5					Golgi, ER membrane		Transporter, vesicular or membrane trafficking						
BET1L_HUMAN	BET1-like protein OS=Homo sapiens GN=BET1L PE=1 SV=1	25.52	19.4602	2					Golgi, ER membrane		Transporter, vesicular or membrane trafficking						
BGAL_HUMAN	Beta-galactosidase	20.2805	15.14	2					Cytoplasm, lysosome		Phosphorylation or glycosylation						
BST2_HUMAN	Bone marrow stromal antigen 2 OS=Homo sapiens GN=BST2 PE=1 SV=1	7.52	0.1001	3					Cell membrane		Transporter, vesicular or membrane trafficking						
BTF3_HUMAN	Transcription factor BTF3 OS=Homo sapiens GN=BTF3 PE=1 SV=1	2.12	0.0407	2					Nucleus		Transcription or translation regulator						
C1QBP_HUMAN	Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Homo sapiens GN=C1QBP PE=1 SV=1	2.01	0.2042	15					Mitochondrion		Others						
CALX_HUMAN	Calnexin OS=Homo sapiens GN=CANX PE=1 SV=2	35.9	18.8499	254	H	H	H		ER membrane	Y	Chaperone	EMBO J. 2011 Nov 1. doi: 10.1038/emboj.2011.384. [Epub ahead of print]					
CAN5_HUMAN	Calpain-5 OS=Homo sapiens GN=CAPN5 PE=2 SV=2	9.27	2.6542	12			H		Cytoplasm		Protease or protein degradation						
CATB_HUMAN	Cathepsin B OS=Homo sapiens GN=CTSB PE=1 SV=3	1.87	0.1706	15			M		Lysosome		Protease or protein degradation						
CATZ_HUMAN	Cathepsin Z OS=Homo sapiens GN=CTSZ PE=1 SV=1	2.01	0.0799	2					Lysosome		Protease or protein degradation						
CAV1_HUMAN	Caveolin-1 OS=Homo sapiens GN=CAV1 PE=1 SV=4	32.18	12.884	213	H				Cell membrane	Y	Scaffolding protein	J Biol Chem. 1995 Mar 24;270(12):6838-42.					
CAV2_HUMAN	Caveolin-2 OS=Homo sapiens GN=CAV2 PE=1 SV=2	30.09	6.3199	42	H				Cell membrane		Scaffolding protein						

				Prior Screen													
				Reference #	18	12	13					Location		Function Class		References	
				Cells	Du-145	Jurkat	Neuro n										
				Method	ABE	17-ODYA	ABE										
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Known Palmitoylation									
CB018_HUMAN	Transmembrane protein C2orf18 OS=Homo sapiens GN=C2orf18 PE=1 SV=1	13.25	4.4482	2	H				Cell membrane		Others						
CBR3_HUMAN	Carbonyl reductase [NADPH] 3 OS=Homo sapiens GN=CBR3 PE=1 SV=3	1.51	0.134	4					Cytoplasm		Metabolism						
CCNY_HUMAN	Cyclin-Y OS=Homo sapiens GN=CCNY PE=1 SV=2	10.39	3.131	12	H	H			Cell membrane		Others						
CCYL1_HUMAN	Cyclin-Y-like protein 1 OS=Homo sapiens GN=CCYL1 PE=1 SV=2	10.09	1.13	4	M	M			Cell membrane		Others						
CD151_HUMAN	CD151 antigen OS=Homo sapiens GN=CD151 PE=1 SV=3	15.7	2.449	27	H			Y	Cell surface, membrane		Cell adhesion or ECM interaction	Mol Biol Cell. 2002 Mar;13(3):767-81.					
CD276_HUMAN	CD276 antigen OS=Homo sapiens GN=CD276 PE=1 SV=1	5.32	0.134	3	M			M	Cell surface, membrane		Receptor, cell surface molecules						
CD44_HUMAN	CD44 antigen OS=Homo sapiens GN=CD44 PE=1 SV=3	34.4	10.1955	143	H			Y	Cell surface, membrane		Receptor, cell surface molecules	J Biol Chem. 2006 Nov 10;281(45):34601-9. Epub 2006 Aug 30.					
CD63_HUMAN	CD63 antigen OS=Homo sapiens GN=CD63 PE=1 SV=2	28.54	4.2133	42	H				Cell membrane		Scaffolding protein						
CD81_HUMAN	CD81 antigen OS=Homo sapiens GN=CD81 PE=1 SV=1	30.74	15.5121	45	H	M		Y	Cell surface, membrane		Receptor, cell surface molecules	J Biol Chem. 2004 Jul 23;279(30):31973-82. Epub 2004 May 25.					
CD82_HUMAN	CD82 antigen OS=Homo sapiens GN=CD82 PE=1 SV=1	20.77	0.4288	6		M		Y	Cell surface, membrane		Receptor, cell surface molecules	Cancer Res. 2004 Oct 15;64(20):7455-63.					
CD9_HUMAN	CD9 antigen OS=Homo sapiens GN=CD9 PE=1 SV=4	19.69	5.3344	133	H			Y	Cell membrane		Cell adhesion or ECM interaction	Mol Biol Cell. 2008 Aug;19(8):3415-25. Epub 2008 May 28.					
CDK1_HUMAN	Cyclin-dependent kinase 1	2.84	<0.0001	2					Cytoplasm, Nucleus		Phosphorylation or glycosylation						
CF125_HUMAN	Uncharacterized protein C6orf125 OS=Homo sapiens GN=C6orf125 PE=1 SV=1	26.21	13.21	12	M			M	Unknown		Others						
CH082_HUMAN	UPF0598 protein C8orf82 OS=Homo sapiens GN=C8orf82 PE=1 SV=2	7.02	0.2133	2					Unknown		Others						
CHD3_HUMAN	Chromodomain-helicase-DNA-binding protein 3 OS=Homo sapiens GN=CHD3 PE=1 SV=3	16.14	1.4152	2					Cytoplasm, Nucleus		Transcription or translation regulator						
CISD1_HUMAN	CDGSH iron-sulfur domain-containing protein 1 OS=Homo sapiens GN=CISD1 PE=1 SV=1	1.57	0.142	3					Mitochondrial membrane		Metabolism						
CJ058_HUMAN	UPF0765 protein C10orf58 OS=Homo sapiens GN=C10orf58 PE=1 SV=3	2.02	0.2224	16					Secreted		Others						
CK059_HUMAN	RhoA activator C11orf59 OS=Homo sapiens GN=C11orf59 PE=1 SV=2	24.94	7.0557	63	H	H	H		Cell membrane		Scaffolding protein						
CKAP4_HUMAN	Cytoskeleton-associated protein 4 OS=Homo sapiens GN=CKAP4 PE=1 SV=2	18.7	5.5033	201	H			Y	ER membrane		Cytoskeleton associated protein	Mol Biol Cell. 2009 Mar;20(5):1454-63. Epub 2009 Jan 14.					
CKLF7_HUMAN	CKLF-like MARVEL transmembrane domain-containing protein 7 OS=Homo sapiens GN=CMTM7 PE=2 SV=1	12.99	8.4097	7					Cell membrane		Others						
CLC14_HUMAN	C-type lectin domain family 14 member A OS=Homo sapiens GN=CLEC14A PE=1 SV=1	16.7	3.3199	51					Cell membrane		Cell adhesion or ECM interaction						
CLD11_HUMAN	Claudin-11 OS=Homo sapiens GN=CLDN11 PE=1 SV=2	8.33	2.2527	26					Cell membrane		Cell adhesion or ECM interaction						
CLD5_HUMAN	Claudin-5 OS=Homo sapiens GN=CLDN5 PE=1 SV=1	10.76	2.7699	10					Cell membrane		Cell adhesion or ECM interaction						
CLGN_HUMAN	Calmeglin OS=Homo sapiens GN=CLGN PE=1 SV=1	19.46	<0.0001	2		M			ER membrane		Others						
CPSF1_HUMAN	Cleavage and polyadenylation specificity factor subunit 1 OS=Homo sapiens GN=CPSF1 PE=1 SV=2	2.2	0.2605	2					Nucleus		Transcription or translation regulator						
CRIM1_HUMAN	Cysteine-rich motor neuron 1 protein OS=Homo sapiens GN=CRIM1 PE=1 SV=1	41.58	1.4647	8					Cell membrane		Receptor, cell surface molecules						
CSPG2_HUMAN	Versican core protein OS=Homo sapiens GN=VCAN PE=1 SV=3	1.55	0.142	3					Secreted		Cell adhesion or ECM interaction						
CTDS1_HUMAN	Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1 OS=Homo sapiens GN=CTDSP1 PE=1 SV=1	9.88	3.3199	3	H	M			Nucleus		Transcription or translation regulator						
CTL1_HUMAN	Choline transporter-like protein 1 OS=Homo sapiens GN=SLC44A1 PE=1 SV=1	16.6	5.2688	12	H				Cell membrane		Transporter, vesicular or membrane trafficking						
CTL2_HUMAN	Choline transporter-like protein 2 OS=Homo sapiens	33.2	2.1073	6	M			H	Cell membrane		Transporter, vesicular or						

				Prior Screen											
				Reference #	18	12	13								
				Cells	Du-145	Jurkat	Neuro n								
				Method	ABE	17-ODYA	ABE								
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References				
	GN=SLC44A2 PE=1 SV=3									membrane trafficking					
CTND1_HUMAN	Catenin delta-1 OS=Homo sapiens GN=CTNND1 PE=1 SV=1	17.76	5.2931	152	H		M	Cell membrane		Cell adhesion or ECM interaction					
CY1_HUMAN	Cytochrome c1, heme protein, mitochondrial OS=Homo sapiens GN=CYC1 PE=1 SV=3	2.01	0.1834	2			M	Mitochondrion		Metabolism					
CYB5B_HUMAN	Cytochrome b5 type B OS=Homo sapiens GN=CYB5B PE=1 SV=2	9.67	0.7954	12	M		M	Mitochondrion		Metabolism					
CYC_HUMAN	Cytochrome c OS=Homo sapiens GN=CYCS PE=1 SV=2	1.96	0.0414	7			M	Mitochondrial matrix		Metabolism					
DAG1_HUMAN	Dystroglycan OS=Homo sapiens GN=DAG1 PE=1 SV=2	34.02	9.159	9			M	Cell membrane, secreted		Receptor, cell surface molecules					
DCTN1_HUMAN	Dynactin subunit 1 OS=Homo sapiens GN=DCTN1 PE=1 SV=3	3.17	3.363	2				Cytoskeleton		Cytoskeleton associated protein					
DESM_HUMAN	Desmin OS=Homo sapiens GN=DES PE=1 SV=3	3.96	6.4389	10				cytoplasm		Cytoskeleton associated protein					
DNJC5_HUMAN	DnaJ homolog subfamily C member 5 OS=Homo sapiens GN=DNJC5 PE=1 SV=1	31.79	24.0672	29	H		M	Cell membrane	Y	Chaperone	J Biol Chem. 2008 Sep 5;283(36):25014-26. Epub 2008 Jul 2.				
DOC2A_HUMAN	Double C2-like domain-containing protein alpha	5.32	0	2				Cell membrane		Transporter, vesicular or membrane trafficking					
DPB1_HUMAN	HLA class II histocompatibility antigen, DP beta 1 chain OS=Homo sapiens GN=HLA-DPB1 PE=1 SV=1	11.04	5.172	2				Cell membrane		Receptor, cell surface molecules					
DTNA_HUMAN	Dystrobrevin alpha OS=Homo sapiens GN=DTNA PE=1 SV=2	6.82	0.5541	3				Cell membrane		Cell adhesion or ECM interaction					
DUS23_HUMAN	Dual specificity protein phosphatase 23 OS=Homo sapiens GN=DUSP23 PE=1 SV=1	5.67	1.0979	33				Cytoplasm, Nucleus		Phosphorylation or glycosylation					
ECE1_HUMAN	Endothelin-converting enzyme 1 OS=Homo sapiens GN=ECE1 PE=1 SV=2	32.28	13.5625	109	H			Cell membrane	Y	Protease or protein degradation	Biochem J. 1999 Jun 15;340 (Pt 3):649-56.				
EFR3A_HUMAN	Protein EFR3 homolog A OS=Homo sapiens GN=EFR3A PE=1 SV=2	14.77	<0.0001	5	H			Cell membrane		Receptor, cell surface molecules					
EGLN_HUMAN	Endoglin OS=Homo sapiens GN=ENG PE=1 SV=2	1.72	0.7792	43				Cell membrane		Cell adhesion or ECM interaction					
EPC1_HUMAN	Enhancer of polycomb homolog 1	2.68	2.8353	2				Nucleus		Transcription or translation regulator					
EPCR_HUMAN	Endothelial protein C receptor OS=Homo sapiens GN=PROCR PE=1 SV=1	60.17	27.9277	110	H			Cell surface, membrane		Receptor, cell surface molecules					
ERGI1_HUMAN	Endoplasmic reticulum-Golgi intermediate compartment protein 1 OS=Homo sapiens GN=ERGIC1 PE=1 SV=1	5.61	0.2579	2			H	ER membrane, Golgi		Transporter, vesicular or membrane trafficking					
ERGI3_HUMAN	Endoplasmic reticulum-Golgi intermediate compartment protein 3 OS=Homo sapiens GN=ERGIC3 PE=1 SV=1	33.32	19.5728	11	H		H	ER membrane, Golgi		Transporter, vesicular or membrane trafficking					
ERO1A_HUMAN	ERO1-like protein alpha OS=Homo sapiens GN=ERO1L PE=1 SV=2	1.52	0.3831	3				ER membrane		Metabolism					
ERP44_HUMAN	Endoplasmic reticulum resident protein 44 OS=Homo sapiens GN=ERP44 PE=1 SV=1	1.58	0.3023	8				ER		Metabolism					
F108B_HUMAN	Abhydrolase domain-containing protein FAM108B1 OS=Homo sapiens GN=FAM108B1 PE=2 SV=1	23.08	20.2579	6	H		H	Secreted		Others					
F162A_HUMAN	Protein FAM162A OS=Homo sapiens GN=FAM162A PE=1 SV=2	1.8	0.2438	2				Secreted		Others					
F16P2_HUMAN	Fructose-1,6-bisphosphatase isozyme 2 OS=Homo sapiens GN=FBP2 PE=1 SV=2	2.06	0.4652	2				Cytoplasm		Metabolism					
F1711_HUMAN	Protein FAM171A1 OS=Homo sapiens GN=FAM171A1 PE=1 SV=1	31.27	20.0437	2				Cell membrane		Others					
F176A_HUMAN	Protein FAM176A OS=Homo sapiens GN=FAM176A PE=2 SV=1	26.25	15.0818	5				ER membrane		Autophagy or apoptosis					
F184A_HUMAN	Protein FAM184A OS=Homo sapiens GN=FAM184A PE=2 SV=3	22.38	2.6149	3				Unknown		Others					
F193B_HUMAN	Protein FAM193B OS=Homo sapiens GN=FAM193B PE=2 SV=2	27.54	13.1992	8				Unknown		Others					

				Prior Screen															
				Reference #	18	12	13					Location		Known Palmitoylation		Function Class		References	
				Cells	Du-145	Jurkat	Neuro n												
				Method	ABE	17-ODYA	ABE												
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide															
FA38B_HUMAN	Protein FAM38B OS=Homo sapiens GN=FAM38B PE=2 SV=1	2.95	0.3269	29					Cell membrane			Receptor, cell surface molecules							
FA49A_HUMAN	FAM49A	3.59	0.9966	4					Unknown			Others							
FA49B_HUMAN	Protein FAM49B	21.54	10.4692	8		H	M		Unknown			Others							
FABP5_HUMAN	Fatty acid-binding protein, epidermal OS=Homo sapiens GN=FABP5 PE=1 SV=3	3.91	0.7628	17					Cytoplasm			Chaperone							
FAS_HUMAN	Fatty acid synthase OS=Homo sapiens GN=FASN PE=1 SV=3	2.27	0.4973	81	M				Cytoplasm			Metabolism							
FBLI1_HUMAN	Filamin-binding LIM protein 1 OS=Homo sapiens GN=FBLIM1 PE=1 SV=2	2.15	0.3062	7					Cytoplasm, cytoskeleton			Cytoskeleton associated protein							
FBLN3_HUMAN	EGF-containing fibulin-like extracellular matrix protein 1 OS=Homo sapiens GN=EFEMP1 PE=1 SV=2	1.84	0.101	4					Secreted			Cell adhesion or ECM interaction							
FIG4_HUMAN	Polyphosphoinositide phosphatase OS=Homo sapiens GN=FIG4 PE=1 SV=1	36.73	7.7691	3					Endosome membrane			Transporter, vesicular or membrane trafficking							
FLOT1_HUMAN	Flotillin-1 OS=Homo sapiens GN=FLOT1 PE=1 SV=3	4.58	1.5989	126	H	H			Cell membrane	Y		Scaffolding protein	J Biol Chem. 2002 Dec 13;277(50):48834-41. Epub 2002 Oct 4.						
FLOT2_HUMAN	Flotillin-2 OS=Homo sapiens GN=FLOT2 PE=1 SV=2	16.11	5.8293	5	H	H			Cell membrane	Y		Scaffolding protein	Biochem J. 2004 Mar 1;378(Pt 2):509-18.						
FND3A_HUMAN	Fibronectin type-III domain-containing protein 3A OS=Homo sapiens GN=FND3A PE=1 SV=4	2.16	1.5683	2			M		Golgi membrane			Cell adhesion or ECM interaction							
FPRP_HUMAN	Prostaglandin F2 receptor negative regulator OS=Homo sapiens GN=PTGFRN PE=1 SV=2	2.61	0.8622	28	H		H		Cell membrane			Receptor, cell surface molecules							
FRPD4_HUMAN	FERM and PDZ domain-containing protein 4 OS=Homo sapiens GN=FRMPD4 PE=1 SV=1	7.67	0.1434	2					Unknown			Others							
FUBP3_HUMAN	Far upstream element-binding protein 3	2.7	0.7062	4					Nucleus			Transcription or translation regulator							
FYN_HUMAN	Tyrosine-protein kinase Fyn OS=Homo sapiens GN=FYN PE=1 SV=3	4.33	0.4947	6			H		Cell membrane	Y		Phosphorylation or glycosylation	J Cell Biol. 1994 Jul;126(2):353-63.						
GALT1_HUMAN	Polypeptide N-acetylgalactosaminyltransferase 1 OS=Homo sapiens GN=GALNT1 PE=1 SV=1	14.89	3.1039	27			M		Golgi, secreted			Phosphorylation or glycosylation							
GAPR1_HUMAN	Golgi-associated plant pathogenesis-related protein 1 OS=Homo sapiens GN=GLIPR2 PE=1 SV=3	1.99	0.1509	9					Golgi			Others							
GIMA7_HUMAN	GTPase IMAP family member 7 OS=Homo sapiens GN=GIMAP7 PE=2 SV=1	34.39	<0.0001	2					Unknown			Others							
GLCE_HUMAN	D-glucuronyl C5-epimerase OS=Homo sapiens GN=GLCE PE=1 SV=3	10.57	2.3473	28					Golgi membrane			Metabolism							
GLT10_HUMAN	Polypeptide N-acetylgalactosaminyltransferase 10 OS=Homo sapiens GN=GALNT10 PE=1 SV=2	16.64	<0.0001	2					Golgi membrane			Phosphorylation or glycosylation							
GLU2B_HUMAN	Glucosidase 2 subunit beta OS=Homo sapiens GN=PRKCSH PE=1 SV=2	1.82	0.2591	2			M		ER membrane			Metabolism							
GNA11_HUMAN	Guanine nucleotide-binding protein subunit alpha-11 OS=Homo sapiens GN=GNA11 PE=1 SV=2	31.71	16.3218	105	H	H			Cell membrane	Y		G protein associated regulator	J Biol Chem. 2001 Sep 21;276(38):35883-90. Epub 2001 Jul 18.						
GNA12_HUMAN	Guanine nucleotide-binding protein subunit alpha-12 OS=Homo sapiens GN=GNA12 PE=1 SV=4	4.42	1.2641	16	H				Cell membrane	Y		G protein associated regulator	J Biol Chem. 2002 Sep 6;277(36):32409-12. Epub 2002 Jul 12.						
GNA13_HUMAN	Guanine nucleotide-binding protein subunit alpha-13 OS=Homo sapiens GN=GNA13 PE=1 SV=2	23.54	13.1964	44	H	H			Cell membrane	Y		G protein associated regulator	J Biol Chem. 2000 May 19;275(20):14992-9.						
GNA14_HUMAN	Guanine nucleotide-binding protein subunit alpha-14 OS=Homo sapiens GN=GNA14 PE=2 SV=1	25.49	12.5275	38					Cell membrane	Y		G protein associated regulator	J Biol Chem. 2007 Aug 31;282(35):25199-212. Epub 2007 Jul 9.						
GNA15_HUMAN	Guanine nucleotide-binding protein subunit alpha-15 OS=Homo sapiens GN=GNA15 PE=2 SV=2	7.55	3.1512	2			H		Cell membrane			G protein associated regulator							

				Prior Screen															
				Reference #	18	12	13					Location		Known Palmitoylation		Function Class		References	
				Cells	Du-145	Jurkat	Neuro n												
				Method	ABE	17-ODYA	ABE												
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide															
GNAI2_HUMAN	Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Homo sapiens GN=GNAI2 PE=1 SV=3	4.99	2.857	62	H	H		Cytoplasm, cell membrane			G protein associated regulator								
GNAI3_HUMAN	Guanine nucleotide-binding protein G(k) subunit alpha OS=Homo sapiens GN=GNAI3 PE=1 SV=3	5.84	4.5352	21	H	H		Cytoplasm, cell membrane			G protein associated regulator								
GNAO_HUMAN	Guanine nucleotide-binding protein G(o) subunit alpha	3.79	0.8861	5	M	H		Cytoplasm, cell membrane	Y		G protein associated regulator	Int J Biochem Cell Biol. 2009 Jul;41(7):1495-501. Epub 2008 Dec 25.							
GNAQ_HUMAN	Guanine nucleotide-binding protein G(q) subunit alpha OS=Homo sapiens GN=GNAQ PE=1 SV=4	27.83	13.9933	74	H	H		Cytoplasm, cell membrane	Y		G protein associated regulator	J Biol Chem. 2000 Jan 14;275(2):1327-36.							
GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short OS=Homo sapiens GN=GNAS PE=1 SV=1	6.75	5.0749	20	H	H		Cytoplasm, cell membrane	Y		G protein associated regulator	Proc Natl Acad Sci U S A. 1997 Jun 10;94(12):6116-20.							
GNPAT_HUMAN	Dihydroxyacetone phosphate acyltransferase OS=Homo sapiens GN=GNPAT PE=1 SV=1	1.82	0.4182	3	M	M		Cell membrane			Metabolism								
GOGA7_HUMAN	Golgin subfamily A member 7 OS=Homo sapiens GN=GOLGA7 PE=1 SV=2	40.64	23.8972	21	H	H		Golgi membrane			Transporter, vesicular or membrane trafficking								
GOLI4_HUMAN	Golgi integral membrane protein 4 OS=Homo sapiens GN=GOLIM4 PE=1 SV=1	7.18	1.5821	4	H			Golgi, cell membrane			Transporter, vesicular or membrane trafficking								
GPX1_HUMAN	Glutathione peroxidase 1 OS=Homo sapiens GN=GPX1 PE=1 SV=4	7.95	1.0962	7			M	Cytoplasm			Metabolism								
GPX4_HUMAN	Phospholipid hydroperoxide glutathione peroxidase, mitochondrial OS=Homo sapiens GN=GPX4 PE=1 SV=3	4.29	<0.0001	2			M	Cytoplasm, mitochondrion			Metabolism								
GPX8_HUMAN	Probable glutathione peroxidase 8 OS=Homo sapiens GN=GPX8 PE=1 SV=2	5.73	0.5386	13				Cell membrane			Metabolism								
GRHPR_HUMAN	Glyoxylate reductase/hydroxypyruvate reductase OS=Homo sapiens GN=GRHPR PE=1 SV=1	2.45	1.3448	2				Unknown			Metabolism								
GRIK2_HUMAN	Glutamate receptor, ionotropic kainate 2 OS=Homo sapiens GN=GRIK2 PE=1 SV=1	5.9	3.9837	2				Cell membrane			Receptor, cell surface molecules								
GROA_HUMAN	Growth-regulated alpha protein OS=Homo sapiens GN=CXCL1 PE=1 SV=1	112.99	60.642	2				Secreted			Cell adhesion or ECM interaction								
GSLG1_HUMAN	Golgi apparatus protein 1 OS=Homo sapiens GN=GLG1 PE=1 SV=2	19.69	10.1229	28		M	H	Golgi membrane			Cell adhesion or ECM interaction								
HDAC1_HUMAN	Histone deacetylase 1 OS=Homo sapiens GN=HDAC1 PE=1 SV=1	1.69	0.86	2				Nucleus			Transcription or translation regulator								
HLA_G_HUMAN	HLA class I histocompatibility antigen, alpha chain G OS=Homo sapiens GN=HLA-G PE=1 SV=1	8.75	15.99	5.6154				Cell surface, membrane			Receptor, cell surface molecules								
ICAM2_HUMAN	Intercellular adhesion molecule 2 OS=Homo sapiens GN=ICAM2 PE=1 SV=2	17.22	0.7257	22				Cell membrane			Cell adhesion or ECM interaction								
IF2G_HUMAN	Eukaryotic translation initiation factor 2 subunit 3 OS=Homo sapiens GN=EIF2S3 PE=1 SV=3	1.83	0.2895	8				Cytoplasm			Transcription or translation regulator								
IFM1_HUMAN	Interferon-induced transmembrane protein 1	14.18	6.1603	8				Cell membrane			Cell adhesion or ECM interaction								
IFM3_HUMAN	Interferon-induced transmembrane protein 3 OS=Homo sapiens GN=IFITM3 PE=1 SV=2	14.07	6.0265	40				Cell membrane	Y		Cell adhesion or ECM interaction	Nat Chem Biol. 2010 Aug;6(8):610-4. Epub 2010 Jul 4.							
IL6RB_HUMAN	Interleukin-6 receptor subunit beta OS=Homo sapiens GN=IL6ST PE=1 SV=2	5.15	0.7581	2	M			Cell membrane, secreted			Receptor, cell surface molecules								
INF2_HUMAN	Inverted formin-2 OS=Homo sapiens GN=INF2 PE=1 SV=2	2.21	1.836	3				Cytoplasm			Cytoskeleton associated protein								
ITA3_HUMAN	Integrin alpha-3 OS=Homo sapiens GN=ITGA3 PE=1 SV=4	24.81	5.8207	20	M			Cell membrane			Receptor, cell surface molecules								
ITA5_HUMAN	Integrin alpha-5 OS=Homo sapiens GN=ITGA5 PE=1 SV=2	1.65	0.1706	8				Cell membrane			Receptor, cell surface molecules								
ITA6_HUMAN	Integrin alpha-6 OS=Homo sapiens GN=ITGA6 PE=1 SV=4	34.88	13.0605	53	M			Cell membrane			Receptor, cell surface molecules								
ITM2B_HUMAN	Integral membrane protein 2B OS=Homo sapiens GN=ITM2B	20.02	<0.0001	2	M			Cell membrane			Protease or protein degradation								

				Prior Screen							
				Reference #	18	12	13				
				Cells	Du-145	Jurkat	Neuro n				
				Method	ABE	17-ODYA	ABE				
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References
	PE=1 SV=1										
JAK1_HUMAN	Tyrosine-protein kinase JAK1 OS=Homo sapiens GN=JAK1 PE=1 SV=2	4.89	0.9315	5				Cell membrane		Phosphorylation or glycosylation	
JAM3_HUMAN	Junctional adhesion molecule C OS=Homo sapiens GN=JAM3 PE=1 SV=1	29.63	4.1189	17			M	Cell membrane		Cell adhesion or ECM interaction	
K1C40_HUMAN	Keratin, type I cytoskeletal 40 OS=Homo sapiens GN=KRT40 PE=1 SV=2	14.33	16.8763	4				Cytoplasm		Cytoskeleton associated protein	
K2013_HUMAN	Uncharacterized protein KIAA2013 OS=Homo sapiens GN=KIAA2013 PE=2 SV=1	51.7	35.8231	6				Unknown		Others	
KDIS_HUMAN	Kinase D-interacting substrate of 220 kDa	7.67	11.3627	3				Cell membrane		Scaffolding protein	
KIF3B_HUMAN	Kinesin-like protein KIF3B OS=Homo sapiens GN=KIF3B PE=1 SV=1	67.66	45.4555	9				Cytoplasm		Cytoskeleton associated protein	
LAMA4_HUMAN	Laminin subunit alpha-4 OS=Homo sapiens GN=LAMA4 PE=1 SV=4	22.38	2.6149	2				Secreted		Cell adhesion or ECM interaction	
LAP2_HUMAN	Protein LAP2 OS=Homo sapiens GN=ERBB2IP PE=1 SV=2	9.15	1.3026	4	H	H		Cell membrane	Y	Receptor, cell surface molecules	Genes Cells. 2008 Jul;13(7):691-701. Epub 2008 May 21.
LAP4A_HUMAN	Lysosomal-associated transmembrane protein 4A OS=Homo sapiens GN=LAPTM4A PE=1 SV=1	11.42	1.4112	4	H			Lysosome		Transporter, vesicular or membrane trafficking	
LAPM5_HUMAN	Lysosomal-associated transmembrane protein 5 OS=Homo sapiens GN=LAPTM5 PE=1 SV=1	11.92	6.9478	2				Lysosome		Others	
LCAP_HUMAN	Leucyl-cystinyl aminopeptidase OS=Homo sapiens GN=LNPEP PE=1 SV=3	15.68	5.3075	26	H	H		Cell membrane		Protease or protein degradation	
LHPL2_HUMAN	Lipoma HMGIC fusion partner-like 2 protein OS=Homo sapiens GN=LHFPL2 PE=2 SV=2	25.52	6.8352	3				Cell membrane		Others	
LMBL3_HUMAN	Lethal(3)malignant brain tumor-like protein 3 OS=Homo sapiens GN=L3MBTL3 PE=1 SV=2	42.55	23.1112	2				Nucleus		Transcription or translation regulator	
LRC32_HUMAN	Leucine-rich repeat-containing protein 32 OS=Homo sapiens GN=LRRRC32 PE=1 SV=1	26.8	10.394	32				Cell membrane		Others	
LRC47_HUMAN	Leucine-rich repeat-containing protein 47 OS=Homo sapiens GN=LRRRC47 PE=1 SV=1	3.06	2.6149	5				Unknown		Others	
LRRC1_HUMAN	Leucine-rich repeat-containing protein 1 OS=Homo sapiens GN=LRRC1 PE=1 SV=1	20.68	7.0865	4	H	M		Cell membrane		Scaffolding protein	
LYRIC_HUMAN	Protein LYRIC OS=Homo sapiens GN=MTDH PE=1 SV=2	35.97	17.0441	79	H	H	H	Cell membrane		Cell adhesion or ECM interaction	
LYVE1_HUMAN	Lymphatic vessel endothelial hyaluronate receptor 1 OS=Homo sapiens GN=LYVE1 PE=1 SV=2	13.04	0.0868	2				Cell membrane		Transporter, vesicular or membrane trafficking	
MA1B1_HUMAN	Endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase OS=Homo sapiens GN=MAN1B1 PE=1 SV=2	17.9	5.0509	21				ER membrane		Phosphorylation or glycosylation	
MALD1_HUMAN	Putative MARVEL domain-containing protein 1 OS=Homo sapiens GN=MARVELD1 PE=5 SV=1	13.17	1.4492	5				Cell membrane		Cytoskeleton associated protein	
MAML3_HUMAN	Mastermind-like protein 3	57.3	34.88	2				Nucleus		Transcription or translation regulator	
MAT2B_HUMAN	Methionine adenosyltransferase 2 subunit beta OS=Homo sapiens GN=MAT2B PE=1 SV=1	5.08	1.9874	2				Unknown		Metabolism	
MBL2_HUMAN	Metallo-beta-lactamase domain-containing protein 2 OS=Homo sapiens GN=MBL2 PE=1 SV=3	21.65	8.3129	9				Unknown		Others	
MCM6_HUMAN	DNA replication licensing factor MCM6 OS=Homo sapiens GN=MCM6 PE=1 SV=1	2.89	0.3968	7				Nucleus		Transcription or translation regulator	
MCRS1_HUMAN	Microspherule protein 1 OS=Homo sapiens GN=MCRS1 PE=1 SV=1	3	1.8889	2				Nucleus		Transcription or translation regulator	
MDC1_HUMAN	Mediator of DNA damage checkpoint protein 1	4.21	2.4197	2				Nucleus		Scaffolding protein	

				Prior Screen											
				Reference #	18	12	13								
				Cells	Du-145	Jurkat	Neuron								
				Method	ABE	17-ODYA	ABE								
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References				
MENTO_HUMAN	MLN64 N-terminal domain homolog OS=Homo sapiens GN=STARD3NL PE=1 SV=1	7.63	4.6286	2	H			Endosome membrane		Others					
MFS10_HUMAN	Major facilitator superfamily domain-containing protein 10 OS=Homo sapiens GN=MFS10 PE=2 SV=1	1.83	0.126	3				Cell membrane		Others					
MGST3_HUMAN	Microsomal glutathione S-transferase 3 OS=Homo sapiens GN=MGST3 PE=1 SV=1	1.6	0.0846	8				ER membrane		Metabolism					
MINT_HUMAN	Msx2-interacting protein OS=Homo sapiens GN=SPEN PE=1 SV=1	20.35	0.6328	2				Nucleus		Scaffolding protein					
MIRO2_HUMAN	Mitochondrial Rho GTPase 2 OS=Homo sapiens GN=RHOT2 PE=1 SV=2	22.78	1.2429	3				Mitochondrion		G protein associated regulator					
MLEC_HUMAN	Malectin OS=Homo sapiens GN=MLEC PE=1 SV=1	11.92	6.9478	17				ER membrane		Phosphorylation or glycosylation					
MMP14_HUMAN	Matrix metalloproteinase-14 OS=Homo sapiens GN=MMP14 PE=1 SV=2	5.07	1.9774	11	H			Cell membrane	Y	Cell adhesion or ECM interaction	FASEB J. 2005 Aug;19(10):1326-8. Epub 2005 Jun 9.				
MOFA1_HUMAN	MORF4 family-associated protein 1	3.64	3.5343	2				Cytoplasm, Nucleus		Others					
MPRD_HUMAN	Cation-dependent mannose-6-phosphate receptor OS=Homo sapiens GN=M6PR PE=1 SV=1	32.29	26.7646	16	M			Lysosome membrane	Y	Transporter, vesicular or membrane trafficking	J Cell Biol. 1996 Feb;132(4):577-84.				
MREG_HUMAN	Melanoregulin OS=Homo sapiens GN=MREG PE=1 SV=1	22.37	10.7142	2	M	M		Cell membrane		Others					
MUC18_HUMAN	Cell surface glycoprotein MUC18 OS=Homo sapiens GN=MCAM PE=1 SV=2	28.92	13.6417	511	H		H	Cell membrane		Cell adhesion or ECM interaction					
MYCT1_HUMAN	Myc target protein 1 OS=Homo sapiens GN=MYCT1 PE=2 SV=1	12.69	4.5881	5				Nucleus		Transcription or translation regulator					
MYOF_HUMAN	Myoferlin OS=Homo sapiens GN=MYOF PE=1 SV=1	5.42	2.4383	139				Cell membrane		Transporter, vesicular or membrane trafficking					
MYST4_HUMAN	Histone acetyltransferase MYST4	3.26	0.5942	2				Nucleus		Transcription or translation regulator					
NAV3_HUMAN	Neuron navigator 3 OS=Homo sapiens GN=NAV3 PE=1 SV=2	3.66	2.0209	2				Nucleus		Others					
NCEH1_HUMAN	Neutral cholesterol ester hydrolase 1 OS=Homo sapiens GN=NCEH1 PE=1 SV=3	3.14	0.4523	7				Cell membrane		Metabolism					
NICA_HUMAN	Nicastrin OS=Homo sapiens GN=NCSTN PE=1 SV=2	4.68	1.8155	3	M			Cell membrane	Y	Protease or protein degradation	J Biol Chem. 2009 Jan 16;284(3):1373-84. Epub 2008 Nov 20.				
NOS3_HUMAN	Nitric oxide synthase, endothelial OS=Homo sapiens GN=NOS3 PE=1 SV=3	4.9	0.3951	6				Cell membrane	Y	Metabolism	Biochemistry. 1995 Sep 26;34(38):12333-40.				
NRCAM_HUMAN	Neuronal cell adhesion molecule OS=Homo sapiens GN=NRCAM PE=1 SV=3	9.19	<0.0001	2				Cell membrane		Cell adhesion or ECM interaction					
NRP1_HUMAN	Neuropilin-1 OS=Homo sapiens GN=NRP1 PE=1 SV=3	22.29	8.6618	39	H		M	Cell membrane		Receptor, cell surface molecules					
NRP2_HUMAN	Neuropilin-2 OS=Homo sapiens GN=NRP2 PE=1 SV=2	5.8	2.7944	5				Cell membrane		Receptor, cell surface molecules					
NSUN2_HUMAN	tRNA (cytosine-5)-methyltransferase NSUN2 OS=Homo sapiens GN=NSUN2 PE=1 SV=2	2.64	0.9908	6				Nucleus		Transcription or translation regulator					
NUMA1_HUMAN	Nuclear mitotic apparatus protein 1 OS=Homo sapiens GN=NUMA1 PE=1 SV=2	58.52	3.9817	4				Nucleus		Scaffolding protein					
ODO2_HUMAN	Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial OS=Homo sapiens GN=DLST PE=1 SV=3	1.96	0.565	117				Mitochondrion		Metabolism					
ODP2_HUMAN	DLAT; Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	7.78	2.2783	8				Mitochondrial matrix		Metabolism					
ODPX_HUMAN	Pyruvate dehydrogenase protein X component, mitochondrial OS=Homo sapiens GN=PDHX PE=1 SV=3	11.08	2.8249	5				Mitochondrial matrix		Metabolism					
OXSM_HUMAN	3-oxoacyl-[acyl-carrier-protein] synthase, mitochondrial OS=Homo sapiens GN=OXSM PE=1 SV=1	5.85	0.6459	2			M	Mitochondrion		Metabolism					

				Prior Screen							
				Reference #	18	12	13				
				Cells	Du-145	Jurkat	Neuro n				
				Method	ABE	17-ODYA	ABE				
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References
P4K2A_HUMAN	Phosphatidylinositol 4-kinase type 2-alpha OS=Homo sapiens GN=P4K2A PE=1 SV=1	26.72	9.1088	17	H	H		Cytoplasm, cell membrane		Metabolism	
PANK4_HUMAN	Pantothenate kinase 4 OS=Homo sapiens GN=PANK4 PE=1 SV=1	11.04	5.172	2				Cytoplasm		Metabolism	
PBIP1_HUMAN	Pre-B-cell leukemia transcription factor-interacting protein 1 OS=Homo sapiens GN=PBIP1 PE=1 SV=1	1.66	1.1599	3				Cytoplasm, Nucleus		Transcription or translation regulator	
PCD17_HUMAN	Protocadherin-17 OS=Homo sapiens GN=PCDH17 PE=2 SV=2	18.08	8.2532	2			M	Cell membrane		Cell adhesion or ECM interaction	
PCF11_HUMAN	Pre-mRNA cleavage complex 2 protein Pcf11 OS=Homo sapiens GN=PCF11 PE=1 SV=3	21.12	8.5946	4				Nucleus		Transcription or translation regulator	
PDLI1_HUMAN	PDZ and LIM domain protein 1 OS=Homo sapiens GN=PDLIM1 PE=1 SV=4	5.62	1.2381	17				Cytoplasm		Cytoskeleton associated protein	
PECA1_HUMAN	Platelet endothelial cell adhesion molecule OS=Homo sapiens GN=PECAM1 PE=1 SV=1	18.84	4.6203	124				Cell membrane	Y	Cell adhesion or ECM interaction	Thromb Haemost. 2006 Dec;96(6):756-66.
PECI_HUMAN	Peroxisomal 3,2-trans-enoyl-CoA isomerase OS=Homo sapiens GN=PECI PE=1 SV=4	5.08	2.8347	3				Mitochondrion		Metabolism	
PERI_HUMAN	Peripherin OS=Homo sapiens GN=PRPH PE=1 SV=2	3.7	6.1702	11				Cytoplasm		Cytoskeleton associated protein	
PLCB4_HUMAN	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta-4 OS=Homo sapiens GN=PLCB4 PE=1 SV=3	2.86	0.6087	3				Unkown		Metabolism	
PLD6_HUMAN	Phospholipase D6 OS=Homo sapiens GN=PLD6 PE=2 SV=1	2.89	0.8562	2				Mitochondrion		Metabolism	
PLEC_HUMAN	Plectin OS=Homo sapiens GN=PLEC PE=1 SV=3	10.77	9.3584	5				Cytoplasm		Cytoskeleton associated protein	
PLP2_HUMAN	Proteolipid protein 2 OS=Homo sapiens GN=PLP2 PE=1 SV=1	4.5	6.9994	6	M			Cell membrane		Others	
PLS1_HUMAN	Phospholipid scramblase 1 OS=Homo sapiens GN=PLSCR1 PE=1 SV=1	16.43	7.3806	16	H			Cell membrane	Y	Transporter, vesicular or membrane trafficking	Biochemistry. 2003 Feb 11;42(5):1227-33.
PLS3_HUMAN	Phospholipid scramblase 3 OS=Homo sapiens GN=PLSCR3 PE=1 SV=2	2.33	0.3753	6	H			Cell membrane	Y	Transporter, vesicular or membrane trafficking	Mol Cell Proteomics. 2011 Oct;10(10):M110.006007 Epub 2011 Jul 23.
PLS4_HUMAN	Phospholipid scramblase 4 OS=Homo sapiens GN=PLSCR4 PE=1 SV=2	29.39	10.6352	12				Cell membrane		Transporter, vesicular or membrane trafficking	
PLXB2_HUMAN	Plexin-B2 OS=Homo sapiens GN=PLXNB2 PE=1 SV=3	9.09	1.8488	3			H	Cell membrane		Receptor, cell surface molecules	
PODXL_HUMAN	Podocalyxin OS=Homo sapiens GN=PODXL PE=1 SV=2	9.47	16.9328	11			M	Cell membrane		Cell adhesion or ECM interaction	
PPDE1_HUMAN	PPPDE peptidase domain-containing protein 1 OS=Homo sapiens GN=PPPDE1 PE=2 SV=1	11.3	<0.0001	7				Unknown		Others	
PPOX_HUMAN	Protoporphyrinogen oxidase OS=Homo sapiens GN=PPOX PE=1 SV=1	33.38	2.6084	6				Mitochondrion		Metabolism	
PRAF2_HUMAN	PRA1 family protein 2 OS=Homo sapiens GN=PRAF2 PE=1 SV=1	2.68	3.8262	19		H	M	Endosome membrane		Transporter, vesicular or membrane trafficking	
PRDX5_HUMAN	Peroxisiredoxin-5, mitochondrial OS=Homo sapiens GN=PRDX5 PE=1 SV=3	1.53	0.3337	41			M	Cytoplasm		Metabolism	
PRDX6_HUMAN	Peroxisiredoxin-6 OS=Homo sapiens GN=PRDX6 PE=1 SV=3	3.67	1.0972	64		H		Cytoplasm		Metabolism	
PSMD1_HUMAN	26S proteasome non-ATPase regulatory subunit 1 OS=Homo sapiens GN=PSMD1 PE=1 SV=2	3.86	1.3752	13			M	Unknown		Protease or protein degradation	
PTH2_HUMAN	Peptidyl-tRNA hydrolase 2, mitochondrial OS=Homo sapiens GN=PTRH2 PE=1 SV=1	3.98	0.3805	8	H	H		Mitochondrion		Metabolism	
PTTG_HUMAN	Pituitary tumor-transforming gene 1 protein-interacting protein OS=Homo sapiens GN=PTTG1IP PE=1 SV=1	5.85	0.4905	14	H	H		Unknown		Others	
PVR_HUMAN	Poliovirus receptor OS=Homo sapiens GN=PVR PE=1 SV=2	24.58	10.4757	54	H			Cell membrane, secreted		Receptor, cell surface molecules	
PVRL2_HUMAN	Poliovirus receptor-related protein 2 OS=Homo sapiens GN=PVRL2 PE=1 SV=1	12.26	4.7683	11	H			Cell membrane		Cell adhesion or ECM interaction	

				Prior Screen															
				Reference #	18	12	13					Location		Known Palmitoylation		Function Class		References	
				Cells	Du-145	Jurkat	Neuron												
				Method	ABE	17-ODYA	ABE												
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide															
RAB18_HUMAN	Ras-related protein Rab-18 OS=Homo sapiens GN=RAB18 PE=1 SV=1	3.28	0.3919	3				Cell membrane			G protein associated regulator								
RAB8B_HUMAN	Ras-related protein Rab-8B OS=Homo sapiens GN=RAB8B PE=1 SV=2	1.88	1.3047	11				Cell membrane			G protein associated regulator								
RAI3_HUMAN	Retinoic acid-induced protein 3 OS=Homo sapiens GN=GPRC5A PE=1 SV=2	19.62	7.7167	6	H			Cell membrane			G protein associated regulator								
RALA_HUMAN	Ras-related protein Ral-A OS=Homo sapiens GN=RALA PE=1 SV=1	20.52	8.2615	40	H		H	Cell membrane			G protein associated regulator								
RALB_HUMAN	Ras-related protein Ral-B OS=Homo sapiens GN=RALB PE=1 SV=1	20.58	7.1147	29	H		H	Cell membrane			G protein associated regulator								
RAP1B_HUMAN	Ras-related protein Rap-1b OS=Homo sapiens GN=RAP1B PE=1 SV=1	4.09	3.8084	11			M	Cell membrane			G protein associated regulator								
RAP2A_HUMAN	Ras-related protein Rap-2a OS=Homo sapiens GN=RAP2A PE=1 SV=1	18.68	5.1397	42	H		H	Cell membrane	Y		G protein associated regulator	Biochem Biophys Res Commun. 2009 Jan 23;378(4):732-7. Epub 2008 Dec 4.							
RAP2B_HUMAN	Ras-related protein Rap-2b OS=Homo sapiens GN=RAP2B PE=1 SV=1	18.88	5.6659	62	H		H	Cell membrane	Y		G protein associated regulator	Biochem Biophys Res Commun. 2009 Jan 23;378(4):732-7. Epub 2008 Dec 4.							
RAP2C_HUMAN	Ras-related protein Rap-2c OS=Homo sapiens GN=RAP2C PE=1 SV=1	21.18	10.3544	48	H		H	Cell membrane	Y		G protein associated regulator	Biochem Biophys Res Commun. 2009 Jan 23;378(4):732-7. Epub 2008 Dec 4.							
RASH_HUMAN	GTPase HRas OS=Homo sapiens GN=HRAS PE=1 SV=1	22.51	9.9055	32	H		H	Cell membrane	Y		G protein associated regulator	Cell. 1989 Jun 30;57(7):1167-77.							
RASK_HUMAN	GTPase KRas OS=Homo sapiens GN=KRAS PE=1 SV=1	18.03	6.7606	17	H		H	Cell membrane	Y		G protein associated regulator	Cell. 1989 Jun 30;57(7):1167-77.							
RASN_HUMAN	GTPase NRas OS=Homo sapiens GN=NRAS PE=1 SV=1	23.54	9.4841	37	H			Cell membrane	Y		G protein associated regulator	J Biol Chem. 1996 Sep 20;271(38):23269-76.							
REEP5_HUMAN	Receptor expression-enhancing protein 5 OS=Homo sapiens GN=REEP5 PE=1 SV=3	13	3.3802	42		M		Cell membrane		H	Others								
RELL1_HUMAN	RELT-like protein 1 OS=Homo sapiens GN=RELL1 PE=1 SV=1	19.38	10.5021	19	H			Cell membrane			Others								
RGPD1_HUMAN	RANBP2-like and GRIP domain-containing protein 1/2; RGPD1	10.47	4.9376	2				Unknown			Others								
RGS19_HUMAN	Regulator of G-protein signaling 19 OS=Homo sapiens GN=RGS19 PE=1 SV=1	2.43	<0.0001	3			M	Cell membrane	Y		G protein associated regulator	Proc Natl Acad Sci U S A. 1996 Dec 24;93(26):15203-8.							
RHOB_HUMAN	Rho-related GTP-binding protein RhoB OS=Homo sapiens GN=RHOB PE=1 SV=1	5.35	3.8041	7	H			Cell membrane	Y		G protein associated regulator	J Biol Chem. 1992 Oct 5;267(28):20033-8.							
RHOJ_HUMAN	Rho-related GTP-binding protein RhoJ OS=Homo sapiens GN=RHOJ PE=1 SV=1	10.36	2.0316	5				Cell membrane			G protein associated regulator								
RL15_HUMAN	60S ribosomal protein L15 OS=Homo sapiens GN=RPL15 PE=1 SV=2	1.89	0.1814	3			M	Cytoplasm			Transcription or translation regulator								
RL35_HUMAN	60S ribosomal protein L35 OS=Homo sapiens GN=RPL35 PE=1 SV=2	1.57	0.1709	7				Cytoplasm			Transcription or translation regulator								
RL5_HUMAN	60S ribosomal protein L5	1.69	0.4839	2	M	M	M	Cytoplasm			Transcription or translation regulator								
RMP_HUMAN	Unconventional prefoldin RPB5 interactor OS=Homo sapiens GN=RMP PE=1 SV=3	16.14	1.4152	2			M	Nucleus			Scaffolding protein								
RPN2_HUMAN	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 OS=Homo sapiens GN=RPN2 PE=1 SV=3	1.72	0.0223	17	M		M	ER membrane			Phosphorylation or glycosylation								
RRAS_HUMAN	Ras-related protein R-Ras OS=Homo sapiens GN=RRAS PE=1 SV=1	23.67	6.1036	73	H	H	H	Cell membrane	Y		G protein associated regulator	J Cell Sci. 2003 Sep 15;116(Pt 18):3729-38. Epub 2003 Jul 30.							
RRAS2_HUMAN	Ras-related protein R-Ras2 OS=Homo sapiens GN=RRAS2 PE=1 SV=1	24.19	9.7482	69	H		H	Cell membrane			G protein associated regulator								
RS11_HUMAN	40S ribosomal protein S11 OS=Homo sapiens GN=RPS11 PE=1 SV=3	2.84	0.9836	18	M			Cytoplasm			Transcription or translation regulator								
RS15_HUMAN	40S ribosomal protein S15 OS=Homo sapiens GN=RPS15 PE=1 SV=2	2.14	2.5207	8				Cytoplasm			Transcription or translation regulator								
RS24_HUMAN	40S ribosomal protein S24 OS=Homo sapiens GN=RPS24 PE=1 SV=1	1.78	0.0975	17			M	Cytoplasm			Transcription or translation regulator								

				Prior Screen													
				Reference #	18	12	13					Location		Function Class		References	
				Cells	Du-145	Jurkat	Neuro n										
				Method	ABE	17-ODYA	ABE										
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Known Palmitoylation									
RS27A_HUMAN	Ubiquitin-40S ribosomal protein S27a OS=Homo sapiens GN=RPS27A PE=1 SV=2	2.54	0.095	83	M				Cytoplasm		Transcription or translation regulator						
RTN1_HUMAN	Reticulon-1 OS=Homo sapiens GN=RTN1 PE=1 SV=1	2.41	0.17	5					ER membrane		Transporter, vesicular or membrane trafficking						
RTN3_HUMAN	Reticulon-3 OS=Homo sapiens GN=RTN3 PE=1 SV=2	2.69	0.1604	19			M		ER membrane		Transporter, vesicular or membrane trafficking						
RTN4_HUMAN	Reticulon-4 OS=Homo sapiens GN=RTN4 PE=1 SV=2	6.18	1.2065	66					ER membrane		Transporter, vesicular or membrane trafficking						
S1PR1_HUMAN	Sphingosine 1-phosphate receptor 1 OS=Homo sapiens GN=S1PR1 PE=1 SV=2	4.66	0.1614	2				Y	Cell membrane		Receptor, cell surface molecules	Genes Cells. 2009 Aug;14(8):911-23. Epub 2009 Jul 10.					
S22A8_HUMAN	Solute carrier family 22 member 8	5.35	0.8288	2					Cell membrane		Transporter, vesicular or membrane trafficking						
S61A1_HUMAN	Protein transport protein Sec61 subunit alpha isoform 1 OS=Homo sapiens GN=SEC61A1 PE=1 SV=2	3.02	1.142	2					ER membrane		Transporter, vesicular or membrane trafficking						
SAE2_HUMAN	SUMO-activating enzyme subunit 2 OS=Homo sapiens GN=UBA2 PE=1 SV=2	1.79	0.3398	15					Nucleus		Others						
SC11A_HUMAN	Signal peptidase complex catalytic subunit SEC11A OS=Homo sapiens GN=SEC11A PE=1 SV=1	2.13	0.1929	7					ER membrane		Protease or protein degradation						
SCAM1_HUMAN	Secretory carrier-associated membrane protein 1 OS=Homo sapiens GN=SCAMP1 PE=1 SV=2	23.61	8.3367	7	H	H	H		Golgi		Transporter, vesicular or membrane trafficking						
SCAM2_HUMAN	Secretory carrier-associated membrane protein 2 OS=Homo sapiens GN=SCAMP2 PE=1 SV=2	18.03	2.132	9	H	H	M		Golgi		Transporter, vesicular or membrane trafficking						
SCAM3_HUMAN	Secretory carrier-associated membrane protein 3 OS=Homo sapiens GN=SCAMP3 PE=1 SV=3	15.67	4.5005	39	H	H	H		Golgi		Transporter, vesicular or membrane trafficking						
SCRB1_HUMAN	Scavenger receptor class B member 1 OS=Homo sapiens GN=SCRAB1 PE=1 SV=1	21.73	7.9393	15	H				Cell membrane	Y	Receptor, cell surface molecules	J Biol Chem. 1996 Sep 13;271(37):22315-20.					
SCRB2_HUMAN	Lysosome membrane protein 2 OS=Homo sapiens GN=SCRAB2 PE=1 SV=2	17.12	2.9779	72	H		H		Lysosome		Receptor, cell surface molecules						
SCRIB_HUMAN	Protein scribble homolog OS=Homo sapiens GN=SCRIB PE=1 SV=4	14.06	4.6675	13	H	H	M		Cell membrane		Scaffolding protein						
SELO_HUMAN	Selenoprotein O OS=Homo sapiens GN=SELO PE=2 SV=3	2.21	<0.0001	2					Unknown		Others						
SELT_HUMAN	Selenoprotein T OS=Homo sapiens GN=SELT PE=2 SV=2	5.57	0.9737	7					Unknown		Others						
SEP15_HUMAN	15 kDa selenoprotein OS=Homo sapiens GN=SEP15 PE=1 SV=3	4.67	1.2882	3					ER membrane		Others						
SERC1_HUMAN	Serine incorporator 1 OS=Homo sapiens GN=SERINC1 PE=1 SV=1	9.5	<0.0001	4	M				ER membrane		Metabolism						
SERPH_HUMAN	Serpin H1	1.64	0.0759	2			M		ER membrane		Chaperone						
SFPQ_HUMAN	Splicing factor, proline- and glutamine-rich OS=Homo sapiens GN=SFPQ PE=1 SV=2	1.5	0.387	9			M		Nucleus		Transcription or translation regulator						
SLFN5_HUMAN	Schlafen family member 5 OS=Homo sapiens GN=SLFN5 PE=1 SV=1	16.68	2.0632	2					Unknown		Others						
SNP23_HUMAN	Synaptosomal-associated protein 23 OS=Homo sapiens GN=SNAP23 PE=1 SV=1	18.4	7.4899	23	H	H			Cell membrane	Y	Transporter, vesicular or membrane trafficking	Biochem Biophys Res Commun. 1999 May 10;258(2):407-10.					
SORC2_HUMAN	VPS10 domain-containing receptor SorCS2 OS=Homo sapiens GN=SORCS2 PE=1 SV=3	20.35	0.6328	2					Cell membrane		Others						
STML3_HUMAN	Stomatin-like protein 3	5.21	0.9904	3					Cell membrane		Others						
STOM_HUMAN	Erythrocyte band 7 integral membrane protein OS=Homo sapiens GN=STOM PE=1 SV=3	16.02	3.8221	148	H	H			Cell membrane	Y	Others	FEBS Lett. 1999 Apr 23;449(2-3):101-4.					

				Prior Screen							
				Reference #	18	12	13				
				Cells	Du-145	Jurkat	Neuro n				
				Method	ABE	17-ODYA	ABE				
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References
STT3A_HUMAN	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A OS=Homo sapiens GN=STT3A PE=1 SV=2	1.74	0.1953	3				ER membrane		Phosphorylation or glycosylation	
STX10_HUMAN	Syntaxin-10 OS=Homo sapiens GN=STX10 PE=1 SV=1	6.56	2.6165	5	M	H		Golgi		Transporter, vesicular or membrane trafficking	
STX11_HUMAN	Syntaxin-11 OS=Homo sapiens GN=STX11 PE=1 SV=1	18.85	2.3659	5				Cell membrane		Transporter, vesicular or membrane trafficking	
STX12_HUMAN	Syntaxin-12 OS=Homo sapiens GN=STX12 PE=1 SV=1	32.67	5.6257	24		H	H	Cell membrane		Transporter, vesicular or membrane trafficking	
STX6_HUMAN	Syntaxin-6 OS=Homo sapiens GN=STX6 PE=1 SV=1	5.47	0.3969	11	H	H	H	Cell membrane		Transporter, vesicular or membrane trafficking	
SUSD5_HUMAN	Sushi domain-containing protein 5 OS=Homo sapiens GN=SUSD5 PE=1 SV=3	29.78	8.0197	2				Cell membrane		Others	
SYAC_HUMAN	Alanyl-tRNA synthetase, cytoplasmic OS=Homo sapiens GN=AARS PE=1 SV=2	10.57	2.7566	5				Cytoplasm		Metabolism	
SYDM_HUMAN	Aspartyl-tRNA synthetase, mitochondrial OS=Homo sapiens GN=DARS2 PE=1 SV=1	17.43	6.0376	2				Mitochondrion		Metabolism	
SYWC_HUMAN	Tryptophanyl-tRNA synthetase, cytoplasmic OS=Homo sapiens GN=WARS PE=1 SV=2	1.65	0.4433	7				Cytoplasm		Metabolism	
T126A_HUMAN	Transmembrane protein 126A OS=Homo sapiens GN=TMEM126A PE=1 SV=1	1.99	0.3122	3				Mitochondrion		Others	
T184C_HUMAN	Transmembrane protein 184C OS=Homo sapiens GN=TMEM184C PE=2 SV=2	4.99	2.0142	2				Cell membrane		Others	
T4S1_HUMAN	Transmembrane 4 L6 family member 1 OS=Homo sapiens GN=TM4SF1 PE=1 SV=1	24.35	2.3225	16				Cell membrane		Others	
TALDO_HUMAN	Transaldolase OS=Homo sapiens GN=TALDO1 PE=1 SV=2	3.3	3.3394	3				Cytoplasm		Metabolism	
TFB2M_HUMAN	Dimethyladenosine transferase 2, mitochondrial OS=Homo sapiens GN=TFB2M PE=1 SV=1	4.43	0.8662	2				Mitochondrion		Metabolism	
TFR1_HUMAN	Transferrin receptor protein 1 OS=Homo sapiens GN=TFRC PE=1 SV=2	11.65	3.168	90	H	H		Cell membrane	Y	Receptor, cell surface molecules	J Biol Chem. 1990 Sep 25;265(27):16644-55.
THIC_HUMAN	Acetyl-CoA acetyltransferase, cytosolic OS=Homo sapiens GN=ACAT2 PE=1 SV=2	4.86	0.9801	41				Cytoplasm		Metabolism	
THIK_HUMAN	3-ketoacyl-CoA thiolase, peroxisomal OS=Homo sapiens GN=ACAA1 PE=1 SV=2	2.04	0.1931	13				Peroxisome		Metabolism	
THIL_HUMAN	Acetyl-CoA acetyltransferase, mitochondrial OS=Homo sapiens GN=ACAT1 PE=1 SV=1	2.45	0.3108	60				Mitochondrion		Metabolism	
THTM_HUMAN	3-mercaptopyruvate sulfurtransferase OS=Homo sapiens GN=MPST PE=1 SV=3	8.43	2.5477	38			H	Cytoplasm		Metabolism	
THTR_HUMAN	Thiosulfate sulfurtransferase OS=Homo sapiens GN=TST PE=1 SV=4	11.71	2.4711	3				Mitochondrion		Metabolism	
TITIN_HUMAN	Titin OS=Homo sapiens GN=TTN PE=1 SV=2	25.67	16.541	3		M		Cytoplasm		Cytoskeleton associated protein	
TM109_HUMAN	Transmembrane protein 109 OS=Homo sapiens GN=TMEM109 PE=1 SV=1	2.66	0.2977	5				Nucleus membrane, ER membrane		Others	
TM222_HUMAN	Transmembrane protein 222 OS=Homo sapiens GN=TMEM222 PE=1 SV=2	12.09	2.8716	4				Cell membrane		Others	
TM63A_HUMAN	Transmembrane protein 63A OS=Homo sapiens GN=TMEM63A PE=1 SV=3	25.67	16.541	6	M	M		Lysosome membrane		Others	
TMEDA_HUMAN	Transmembrane emp24 domain-containing protein 10 OS=Homo sapiens GN=TMED10 PE=1 SV=2	2.14	0.2655	3			M	Golgi, ER membrane		Transporter, vesicular or membrane trafficking	
TMM98_HUMAN	Transmembrane protein 98 OS=Homo sapiens GN=TMEM98 PE=2 SV=1	33.38	16.1485	2				Membrane		Others	
TMTC3_HUMAN	Transmembrane and TPR repeat-containing protein 3	16.14	1.4152	2				Membrane		Others	

				Prior Screen											
				Reference #	18	12	13								
				Cells	Du-145	Jurkat	Neuro n								
				Method	ABE	17-ODYA	ABE								
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References				
	OS=Homo sapiens GN=TMTC3 PE=1 SV=2														
TMX1_HUMAN	Thioredoxin-related transmembrane protein 1 OS=Homo sapiens GN=TMX1 PE=1 SV=1	21.28	9.0688	26				ER membrane	Y	Metabolism	EMBO J. 2011 Nov 1. doi: 10.1038/emboj.2011.384 . [Epub ahead of print]				
TMX3_HUMAN	Protein disulfide-isomerase TMX3 OS=Homo sapiens GN=TMX3 PE=1 SV=2	9.1	3.2985	16				ER membrane		Metabolism					
TMX4_HUMAN	Thioredoxin-related transmembrane protein 4 OS=Homo sapiens GN=TMX4 PE=1 SV=1	21.63	7.9342	13				ER membrane		Metabolism					
TNR12_HUMAN	Tumor necrosis factor receptor superfamily member 12A OS=Homo sapiens GN=TNFRSF12A PE=1 SV=1	16.71	21.6335	7				Cell membrane		Receptor, cell surface molecules					
TPBG_HUMAN	Trophoblast glycoprotein OS=Homo sapiens GN=TPBG PE=1 SV=1	8.85	6.956	5	H			Cell membrane		Others					
TPPC3_HUMAN	Trafficking protein particle complex subunit 3 OS=Homo sapiens GN=TRAPPC3 PE=1 SV=1	31.63	6.0602	50	H			Golgi, ER	Y	Transporter, vesicular or membrane trafficking	EMBO J. 2005 Mar 9;24(5):875-84. Epub 2005 Feb 3.				
TR10B_HUMAN	Tumor necrosis factor receptor superfamily member 10B OS=Homo sapiens GN=TNFRSF10B PE=1 SV=1	33.27	8.7389	9	H			Cell membrane		Receptor, cell surface molecules					
TRBM_HUMAN	Thrombomodulin OS=Homo sapiens GN=THBD PE=1 SV=2	17.67	2.646	2				Cell membrane		Receptor, cell surface molecules					
TRXR1_HUMAN	Thioredoxin reductase 1, cytoplasmic OS=Homo sapiens GN=TXNRD1 PE=1 SV=3	1.76	0.1869	88				Cytoplasm		Metabolism					
TSN14_HUMAN	Tetraspanin-14 OS=Homo sapiens GN=TSPAN14 PE=2 SV=1	24.86	14.4482	11	M			Cell membrane		Others					
TSN3_HUMAN	Tetraspanin-3 OS=Homo sapiens GN=TSPAN3 PE=2 SV=1	11.7	0.8296	5				Cell membrane		Cell adhesion or ECM interaction					
TSN6_HUMAN	Tetraspanin-6 OS=Homo sapiens GN=TSPAN6 PE=1 SV=1	2.34	0.687	6				Cell membrane		Others					
TTL12_HUMAN	Tubulin-tyrosine ligase-like protein 12 OS=Homo sapiens GN=TTLL12 PE=1 SV=2	3.47	0.4975	9				Unknown		Others					
TTYH3_HUMAN	Protein tweety homolog 3 OS=Homo sapiens GN=TTYH3 PE=1 SV=3	10.42	2.5107	16	H		H	Cell membrane		Transporter, vesicular or membrane trafficking					
TXTP_HUMAN	Tricarboxylate transport protein, mitochondrial OS=Homo sapiens GN=SLC25A1 PE=1 SV=2	1.86	1.2073	2		M		Mitochondrial membrane		Transporter, vesicular or membrane trafficking					
UB2G1_HUMAN	Ubiquitin-conjugating enzyme E2 G1 OS=Homo sapiens GN=UBE2G1 PE=1 SV=3	5.38	2.0968	2				Unknown		Protease or protein degradation					
UB2G2_HUMAN	Ubiquitin-conjugating enzyme E2 G2 OS=Homo sapiens GN=UBE2G2 PE=1 SV=1	3.18	0.1578	4				Unknown		Protease or protein degradation					
UB2L3_HUMAN	Ubiquitin-conjugating enzyme E2 L3 OS=Homo sapiens GN=UBE2L3 PE=1 SV=1	2.34	0.687	64				Unknown		Protease or protein degradation					
UB2L6_HUMAN	Ubiquitin/ISG15-conjugating enzyme E2 L6 OS=Homo sapiens GN=UBE2L6 PE=1 SV=4	4.78	0.8748	5				Unknown		Protease or protein degradation					
UB2V1_HUMAN	Ubiquitin-conjugating enzyme E2 variant 1 OS=Homo sapiens GN=UBE2V1 PE=1 SV=2	1.51	0.5617	5				Unknown		Protease or protein degradation					
UBC12_HUMAN	NEDD8-conjugating enzyme Ubc12 OS=Homo sapiens GN=UBE2M PE=1 SV=1	2.69	0.318	5				Unknown		Protease or protein degradation					
UBE2K_HUMAN	Ubiquitin-conjugating enzyme E2 K OS=Homo sapiens GN=UBE2K PE=1 SV=3	6.1	0.4924	18				Unknown		Protease or protein degradation					
UBE2N_HUMAN	Ubiquitin-conjugating enzyme E2 N OS=Homo sapiens GN=UBE2N PE=1 SV=1	6.56	1.9147	47				Unknown		Protease or protein degradation					
UBIQ_HUMAN	Ubiquitin	2.42	0.1716	6				Cytoplasm		Protease or protein degradation					
UBR4_HUMAN	E3 ubiquitin-protein ligase UBR4 OS=Homo sapiens GN=UBR4 PE=1 SV=1	27.36	2.1717	3				Cytoplasm		Protease or protein degradation					
UCRI_HUMAN	Cytochrome b-c1 complex subunit Rieske, mitochondrial OS=Homo sapiens GN=UQCRCF1 PE=1 SV=2	2.06	0.1126	2			M	Mitochondrion		Metabolism					

				Prior Screen							
				Reference #	18	12	13				
				Cells	Du-145	Jurkat	Neuro n				
				Method	ABE	17-ODYA	ABE				
Protein ID	Protein Name and Description	Ratio (+/-HA)	STDEV(+/-)	#Peptide				Location	Known Palmitoylation	Function Class	References
UE2NL_HUMAN	Putative ubiquitin-conjugating enzyme E2 N-like	5.05	1.2635	16				Unknown		Protease or protein degradation	
UFC1_HUMAN	Ubiquitin-fold modifier-conjugating enzyme 1 OS=Homo sapiens GN=UFC1 PE=1 SV=3	3.02	0.3213	4				Unknown		Protease or protein degradation	
VAMP3_HUMAN	Vesicle-associated membrane protein 3 OS=Homo sapiens GN=VAMP3 PE=1 SV=3	39.33	18.9501	55	H	H		Cell membrane		Transporter, vesicular or membrane trafficking	
VAMP4_HUMAN	Vesicle-associated membrane protein 4 OS=Homo sapiens GN=VAMP4 PE=1 SV=2	47.81	20.3333	16	M		H	Golgi		Transporter, vesicular or membrane trafficking	
VAMP5_HUMAN	Vesicle-associated membrane protein 5 OS=Homo sapiens GN=VAMP5 PE=1 SV=1	34.59	16.0758	33		M		Cell membrane		Transporter, vesicular or membrane trafficking	
VAMP7_HUMAN	Vesicle-associated membrane protein 7 OS=Homo sapiens GN=VAMP7 PE=1 SV=3	29.5	11.4987	11	H		M	Cell membrane		Transporter, vesicular or membrane trafficking	
VATA_HUMAN	V-type proton ATPase catalytic subunit A OS=Homo sapiens GN=ATP6V1A PE=1 SV=2	2.06	0.1126	36				Cell membrane		Metabolism	
VDAC3_HUMAN	Voltage-dependent anion-selective channel protein 3 OS=Homo sapiens GN=VDAC3 PE=1 SV=1	1.62	1.65	0.4874			M	Mitochondrion		Transporter, vesicular or membrane trafficking	
VIGLN_HUMAN	Vigilin OS=Homo sapiens GN=HDLBP PE=1 SV=2	2.06	0.0213	13				Cytoplasm, Nucleus		Metabolism	
VWF_HUMAN	von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=3	3.07	2.61	0.3172				Secreted		Cell adhesion or ECM interaction	
ZBED5_HUMAN	Zinc finger BED domain-containing protein 5 OS=Homo sapiens GN=ZBED5 PE=1 SV=2	16.68	9.6735	2				Unknown		Others	
ZC3H6_HUMAN	Zinc finger CCH domain-containing protein 6 OS=Homo sapiens GN=ZC3H6 PE=2 SV=1	3.42	0.1963	3				Unknown		Others	
ZDH13_HUMAN	Palmitoyltransferase ZDHC13 OS=Homo sapiens GN=ZDHC13 PE=2 SV=3	6.88	2.1593	8				Golgi		Others (Palmitoyltransferase)	
ZN426_HUMAN	Zinc finger protein 426	17.1	0.3625	2				Nucleus		Transcription or translation regulator	
ZN806_HUMAN	Zinc finger protein 806	31	7.0619	2				Nucleus		Transcription or translation regulator	
ZN827_HUMAN	Zinc finger protein 827 OS=Homo sapiens GN=ZNF827 PE=2 SV=1	22.11	<0.0001	7				Nucleus		Transcription or translation regulator	

Online-Table III

Palmitoylation candidates increased or decreased by insulin. Those implicated in membrane trafficking, cell migration, or angiogenesis are shown in bold.

Protein name	SILAC ratio (+/- insulin)	P value
FIG4 Polyphosphoinositide phosphatase	71.0	0.0343
KIF3B Kinesin-like protein	57.4	<0.0001
Protein SLC7A6OS	53.1	0.3090
MAML3 Mastermind-like protein 3	50.7	0.0296
Uncharacterized protein C1orf131	49.4	<0.0001
DPPA2 Developmental pluripotency-associated protein 2	34.7	<0.0001
Zinc finger BED domain-containing protein 5	33.1	0.0152
Transcription elongation regulator 1	22.9	0.0494
PA1B3 Platelet-activating factor acetylhydrolase IB subunit gamma	21	0.0083
Ataxin-7	19.3	<0.0001
Microtubule-actin cross-linking factor 1	8.3	<0.0001
Autophagy-related protein 16-1	7.5	<0.0001
Fructose-1,6-bisphosphatase isozyme 2	7.0	0.0196
SH3 domain and tetratricopeptide repeats-containing protein 1	6.6	0.1832
Ras-related protein Rab-18	4.9	0.5040
Lymphatic vessel endothelial hyaluronic acid receptor 1	2.7	0.0001
T4S1 Transmembrane 4 L6 family member 1	2.3	0.1157
FBLN3 EGF-containing fibulin-like extracellular matrix protein 1	2.29	<0.0001
Bone marrow stromal antigen 2	2.0	0.0012
Ras-related protein Rab-27A	0.3	0.1515
Glomulin	0.29	0.0542
MAGUK p55 subfamily member 5	0.28	<0.0001
Oligophrenin-1	0.27	<0.0001
Gap junction alpha-3 protein	0.255	0.1772
Latrophilin-3	0.25	0.0282
Ankyrin repeat and sterile alpha motif domain-containing protein 1B	0.25	0.0045
Nebulin-related-anchoring protein	0.21	0.0300
Autophagy-related protein 12	0.2	0.0599
Beta-1,3-glucosyltransferase	0.15	0.0008
Disintegrin and metalloproteinase domain-containing protein 23	0.1	0.0036
Ig gamma-1 chain C region	0.1	0.0106
Coilin	0.08	0.0003
U2 small nuclear ribonucleoprotein auxiliary factor 35 kDa subunit-related protein 1	0.075	0.0034
A-kinase anchor protein 10, mitochondrial	0.045	0.0033
Negative elongation factor B	0.03	<0.0001

Online-Table IV

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
1A25_HUMAN	HLA class I histocompatibility antigen, A-25 alpha chain OS=Homo sapiens GN=HLA-A PE=2 SV=1	1.62	0.1513	7
1A34_HUMAN	HLA class I histocompatibility antigen, A-34 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=1	1.25	0.1426	59
1A69_HUMAN	HLA class I histocompatibility antigen, A-69 alpha chain OS=Homo sapiens GN=HLA-A PE=1 SV=2	1.24	0.1544	48
1B07_HUMAN	HLA class I histocompatibility antigen, B-7 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=3	1.27	0.1094	80
1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.28	0.1208	76
1B15_HUMAN	HLA class I histocompatibility antigen, B-15 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2	1.32	0.1227	71
1B27_HUMAN	HLA class I histocompatibility antigen, B-27 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2	1.68	0.1139	16
1B35_HUMAN	HLA class I histocompatibility antigen, B-35 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.35	0.1052	71
1B38_HUMAN	HLA class I histocompatibility antigen, B-38 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	1.3	0.1204	74
1B40_HUMAN	HLA class I histocompatibility antigen, B-40 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.33	0.127	77
1B41_HUMAN	HLA class I histocompatibility antigen, B-41 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.31	0.126	79
1B44_HUMAN	HLA class I histocompatibility antigen, B-44 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.31	0.1144	55
1B47_HUMAN	HLA class I histocompatibility antigen, B-47 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	1.33	0.1259	65
1B48_HUMAN	HLA class I histocompatibility antigen, B-48 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.37	0.1222	98
1B49_HUMAN	HLA class I histocompatibility antigen, B-49 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=2	1.32	0.13	63
1B51_HUMAN	HLA class I histocompatibility antigen, B-51 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.33	0.1084	61
1B54_HUMAN	HLA class I histocompatibility antigen, B-54 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	1.37	0.1221	56
1B73_HUMAN	HLA class I histocompatibility antigen, B-73 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=1	1.67	0.1217	12
1B82_HUMAN	HLA class I histocompatibility antigen, B-82 alpha chain OS=Homo sapiens GN=HLA-B PE=2 SV=1	1.3	0.1235	64
1C01_HUMAN	HLA class I histocompatibility antigen, Cw-1 alpha chain OS=Homo sapiens GN=HLA-C PE=2 SV=1	1.22	0.0815	37
1C02_HUMAN	HLA class I histocompatibility antigen, Cw-2 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	1.33	0.0999	74
1C03_HUMAN	HLA class I histocompatibility antigen, Cw-3 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2	1.26	0.1073	51
1C04_HUMAN	HLA class I histocompatibility antigen, Cw-4 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	1.34	0.1121	43
1C06_HUMAN	HLA class I histocompatibility antigen, Cw-6 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2	1.08	0.0813	12
1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=3	1.21	0.1061	54
1C12_HUMAN	HLA class I histocompatibility antigen, Cw-12 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=2	1.3	0.1186	61
1C15_HUMAN	HLA class I histocompatibility antigen, Cw-15 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	1.27	0.1067	54
1C17_HUMAN	HLA class I histocompatibility antigen, Cw-17 alpha chain OS=Homo sapiens GN=HLA-C PE=1 SV=1	1.39	0.1197	83
1C18_HUMAN	HLA class I histocompatibility antigen, Cw-18 alpha chain OS=Homo sapiens GN=HLA-C PE=2 SV=1	1.27	0.0993	47
4F2_HUMAN	4F2 cell-surface antigen heavy chain OS=Homo sapiens GN=SLC3A2 PE=1 SV=3	0.77	0.0643	4
A16L1_HUMAN	Autophagy-related protein 16-1 OS=Homo sapiens GN=ATG16L1 PE=1 SV=2	7.51	<0.0001	2
AAAT_HUMAN	Neutral amino acid transporter B(0) OS=Homo sapiens GN=SLC1A5 PE=1 SV=2	1.32	0.1575	13
ADA10_HUMAN	Disintegrin and metalloproteinase domain-containing protein 10 OS=Homo sapiens GN=ADAM10 PE=1 SV=1	0.93	0.1589	29
ADA17_HUMAN	Disintegrin and metalloproteinase domain-containing protein 17 OS=Homo sapiens GN=ADAM17 PE=1 SV=1	0.93	0.1844	5
ADA23_HUMAN	Disintegrin and metalloproteinase domain-containing protein 23	0.1	0.0071	2
ADCYA_HUMAN	Adenylate cyclase type 10 OS=Homo sapiens GN=ADCY10 PE=1 SV=3	1.72	0.1289	4
AKA10_HUMAN	A-kinase anchor protein 10, mitochondrial	0.045	<0.0001	2
AL1A1_HUMAN	Retinal dehydrogenase 1 OS=Homo sapiens GN=ALDH1A1 PE=1 SV=2	1.07	0.21	7
AL1B1_HUMAN	Aldehyde dehydrogenase X, mitochondrial OS=Homo sapiens GN=ALDH1B1 PE=1 SV=3	1.59	0.08	20
ANGP2_HUMAN	Angiopoietin-2 OS=Homo sapiens GN=ANGPT2 PE=1 SV=1	2	0.2439	3
ANKZ1_HUMAN	Ankyrin repeat and zinc finger domain-containing protein 1 OS=Homo sapiens GN=ANKZF1 PE=1 SV=1	0.8	0.0076	4

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
ANS1B_HUMAN	Ankyrin repeat and sterile alpha motif domain-containing protein 1B	0.25	0.0465	2
ANTR2_HUMAN	Anthrax toxin receptor 2 OS=Homo sapiens GN=ANTXR2 PE=1 SV=5	0.89	0.05	20
AP2M1_HUMAN	AP-2 complex subunit mu OS=Homo sapiens GN=AP2M1 PE=1 SV=2	0.95	0.23	4
ARL15_HUMAN	ADP-ribosylation factor-like protein 15 OS=Homo sapiens GN=ARL15 PE=1 SV=1	1	0.1724	12
ARVC_HUMAN	Armadillo repeat protein deleted in velo-cardio-facial syndrome OS=Homo sapiens GN=ARVCF PE=1 SV=1	1.15	0.1072	38
AT11A_HUMAN	Probable phospholipid-transporting ATPase 1H OS=Homo sapiens GN=ATP11A PE=2 SV=3	0.7	<0.0001	2
ATG12_HUMAN	Autophagy-related protein 12	0.2	0.1073	2
ATG3_HUMAN	Ubiquitin-like-conjugating enzyme ATG3 OS=Homo sapiens GN=ATG3 PE=1 SV=1	0.94	0.0463	7
ATG7_HUMAN	Ubiquitin-like modifier-activating enzyme ATG7 OS=Homo sapiens GN=ATG7 PE=1 SV=1	1.02	0.1426	13
ATX7_HUMAN	Ataxin-7	19.33	<0.0001	5
AUP1_HUMAN	Ancient ubiquitous protein 1 OS=Homo sapiens GN=AUP1 PE=1 SV=1	0.87	0.0992	18
B3GLT_HUMAN	Beta-1,3-glucosyltransferase	0.15	0.1183	4
B4GT1_HUMAN	Beta-1,4-galactosyltransferase 1 OS=Homo sapiens GN=B4GALT1 PE=1 SV=5	1.07	0.08	5
B4GT5_HUMAN	Beta-1,4-galactosyltransferase 5 OS=Homo sapiens GN=B4GALT5 PE=2 SV=1	1.13	0.05	2
BAZ1B_HUMAN	Tyrosine-protein kinase BAZ1B OS=Homo sapiens GN=BAZ1B PE=1 SV=2	1.07	0.0177	3
BCAM_HUMAN	Basal cell adhesion molecule OS=Homo sapiens GN=BCAM PE=1 SV=2	1.02	0.1205	13
BET1_HUMAN	BET1 homolog OS=Homo sapiens GN=BET1 PE=1 SV=1	1.12	0.1011	11
BET1L_HUMAN	BET1-like protein OS=Homo sapiens GN=BET1L PE=1 SV=1	1.3	0.181	2
BST2_HUMAN	Bone marrow stromal antigen 2 OS=Homo sapiens GN=BST2 PE=1 SV=1	2.01	0.0681	3
BTF3_HUMAN	Transcription factor BTF3 OS=Homo sapiens GN=BTF3 PE=1 SV=1	1.55	0.0388	2
C1QBP_HUMAN	Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Homo sapiens GN=C1QBP PE=1 SV=1	0.88	0.1074	17
CA131_HUMAN	Uncharacterized protein C1orf131 OS=Homo sapiens GN=C1orf131 PE=1 SV=3	49.42	<0.0001	2
CALX_HUMAN	Calnexin OS=Homo sapiens GN=CANX PE=1 SV=2	1.13	0.0393	8
CAN5_HUMAN	Calpain-5 OS=Homo sapiens GN=CAPN5 PE=2 SV=2	1.04	0.1099	18
CATB_HUMAN	Cathepsin B OS=Homo sapiens GN=CTSB PE=1 SV=3	0.97	0.0636	14
CATZ_HUMAN	Cathepsin Z OS=Homo sapiens GN=CTSZ PE=1 SV=1	1.47	0.2263	6
CAV1_HUMAN	Caveolin-1 OS=Homo sapiens GN=CAV1 PE=1 SV=4	1.54	0.354	51
CAV2_HUMAN	Caveolin-2 OS=Homo sapiens GN=CAV2 PE=1 SV=2	1.58	0.1221	89
CBPD_HUMAN	Carboxypeptidase D OS=Homo sapiens GN=CPD PE=1 SV=2	0.94	0.0183	2
CBR3_HUMAN	Carbonyl reductase [NADPH] 3 OS=Homo sapiens GN=CBR3 PE=1 SV=3	0.94	0.146	6
CCNY_HUMAN	Cyclin-Y OS=Homo sapiens GN=CCNY PE=1 SV=2	0.95	0.0655	11
CCYL1_HUMAN	Cyclin-Y-like protein 1 OS=Homo sapiens GN=CCYL1 PE=1 SV=2	1.03	0.03	6
CD151_HUMAN	CD151 antigen OS=Homo sapiens GN=CD151 PE=1 SV=3	0.69	0.0753	7
CD276_HUMAN	CD276 antigen OS=Homo sapiens GN=CD276 PE=1 SV=1	1.08	0.0464	5
CD44_HUMAN	CD44 antigen OS=Homo sapiens GN=CD44 PE=1 SV=3	0.87	0.0562	88
CD63_HUMAN	CD63 antigen OS=Homo sapiens GN=CD63 PE=1 SV=2	1.5	0.0604	8
CD81_HUMAN	CD81 antigen OS=Homo sapiens GN=CD81 PE=1 SV=1	1.11	0.059	10
CD82_HUMAN	CD82 antigen OS=Homo sapiens GN=CD82 PE=1 SV=1	1.01	0.0309	3
CD9_HUMAN	CD9 antigen OS=Homo sapiens GN=CD9 PE=1 SV=4	1	0.0805	16
CDK1_HUMAN	Cell division protein kinase 1 OS=Homo sapiens GN=CDK1 PE=1 SV=2	1.35	0.05	2
CF125_HUMAN	Uncharacterized protein C6orf125 OS=Homo sapiens GN=C6orf125 PE=1 SV=1	0.9	0.1045	14
CHD2_HUMAN	Chromodomain-helicase-DNA-binding protein 2 OS=Homo sapiens GN=CHD2 PE=1 SV=2	0.61	<0.0001	2
CHD3_HUMAN	Chromodomain-helicase-DNA-binding protein 3 OS=Homo sapiens GN=CHD3 PE=1 SV=3	0.81	0.16	2

Insulin effect		Palmitoylation candidates: Peptide >=2		
		Also found in 1st screen		
		Not found in 1st screen		
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
CISD1_HUMAN	CDGSH iron-sulfur domain-containing protein 1 OS=Homo sapiens GN=CISD1 PE=1 SV=1	0.83	0.2273	5
CJ058_HUMAN	UPF0765 protein C10orf58 OS=Homo sapiens GN=C10orf58 PE=1 SV=3	1.06	0.1025	18
CK059_HUMAN	RhoA activator C11orf59 OS=Homo sapiens GN=C11orf59 PE=1 SV=2	0.97	0.0843	78
CKAP4_HUMAN	Cytoskeleton-associated protein 4 OS=Homo sapiens GN=CKAP4 PE=1 SV=2	0.97	0.1243	27
CKLF7_HUMAN	CKLF-like MARVEL transmembrane domain-containing protein 7 OS=Homo sapiens GN=CMTM7 PE=2 SV=1	0.99	0.0963	3
CLAP1_HUMAN	CLIP-associating protein 1 OS=Homo sapiens GN=CLASP1 PE=1 SV=1	0.87	<0.0001	2
CLC14_HUMAN	C-type lectin domain family 14 member A OS=Homo sapiens GN=CLEC14A PE=1 SV=1	1.1	0.1088	52
CLD11_HUMAN	Claudin-11 OS=Homo sapiens GN=CLDN11 PE=1 SV=2	0.88	0.1205	14
CLD5_HUMAN	Claudin-5 OS=Homo sapiens GN=CLDN5 PE=1 SV=1	1.64	0.1957	23
CLGN_HUMAN	Calmegin OS=Homo sapiens GN=CLGN PE=1 SV=1	0.69	0.0029	3
COIL_HUMAN	Coilin OS=Homo sapiens GN=COIL PE=1 SV=1	0.08	0.0221	3
CP4X1_HUMAN	Cytochrome P450 4X1 OS=Homo sapiens GN=CYP4X1 PE=2 SV=1	1.55	<0.0001	2
CPSF1_HUMAN	Cleavage and polyadenylation specificity factor subunit 1 OS=Homo sapiens GN=CPSF1 PE=1 SV=2	0.95	0.1657	2
CPSM_HUMAN	Carbamoyl-phosphate synthase [ammonia], mitochondrial OS=Homo sapiens GN=CPS1 PE=1 SV=2	1.22	0.0777	2
CTDS1_HUMAN	Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1 OS=Homo sapiens GN=CTDSP1 PE=1 SV=1	1.02	0.2438	6
CTL1_HUMAN	Choline transporter-like protein 1 OS=Homo sapiens GN=SLC44A1 PE=1 SV=1	0.85	0.0681	10
CTL2_HUMAN	Choline transporter-like protein 2 OS=Homo sapiens GN=SLC44A2 PE=1 SV=3	1.4	0.0845	12
CTND1_HUMAN	Catenin delta-1 OS=Homo sapiens GN=CTNND1 PE=1 SV=1	0.93	0.141	35
CXA3_HUMAN	Gap junction alpha-3 protein OS=Homo sapiens GN=GJA3 PE=1 SV=4	0.255	0.3536	2
CYB5B_HUMAN	Cytochrome b5 type B OS=Homo sapiens GN=CYB5B PE=1 SV=2	1.11	0.1064	16
CYC_HUMAN	Cytochrome c OS=Homo sapiens GN=CYCS PE=1 SV=2	0.95	0.0472	10
DAG1_HUMAN	Dystroglycan OS=Homo sapiens GN=DAG1 PE=1 SV=2	1	0.1836	17
DCBD1_HUMAN	Discoidin, CUB and LCCL domain-containing protein 1 OS=Homo sapiens GN=DCBLD1 PE=2 SV=2	0.89	0.1472	2
DCNL3_HUMAN	DCN1-like protein 3 OS=Homo sapiens GN=DCUN1D3 PE=2 SV=1	1.21	0.2106	5
DESM_HUMAN	Desmin OS=Homo sapiens GN=DES PE=1 SV=3	0.8	0.11	10
DNJC5_HUMAN	DnaJ homolog subfamily C member 5 OS=Homo sapiens GN=DNAJC5 PE=1 SV=1	1.02	0.0804	4
DOC2A_HUMAN	Double C2-like domain-containing protein alpha OS=Homo sapiens GN=DOC2A PE=1 SV=5	0.53	0.0711	2
DPB1_HUMAN	HLA class II histocompatibility antigen, DP beta 1 chain OS=Homo sapiens GN=HLA-DPB1 PE=1 SV=1	1.02	0.0476	2
DPPA2_HUMAN	Developmental pluripotency-associated protein 2 OS=Homo sapiens GN=DPPA2 PE=2 SV=2	34.73	<0.0001	2
DTNA_HUMAN	Dystrobrevin alpha OS=Homo sapiens GN=DTNA PE=1 SV=2	1.01	0.0733	4
DUS23_HUMAN	Dual specificity protein phosphatase 23 OS=Homo sapiens GN=DUSP23 PE=1 SV=1	0.94	0.094	24
ECE1_HUMAN	Endothelin-converting enzyme 1 OS=Homo sapiens GN=ECE1 PE=1 SV=2	1.26	0.1569	144
EFHD2_HUMAN	EF-hand domain-containing protein D2 OS=Homo sapiens GN=EFHD2 PE=1 SV=1	1.33	0.1771	3
EFR3A_HUMAN	Protein EFR3 homolog A OS=Homo sapiens GN=EFR3A PE=1 SV=2	1.01	0.0838	7
EGLN_HUMAN	Endoglin OS=Homo sapiens GN=ENG PE=1 SV=2	1.22	0.0712	5
EPCR_HUMAN	Endothelial protein C receptor OS=Homo sapiens GN=PROCR PE=1 SV=1	1.16	0.0765	24
ERF1_HUMAN	Eukaryotic peptide chain release factor subunit 1 OS=Homo sapiens GN=ETF1 PE=1 SV=3	0.99	0.11	2
ERGI1_HUMAN	Endoplasmic reticulum-Golgi intermediate compartment protein 1 OS=Homo sapiens GN=ERGIC1 PE=1 SV=1	1.06	0.0734	5
ERGI3_HUMAN	Endoplasmic reticulum-Golgi intermediate compartment protein 3 OS=Homo sapiens GN=ERGIC3 PE=1 SV=1	1.13	0.23	27
ERO1A_HUMAN	ERO1-like protein alpha OS=Homo sapiens GN=ERO1L PE=1 SV=2	1.03	0.06	14
ERP44_HUMAN	Endoplasmic reticulum resident protein 44 OS=Homo sapiens GN=ERP44 PE=1 SV=1	1.58	0.0919	5

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
F108B_HUMAN	Abhydrolase domain-containing protein FAM108B1 OS=Homo sapiens GN=FAM108B1 PE=2 SV=1	1.07	0.027	18
F16P2_HUMAN	Fructose-1,6-bisphosphatase isozyme 2 OS=Homo sapiens GN=FBP2 PE=1 SV=2	7.02	0.9151	2
F1711_HUMAN	Protein FAM171A1 OS=Homo sapiens GN=FAM171A1 PE=1 SV=1	0.77	0.0544	4
F176A_HUMAN	Protein FAM176A OS=Homo sapiens GN=FAM176A PE=2 SV=1	1.16	0.0255	2
F184A_HUMAN	Protein FAM184A OS=Homo sapiens GN=FAM184A PE=2 SV=3	0.92	0.03	2
FA49B_HUMAN	Protein FAM49B OS=Homo sapiens GN=FAM49B PE=1 SV=1	0.89	0.082	2
FABP5_HUMAN	Fatty acid-binding protein, epidermal OS=Homo sapiens GN=FABP5 PE=1 SV=3	0.65	0.0488	9
FAS_HUMAN	Fatty acid synthase OS=Homo sapiens GN=FASN PE=1 SV=3	0.98	0.1335	7
FBL1_HUMAN	Filamin-binding LIM protein 1 OS=Homo sapiens GN=FBLIM1 PE=1 SV=2	1.07	0.1	23
FBLN3_HUMAN	EGF-containing fibulin-like extracellular matrix protein 1 OS=Homo sapiens GN=EFEMP1 PE=1 SV=2	2.29	0.18	25
FIG4_HUMAN	Polyphosphoinositide phosphatase OS=Homo sapiens GN=FIG4 PE=1 SV=1	79.9	3.4522	3
FLOT1_HUMAN	Flotillin-1 OS=Homo sapiens GN=FLOT1 PE=1 SV=3	1.19	0.1845	172
FLOT2_HUMAN	Flotillin-2 OS=Homo sapiens GN=FLOT2 PE=1 SV=2	1.32	0.1934	75
FPRP_HUMAN	Prostaglandin F2 receptor negative regulator OS=Homo sapiens GN=PTGFRN PE=1 SV=2	1.3	0.1751	6
FUBP3_HUMAN	Far upstream element-binding protein 3 OS=Homo sapiens GN=FUBP3 PE=1 SV=2	0.94	0.0743	3
FYN_HUMAN	Tyrosine-protein kinase Fyn OS=Homo sapiens GN=FYN PE=1 SV=3	1.14	0.2	12
GALT1_HUMAN	Polypeptide N-acetylgalactosaminyltransferase 1 OS=Homo sapiens GN=GALNT1 PE=1 SV=1	1.1	0.1452	44
GAPR1_HUMAN	Golgi-associated plant pathogenesis-related protein 1 OS=Homo sapiens GN=GLIPR2 PE=1 SV=3	1.36	0.1288	3
GDF5_HUMAN	Growth/differentiation factor 5 OS=Homo sapiens GN=GDF5 PE=1 SV=3	0.2	0.0044	4
GLCE_HUMAN	D-glucuronyl C5-epimerase OS=Homo sapiens GN=GLCE PE=1 SV=3	1.03	0.045	40
GLMN_HUMAN	Glomulin	0.36	0.4159	3
GLU2B_HUMAN	Glucosidase 2 subunit beta OS=Homo sapiens GN=PRKCSH PE=1 SV=2	1	0.0375	3
GNA11_HUMAN	Guanine nucleotide-binding protein subunit alpha-11 OS=Homo sapiens GN=GNA11 PE=1 SV=2	0.93	0.081	4
GNA13_HUMAN	Guanine nucleotide-binding protein subunit alpha-13 OS=Homo sapiens GN=GNA13 PE=1 SV=2	0.96	0.0734	71
GNA14_HUMAN	Guanine nucleotide-binding protein subunit alpha-14 OS=Homo sapiens GN=GNA14 PE=2 SV=1	0.93	0.1003	59
GNA15_HUMAN	Guanine nucleotide-binding protein subunit alpha-15 OS=Homo sapiens GN=GNA15 PE=2 SV=2	1.01	0.0365	2
GNAI2_HUMAN	Guanine nucleotide-binding protein G(i) subunit alpha-2 OS=Homo sapiens GN=GNAI2 PE=1 SV=3	0.99	0.0906	78
GNAO_HUMAN	Guanine nucleotide-binding protein G(o) subunit alpha	0.9	0.07	19
GNAQ_HUMAN	Guanine nucleotide-binding protein G(q) subunit alpha OS=Homo sapiens GN=GNAQ PE=1 SV=4	1.02	0.1139	121
GNPAT_HUMAN	Dihydroxyacetone phosphate acyltransferase OS=Homo sapiens GN=GNPAT PE=1 SV=1	1.04	0.1152	7
GOGA7_HUMAN	Golgin subfamily A member 7 OS=Homo sapiens GN=GOLGA7 PE=1 SV=2	0.97	0.1129	28
GOLI4_HUMAN	Golgi integral membrane protein 4 OS=Homo sapiens GN=GOLIM4 PE=1 SV=1	1.05	0.1484	2
GPX1_HUMAN	Glutathione peroxidase 1 OS=Homo sapiens GN=GPX1 PE=1 SV=4	1.18	0.0954	42
GPX4_HUMAN	Phospholipid hydroperoxide glutathione peroxidase, mitochondrial OS=Homo sapiens GN=GPX4 PE=1 SV=3	1.05	0.0945	13
GPX8_HUMAN	Probable glutathione peroxidase 8 OS=Homo sapiens GN=GPX8 PE=1 SV=2	0.95	0.0386	29
GRIK2_HUMAN	Glutamate receptor, ionotropic kainate 2 OS=Homo sapiens GN=GRIK2 PE=1 SV=1	1.23	0.0357	2
GSLG1_HUMAN	Golgi apparatus protein 1 OS=Homo sapiens GN=GLG1 PE=1 SV=2	1.18	0.322	43
HDAC1_HUMAN	Histone deacetylase 1 OS=Homo sapiens GN=HDAC1 PE=1 SV=1	1.04	0.02	4
HLA_G_HUMAN	HLA class I histocompatibility antigen, alpha chain G OS=Homo sapiens GN=HLA-G PE=1 SV=1	1.3	0.0527	14
HM13_HUMAN	Minor histocompatibility antigen H13 OS=Homo sapiens GN=HM13 PE=1 SV=1	0.67	0.1315	2
I5P1_HUMAN	Type I inositol-1,4,5-trisphosphate 5-phosphatase OS=Homo sapiens GN=INPP5A PE=2 SV=1	1.36	0.8192	3
ICAM2_HUMAN	Intercellular adhesion molecule 2 OS=Homo sapiens GN=ICAM2 PE=1 SV=2	1.05	0.2317	21
IF2G_HUMAN	Eukaryotic translation initiation factor 2 subunit 3 OS=Homo sapiens GN=EIF2S3 PE=1 SV=3	1.42	0.28	24

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
IFM1_HUMAN	Interferon-induced transmembrane protein 1 OS=Homo sapiens GN=IFITM1 PE=1 SV=3	1.13	0.0174	6
IFM3_HUMAN	Interferon-induced transmembrane protein 3 OS=Homo sapiens GN=IFITM3 PE=1 SV=2	1.25	0.0728	74
IGHG1_HUMAN	Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1	0.1	0.0212	5
IL6RB_HUMAN	Interleukin-6 receptor subunit beta OS=Homo sapiens GN=IL6ST PE=1 SV=2	0.79	0.1028	3
ITA3_HUMAN	Integrin alpha-3 OS=Homo sapiens GN=ITGA3 PE=1 SV=4	1.1	0.1037	30
ITA5_HUMAN	Integrin alpha-5 OS=Homo sapiens GN=ITGA5 PE=1 SV=2	0.76	0.0267	8
ITA6_HUMAN	Integrin alpha-6 OS=Homo sapiens GN=ITGA6 PE=1 SV=4	1.05	0.0984	50
ITM2B_HUMAN	Integral membrane protein 2B OS=Homo sapiens GN=ITM2B PE=1 SV=1	1.27	0.1274	4
JAK1_HUMAN	Tyrosine-protein kinase JAK1 OS=Homo sapiens GN=JAK1 PE=1 SV=2	1.18	0.0373	5
JAM3_HUMAN	Junctional adhesion molecule C OS=Homo sapiens GN=JAM3 PE=1 SV=1	1.19	0.0889	21
K2013_HUMAN	Uncharacterized protein KIAA2013 OS=Homo sapiens GN=KIAA2013 PE=2 SV=1	1.04	0.0906	15
KANK1_HUMAN	KN motif and ankyrin repeat domain-containing protein 1 OS=Homo sapiens GN=KANK1 PE=1 SV=3	1.45	0.0424	2
KCNGB4_HUMAN	Potassium voltage-gated channel subfamily G member 4	0.22	0.1173	2
KIF3B_HUMAN	Kinesin-like protein KIF3B OS=Homo sapiens GN=KIF3B PE=1 SV=1	57.4	5.8934	11
LAMA4_HUMAN	Laminin subunit alpha-4 OS=Homo sapiens GN=LAMA4 PE=1 SV=4	0.92	0.03	2
LAP2_HUMAN	Protein LAP2 OS=Homo sapiens GN=ERBB2IP PE=1 SV=2	1	0.1801	3
LAPM5_HUMAN	Lysosomal-associated transmembrane protein 5 OS=Homo sapiens GN=LAPTM5 PE=1 SV=1	0.65	<.0001	2
LCAP_HUMAN	Leucyl-cystinyl aminopeptidase OS=Homo sapiens GN=LNPEP PE=1 SV=3	1.01	0.2122	48
LHPL2_HUMAN	Lipoma HMGIC fusion partner-like 2 protein OS=Homo sapiens GN=LHFPL2 PE=2 SV=2	1.23	0.0573	7
LPHN3_HUMAN	Latrophilin-3 OS=Homo sapiens GN=LPHN3 PE=1 SV=2	0.25	0.0321	2
LRC32_HUMAN	Leucine-rich repeat-containing protein 32 OS=Homo sapiens GN=LRRC32 PE=1 SV=1	1.79	0.1272	48
LRC47_HUMAN	Leucine-rich repeat-containing protein 47 OS=Homo sapiens GN=LRRC47 PE=1 SV=1	1.28	0.0336	2
LRRC1_HUMAN	Leucine-rich repeat-containing protein 1 OS=Homo sapiens GN=LRRC1 PE=1 SV=1	1.1	0.16	40
LYRIC_HUMAN	Protein LYRIC OS=Homo sapiens GN=MTDH PE=1 SV=2	1.48	0.1365	2
LYVE1_HUMAN	Lymphatic vessel endothelial hyaluronic acid receptor 1 OS=Homo sapiens GN=LYVE1 PE=1 SV=2	2.67	0.25	9
MA1B1_HUMAN	Endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase OS=Homo sapiens GN=MAN1B1 PE=1 SV=2	0.97	0.1031	31
MACF1_HUMAN	Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5 OS=Homo sapiens GN=MACF1 PE=1 SV=3	8.27	<.0001	2
MALD1_HUMAN	Putative MARVEL domain-containing protein 1 OS=Homo sapiens GN=MARVELD1 PE=5 SV=1	0.89	0.0491	2
MAML3_HUMAN	Mastermind-like protein 3 OS=Homo sapiens GN=MAML3 PE=1 SV=3	50.73	8.9095	2
MAT2B_HUMAN	Methionine adenosyltransferase 2 subunit beta OS=Homo sapiens GN=MAT2B PE=1 SV=1	1.07	0.037	2
MBLC2_HUMAN	Metallo-beta-lactamase domain-containing protein 2 OS=Homo sapiens GN=MBLAC2 PE=1 SV=3	0.96	0.0906	16
MENTO_HUMAN	MLN64 N-terminal domain homolog OS=Homo sapiens GN=STARD3NL PE=1 SV=1	0.98	0.0197	2
MGST3_HUMAN	Microsomal glutathione S-transferase 3 OS=Homo sapiens GN=MGST3 PE=1 SV=1	1.05	0.0714	9
MINT_HUMAN	Msx2-interacting protein OS=Homo sapiens GN=SPEN PE=1 SV=1	1	0.0158	4
MIRO2_HUMAN	Mitochondrial Rho GTPase 2 OS=Homo sapiens GN=RHOT2 PE=1 SV=2	1.01	0.0553	7
MLEC_HUMAN	Malectin OS=Homo sapiens GN=MLEC PE=1 SV=1	1.12	0.1437	60
MPP5_HUMAN	MAGUK p55 subfamily member 5 OS=Homo sapiens GN=MPP5 PE=1 SV=3	0.28	<.0001	2
MPRD_HUMAN	Cation-dependent mannose-6-phosphate receptor OS=Homo sapiens GN=M6PR PE=1 SV=1	1.03	0.2857	8
MREG_HUMAN	Melanoregulin OS=Homo sapiens GN=MREG PE=1 SV=1	0.87	0.2493	3
MUC18_HUMAN	Cell surface glycoprotein MUC18 OS=Homo sapiens GN=MCAM PE=1 SV=2	1.15	0.1431	191
MYCT1_HUMAN	Myc target protein 1 OS=Homo sapiens GN=MYCT1 PE=2 SV=1	1.12	0.117	11
MYH7B_HUMAN	Myosin-7B OS=Homo sapiens GN=MYH7B PE=2 SV=2	1.14	<.0001	2

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
MYOF_HUMAN	Myoferlin OS=Homo sapiens GN=MYOF PE=1 SV=1	1.17	0.1348	11
NALCN_HUMAN	Sodium leak channel non-selective protein OS=Homo sapiens GN=NALCN PE=1 SV=1	1.68	0.2007	3
NCEH1_HUMAN	Neutral cholesterol ester hydrolase 1 OS=Homo sapiens GN=NCEH1 PE=1 SV=3	1.12	0.0894	8
NELFB_HUMAN	Negative elongation factor B	0.03	<0.0001	3
NIPA_HUMAN	Nuclear-interacting partner of ALK OS=Homo sapiens GN=ZC3HC1 PE=1 SV=1	1.57	0.2499	2
NOS3_HUMAN	Nitric oxide synthase, endothelial OS=Homo sapiens GN=NOS3 PE=1 SV=3	1.18	0.0561	2
NRAP_HUMAN	Nebulin-related-anchoring protein OS=Homo sapiens GN=NRAP PE=2 SV=2	0.21	0.0652	2
NRCAM_HUMAN	Neuronal cell adhesion molecule OS=Homo sapiens GN=NRCAM PE=1 SV=3	0.74	<0.0001	4
NRP1_HUMAN	Neuropilin-1 OS=Homo sapiens GN=NRP1 PE=1 SV=3	0.96	0.347	20
NT5D2_HUMAN	5'-nucleotidase domain-containing protein 2 OS=Homo sapiens GN=NT5DC2 PE=1 SV=1	1.64	0.41	5
NUMA1_HUMAN	Nuclear mitotic apparatus protein 1 OS=Homo sapiens GN=NUMA1 PE=1 SV=2	1.26	0.0083	4
ODO2_HUMAN	Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial OS=Homo sapiens GN=DLST PE=1 SV=3	1.01	0.09	51
ODP2_HUMAN	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial OS=Homo sapiens GN=DLAT PE=1 SV=3	0.92	0.1831	95
ODPX_HUMAN	Pyruvate dehydrogenase protein X component, mitochondrial OS=Homo sapiens GN=PDHX PE=1 SV=3	0.95	0.16	26
OFD1_HUMAN	Oral-facial-digital syndrome 1 protein OS=Homo sapiens GN=OFD1 PE=1 SV=1	0.62	0.0179	5
OPHN1_HUMAN	Oligophrenin-1 OS=Homo sapiens GN=OPHN1 PE=2 SV=1	0.27	<0.0001	2
P4K2A_HUMAN	Phosphatidylinositol 4-kinase type 2-alpha OS=Homo sapiens GN=PI4K2A PE=1 SV=1	1.03	0.08	78
P4K2B_HUMAN	Phosphatidylinositol 4-kinase type 2-beta OS=Homo sapiens GN=PI4K2B PE=1 SV=1	0.89	0.03	5
PA1B3_HUMAN	Platelet-activating factor acetylhydrolase IB subunit gamma	21.02	7.461	3
PANK4_HUMAN	Pantothenate kinase 4 OS=Homo sapiens GN=PANK4 PE=1 SV=1	1.02	0.0476	2
PBIP1_HUMAN	Pre-B-cell leukemia transcription factor-interacting protein 1 OS=Homo sapiens GN=PBXIP1 PE=1 SV=1	1.04	0.0182	3
PCD17_HUMAN	Protocadherin-17 OS=Homo sapiens GN=PCDH17 PE=2 SV=2	0.675	0.2407	10
PDL1_HUMAN	PDZ and LIM domain protein 1 OS=Homo sapiens GN=PDLIM1 PE=1 SV=4	1.2	0.1248	15
PECA1_HUMAN	Platelet endothelial cell adhesion molecule OS=Homo sapiens GN=PECAM1 PE=1 SV=1	1.14	0.1276	84
PER1_HUMAN	Peripherin OS=Homo sapiens GN=PRPH PE=1 SV=2	0.79	0.14	11
PLD6_HUMAN	Phospholipase D6 OS=Homo sapiens GN=PLD6 PE=2 SV=1	1.14	0.0969	2
PLEC_HUMAN	Plectin OS=Homo sapiens GN=PLEC PE=1 SV=3	0.745	0.17	6
PLP2_HUMAN	Proteolipid protein 2 OS=Homo sapiens GN=PLP2 PE=1 SV=1	1	<0.0001	2
PLS1_HUMAN	Phospholipid scramblase 1 OS=Homo sapiens GN=PLSCR1 PE=1 SV=1	1.32	0.2111	40
PLS3_HUMAN	Phospholipid scramblase 3 OS=Homo sapiens GN=PLSCR3 PE=1 SV=2	1.01	0.0478	10
PLXB2_HUMAN	Plexin-B2 OS=Homo sapiens GN=PLXNB2 PE=1 SV=3	1.17	0.1345	7
PODXL_HUMAN	Podocalyxin OS=Homo sapiens GN=PODXL PE=1 SV=2	0.91	0.0517	11
PPDE1_HUMAN	PPPDE peptidase domain-containing protein 1 OS=Homo sapiens GN=PPPDE1 PE=2 SV=1	0.99	0.0523	11
PPOX_HUMAN	Protoporphyrinogen oxidase OS=Homo sapiens GN=PPOX PE=1 SV=1	1.08	0.0856	2
PRDX5_HUMAN	Peroxiredoxin-5, mitochondrial OS=Homo sapiens GN=PRDX5 PE=1 SV=3	1.01	0.0752	26
PRDX6_HUMAN	Peroxiredoxin-6 OS=Homo sapiens GN=PRDX6 PE=1 SV=3	1.1	0.1702	106
PSMD1_HUMAN	26S proteasome non-ATPase regulatory subunit 1 OS=Homo sapiens GN=PSMD1 PE=1 SV=2	0.97	0.076	11
PSN1_HUMAN	Presenilin-1 OS=Homo sapiens GN=PSEN1 PE=1 SV=1	0.69	0.0004	2
PTTG_HUMAN	Pituitary tumor-transforming gene 1 protein-interacting protein OS=Homo sapiens GN=PTTG1IP PE=1 SV=1	0.95	0.0654	9
PVR_HUMAN	Poliovirus receptor OS=Homo sapiens GN=PVR PE=1 SV=2	0.79	0.0556	24
PVRL2_HUMAN	Poliovirus receptor-related protein 2 OS=Homo sapiens GN=PVRL2 PE=1 SV=1	1.02	0.0887	12
QOR_HUMAN	Quinone oxidoreductase	0.42	0.4243	2

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
SEP15_HUMAN	15 kDa selenoprotein OS=Homo sapiens GN=SEP15 PE=1 SV=3	1.24	0.122	7
SERC1_HUMAN	Serine incorporator 1 OS=Homo sapiens GN=SERINC1 PE=1 SV=1	0.81	0.0732	4
SFPQ_HUMAN	Splicing factor, proline- and glutamine-rich OS=Homo sapiens GN=SFPQ PE=1 SV=2	0.98	0.0935	10
SNP23_HUMAN	Synaptosomal-associated protein 23 OS=Homo sapiens GN=SNAP23 PE=1 SV=1	1.08	0.104	36
SORC2_HUMAN	VPS10 domain-containing receptor SorCS2 OS=Homo sapiens GN=SORCS2 PE=1 SV=3	1	0.0158	4
SPY4_HUMAN	Protein sprouty homolog 4 OS=Homo sapiens GN=SPRY4 PE=1 SV=2	0.84	<0.0001	2
STML3_HUMAN	Stomatin-like protein 3 OS=Homo sapiens GN=STOML3 PE=1 SV=1	1.03	0.0191	4
STOM_HUMAN	Erythrocyte band 7 integral membrane protein OS=Homo sapiens GN=STOM PE=1 SV=3	1.06	0.1218	152
STT3A_HUMAN	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A OS=Homo sapiens GN=STT3A PE=1 SV=2	1.01	0.0281	3
STX10_HUMAN	Syntaxin-10 OS=Homo sapiens GN=STX10 PE=1 SV=1	1.08	0.0519	4
STX11_HUMAN	Syntaxin-11 OS=Homo sapiens GN=STX11 PE=1 SV=1	1.62	0.2406	7
STX12_HUMAN	Syntaxin-12 OS=Homo sapiens GN=STX12 PE=1 SV=1	0.99	0.0718	57
STX6_HUMAN	Syntaxin-6 OS=Homo sapiens GN=STX6 PE=1 SV=1	1.22	0.2237	19
STX8_HUMAN	Syntaxin-8 OS=Homo sapiens GN=STX8 PE=1 SV=2	1.09	0.1151	17
SURF4_HUMAN	Surfeit locus protein 4 OS=Homo sapiens GN=SURF4 PE=1 SV=3	1	0.0307	2
SUSD5_HUMAN	Sushi domain-containing protein 5 OS=Homo sapiens GN=SUSD5 PE=1 SV=3	0.79	0.0625	7
SYAC_HUMAN	Alanyl-tRNA synthetase, cytoplasmic OS=Homo sapiens GN=AARS PE=1 SV=2	1.25	0.0397	3
SYCP1_HUMAN	Synaptonemal complex protein 1 OS=Homo sapiens GN=SYCP1 PE=1 SV=2	1.19	0.0181	2
SYWC_HUMAN	Tryptophanyl-tRNA synthetase, cytoplasmic OS=Homo sapiens GN=WARS PE=1 SV=2	1.24	0.11	40
T126A_HUMAN	Transmembrane protein 126A OS=Homo sapiens GN=TMEM126A PE=1 SV=1	1.02	0.06	3
T184C_HUMAN	Transmembrane protein 184C OS=Homo sapiens GN=TMEM184C PE=2 SV=2	0.97	0.0664	4
T4S1_HUMAN	Transmembrane 4 L6 family member 1 OS=Homo sapiens GN=TM4SF1 PE=1 SV=1	2.3	0.8429	3
TBB8_HUMAN	Tubulin beta-8 chain OS=Homo sapiens GN=TUBB8 PE=1 SV=2	1.5	0.13	68
TBB8B_HUMAN	Tubulin beta-8 chain B OS=Homo sapiens PE=1 SV=1	1.96	0.14	56
TCRG1_HUMAN	Transcription elongation regulator 1 OS=Homo sapiens GN=TCERG1 PE=1 SV=2	22.88	14.2309	3
TEKT1_HUMAN	Tektin-1 OS=Homo sapiens GN=TEKT1 PE=2 SV=1	0.92	0.0428	2
TFR1_HUMAN	Transferrin receptor protein 1 OS=Homo sapiens GN=TFRC PE=1 SV=2	0.94	0.1065	77
THIC_HUMAN	Acetyl-CoA acetyltransferase, cytosolic OS=Homo sapiens GN=ACAT2 PE=1 SV=2	1.02	0.0648	2
THIK_HUMAN	3-ketoacyl-CoA thiolase, peroxisomal OS=Homo sapiens GN=ACAA1 PE=1 SV=2	1.16	0.1248	15
THIL_HUMAN	Acetyl-CoA acetyltransferase, mitochondrial OS=Homo sapiens GN=ACAT1 PE=1 SV=1	0.79	0.0528	68
THTR_HUMAN	Thiosulfate sulfurtransferase OS=Homo sapiens GN=TST PE=1 SV=4	1.04	0.186	14
TM109_HUMAN	Transmembrane protein 109 OS=Homo sapiens GN=TMEM109 PE=1 SV=1	1.22	0.1528	5
TM222_HUMAN	Transmembrane protein 222 OS=Homo sapiens GN=TMEM222 PE=1 SV=2	0.94	0.0043	2
TM50A_HUMAN	Transmembrane protein 50A OS=Homo sapiens GN=TMEM50A PE=1 SV=1	0.92	0.0283	2
TM63A_HUMAN	Transmembrane protein 63A OS=Homo sapiens GN=TMEM63A PE=1 SV=3	1.23	0.15	2
TMEDA_HUMAN	Transmembrane emp24 domain-containing protein 10 OS=Homo sapiens GN=TMED10 PE=1 SV=2	1.1	0.0077	3
TMM98_HUMAN	Transmembrane protein 98 OS=Homo sapiens GN=TMEM98 PE=2 SV=1	0.96	0.0223	5
TMTC3_HUMAN	Transmembrane and TPR repeat-containing protein 3 OS=Homo sapiens GN=TMTC3 PE=1 SV=2	0.81	0.16	2
TMX1_HUMAN	Thioredoxin-related transmembrane protein 1 OS=Homo sapiens GN=TMX1 PE=1 SV=1	0.98	0.1	49
TMX3_HUMAN	Protein disulfide-isomerase TMX3 OS=Homo sapiens GN=TMX3 PE=1 SV=2	1.04	0.1	53
TMX4_HUMAN	Thioredoxin-related transmembrane protein 4 OS=Homo sapiens GN=TMX4 PE=1 SV=1	1.08	0.093	23
TNR12_HUMAN	Tumor necrosis factor receptor superfamily member 12A OS=Homo sapiens GN=TNFRSF12A PE=1 SV=1	0.81	0.1654	11

Insulin effect		Palmitoylation candidates: Peptide >=2		
	Also found in 1st screen			
	Not found in 1st screen			
Protein ID	Description	Ratio (+/- Insulin)	STDEV (+/-)	Number of Peptides
TPBG_HUMAN	Trophoblast glycoprotein OS=Homo sapiens GN=TPBG PE=1 SV=1	0.91	0.0291	6
TPPC3_HUMAN	Trafficking protein particle complex subunit 3 OS=Homo sapiens GN=TRAPPC3 PE=1 SV=1	1.29	0.1141	80
TR10B_HUMAN	Tumor necrosis factor receptor superfamily member 10B OS=Homo sapiens GN=TNFRSF10B PE=1 SV=1	0.99	0.064	13
TRXR1_HUMAN	Thioredoxin reductase 1, cytoplasmic OS=Homo sapiens GN=TXNRD1 PE=1 SV=3	0.93	0.07	2
TSN11_HUMAN	Tetraspanin-11	0.9	0.2518	2
TSN18_HUMAN	Tetraspanin-18 OS=Homo sapiens GN=TSPAN18 PE=2 SV=1	1.67	0.297	2
TSN3_HUMAN	Tetraspanin-3 OS=Homo sapiens GN=TSPAN3 PE=2 SV=1	0.94	0.08	2
TSN6_HUMAN	Tetraspanin-6 OS=Homo sapiens GN=TSPAN6 PE=1 SV=1	1.04	0.0717	9
TSN9_HUMAN	Tetraspanin-9 OS=Homo sapiens GN=TSPAN9 PE=1 SV=1	1.58	<0.0001	2
TTL12_HUMAN	Tubulin--tyrosine ligase-like protein 12 OS=Homo sapiens GN=TLL12 PE=1 SV=2	1.09	0.0538	11
TTYH3_HUMAN	Protein tweety homolog 3 OS=Homo sapiens GN=TTYH3 PE=1 SV=3	1.36	0.16	13
U2AFL_HUMAN	U2 small nuclear ribonucleoprotein auxiliary factor 35 kDa subunit-related protein 1 OS=Homo sapiens GN=ZRSR1 PE=2 SV=2	0.075	<0.0001	2
UB2G1_HUMAN	Ubiquitin-conjugating enzyme E2 G1 OS=Homo sapiens GN=UBE2G1 PE=1 SV=3	0.75	0.0569	10
UB2L3_HUMAN	Ubiquitin-conjugating enzyme E2 L3 OS=Homo sapiens GN=UBE2L3 PE=1 SV=1	0.62	0.0489	78
UB2L6_HUMAN	Ubiquitin/ISG15-conjugating enzyme E2 L6 OS=Homo sapiens GN=UBE2L6 PE=1 SV=4	1.94	0.1247	3
UB2V1_HUMAN	Ubiquitin-conjugating enzyme E2 variant 1 OS=Homo sapiens GN=UBE2V1 PE=1 SV=2	0.92	0.0976	3
UBA5_HUMAN	Ubiquitin-like modifier-activating enzyme 5 OS=Homo sapiens GN=UBA5 PE=1 SV=1	0.93	0.18	21
UBC12_HUMAN	NEDD8-conjugating enzyme Ubc12 OS=Homo sapiens GN=UBE2M PE=1 SV=1	0.68	0.0699	28
UBE2K_HUMAN	Ubiquitin-conjugating enzyme E2 K OS=Homo sapiens GN=UBE2K PE=1 SV=3	0.71	0.0946	61
UBE2N_HUMAN	Ubiquitin-conjugating enzyme E2 N OS=Homo sapiens GN=UBE2N PE=1 SV=1	0.84	0.1223	70
UBE2T_HUMAN	Ubiquitin-conjugating enzyme E2 T OS=Homo sapiens GN=UBE2T PE=1 SV=1	0.74	0.0511	8
UCRI_HUMAN	Cytochrome b-c1 complex subunit Rieske, mitochondrial OS=Homo sapiens GN=UQCRCF1 PE=1 SV=2	1.05	0.1373	12
UFC1_HUMAN	Ubiquitin-fold modifier-conjugating enzyme 1 OS=Homo sapiens GN=UFC1 PE=1 SV=3	0.99	0.0823	19
VAMP3_HUMAN	Vesicle-associated membrane protein 3 OS=Homo sapiens GN=VAMP3 PE=1 SV=3	1.78	2.5892	12
VAMP4_HUMAN	Vesicle-associated membrane protein 4 OS=Homo sapiens GN=VAMP4 PE=1 SV=2	1.1	0.1435	18
VAMP5_HUMAN	Vesicle-associated membrane protein 5 OS=Homo sapiens GN=VAMP5 PE=1 SV=1	1.19	0.0953	40
VAMP7_HUMAN	Vesicle-associated membrane protein 7 OS=Homo sapiens GN=VAMP7 PE=1 SV=3	1.46	0.0635	37
VATA_HUMAN	V-type proton ATPase catalytic subunit A OS=Homo sapiens GN=ATP6V1A PE=1 SV=2	0.95	0.0602	20
VDAC3_HUMAN	Voltage-dependent anion-selective channel protein 3 OS=Homo sapiens GN=VDAC3 PE=1 SV=1	1.05	0.1134	32
VIGLN_HUMAN	Vigilin OS=Homo sapiens GN=HDLBP PE=1 SV=2	1.06	0.203	3
VWF_HUMAN	von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=3	1.61	0.51	17
ZBED5_HUMAN	Zinc finger BED domain-containing protein 5 OS=Homo sapiens GN=ZBED5 PE=1 SV=2	33.1	8.2681	5
ZDH13_HUMAN	Palmitoyltransferase ZDHHC13 OS=Homo sapiens GN=ZDHHC13 PE=2 SV=3	1.16	0.1187	10
ZN426_HUMAN	Zinc finger protein 426 OS=Homo sapiens GN=ZNF426 PE=2 SV=1	1	0.0177	2
ZNT1_HUMAN	Zinc transporter 1 OS=Homo sapiens GN=SLC30A1 PE=1 SV=3	0.85	<0.0001	4