## <u>Supplementary Table 1 - Proteins identified from the Lysosomal Integral-membrane protein fraction: Peptide Details</u>

1. Metabolism	Accession	Calculated MW	1D-gel MW Fraction (approx kDa)	Intepreted Spectra		Abundance factor
Aldehyde dehydrogenase 3-A2	13929028	54.5	55 FT	2	2 IAFGGETDEATR	36.7
apyrase	21426787	45.6	65 250mM	2	YIAPTILTDVDPNSK 2 QVGALVPTHGFSSFK AVPWVILSDGDGAVEK	43.9
Arachidonic acid epoxygenase	13929204	57.1	55 FT	4	4 SLDPANPR ACVGESLAR IEEEKDNLK VQEEAWCLVEELQK	70.1
aryl sulfotransferase	1091600	34.2	50 250mM	2	1 (K)CPGVPSGLE TLEETPAPR(L) 955.57(2+), (1142.57)SP(1496.76), 37	29.2
ATP synthase alpha subunit	6729934	55.3	40 250mM	8	4 TGAIVDVPVGDELLGR EVAAFAQFGSDLDAATQQLLSR ILGADTSVDLEETGRVLSIGDGIAR EVAAFAQFGSDLDAATQQLLSRGVR	72.3
ATP synthase f0 beta subunit	19705465	28.9	40 250mM	2	2 HYLFDVQR LGLIPEEFFQFLYPK	69.2
ATP synthase F1 complex O subunit	20302061	23.4	35 80mM	3	3 VGQLLKDPK VSLAVLNPYIK LDQVEKELLR	128.2
ATP synthase gamma Chain	39930503	32.9	45 250mM	4	3 HLIIGVSSDR VYGTGSLALYEK THSDQFLVSFK	91.2
Betaine-homocysteine methyltransferase	13540663	45.4	46 250mM	34	5 EATTEQQLR AIAEELAPER VNEAACDIAR AGPWTPEAAVEHPEAVR LNAGEVVIGDGGFVFALEKR	110.1
carbamoyl-phosphate synthetase 1	8393186	165	55 80mM	3	2 IPRWDLDR GQNQPVLNITNR	12.1
Catalase	6978607	60	70 250mM	3	2 LAQEDPDYGLR NFTDVHPDYGAR	33.3
CYP2A1	6978741	56.5	46 FT	4	3 YLPGPQQQIIK DVYSSITQLSER EALVDQAEEFSGR	53.1
CYP2C13	25453406	56.3	46 FT	3	1 (R)QSLTNFSK(T) 462.66(2+), (381.21)NTLS(796.42), 54	17.8
CYP2C22	19924039	56.7	70 250mM	22	2 YIDFVPIPLPR IQEEVVYLLEALR	35.3
CYP2C29	9506529	57.5	55 FT	1	1 (R)ICAGEALAR(T) 480.68(2+), (430.28)EGAC(847.41), 40	17.4
CYP2D2	6978747	56.8	55 FT	2	1 (K)AVSNVIA SLVYAR(R) 681.77(2+), (708.40)AIVNS(1192.67), 41	17.6
CYP4A3	28461155	59.2	65 250mM	7	2 ELSSPVTFPDGR HSHAYLPFSGGAR	33.8
Cytochrome b5	11560046	15.3	25 80mM	11	5 YYTLEEIQK TYIIGELHPDDR FLEEHPGGEEVLR	326.8

					ELSKTYIIGELHPDDR	
dopa/tyrosine sulfotransferase	11968092	34.9	45 250mM	1	EQAGGDATENFEDVGHSTDAR 1 (M)GTAEDVFRK(D) + N-Acetyl (Protein)	28.7
dopa/tyrosine sunotransierase	11300032	54.5	43 23011IVI	'	532.84(2+), (450.28)VDEA(864.46), 34	20.1
Epoxide hydrolase 1	6978813	47.8	46 FT	7	4 ASPPLEGSR	83.7
					ELEDGGLER LISYSYMER	
					SFYTMTPLLGQR + Oxidation (M)	
glyceraldehyde-3-phosphate dehydrogenase	8393418	36	40 80mM	5	1 (R)GAAQNIIPASTGAAK(A)	27.8
	4450000			_	685.38(2+), (702.38)IIN(1042.59), 41	/
L-gulono-gamma-lactone oxidase	11560006	51.2	46 FT	2	2 NADVFQAAR GDDILLSPCFQR	39.1
Peroxiredoxin 1	16923958	22.3	35 40mM	4	3 IGHPAPSFK	134.5
		-			ATAVMPDGQFK + Oxidation (M)	
	0.40==.4==			_	QITINDLPVGR	
Retinol dehydrogenase type III	31377477	35.9	25 FT	6	5 ELTYFGVK TNVTNMER	139.3
					VLAACLTEK	
					VAIIEPGGFK	
					VVNIASTMGR + Oxidation (M)	
similar to NADH dehydrogenase (ubiquinone)	34858473	42.6	50 250mM	6	4 EAGVER	93.9
1 alpha subcomplex, 9					NFDFEDVFVNIPR SSVSGVVATVFGATGFLGR	
					LMGDLGQLIFLEWDAR	
2. Immunity						
CD1 antigen	5420461	38.9	55 40mM	12	7 DIKEIVK	179.9
					FHGTSWQK	
					GDQEQGGTHR	
					QEKPVAWLSR GLLEAGKPDLEK	
					VPEAPSWLDLPIK	
					TDSVVWLGDLQTHR	
Fc receptor	15375322	40.4	55 40mM	6	6 LLGHLER	148.5
					SKEQLFLEAIR ESEFLLTSCPER	
					QNLEWKEPPSMR	
					KESEFLLTSCPER	
					ARPGNSGSSVLTCAAFSFYPPELK	
macrophage expressed gene 1	12018298	74.4	40 80mM	7	2 GITNHLVAIDR	26.9
MHC class I alpha chain	940825	39.3	46 FT	1	VQSFGGIPFYPGITLETWQK 1 (R)DSSQSSDVSLPDCKA(-)	25.4
Will C class I alpha chain	340023	39.3	4011	ı	798.22(2+), (590.26)LSV(889.45), 44	25.4
polymeric immunoglobulin receptor	27151742	86	120 80mM	15	3 SSVTFECDLGR	34.9
					DAPEEAMESSVR	
aimilar ta lah 6 protain	24025207	70.0	20. 20mM	7	EIQNAGDQAQENR	25.0
similar to Igh-6 protein	34935297	79.9	30 80mM	7	2 HPPAVYLLPPAR GFSPADIFVQWLQR	25.0
Similar to Immunoglobulin joining chain	34876693	26.4	20 40mM	6	3 CYTAMVPLR	113.6

## IIPSPEDPNEDIVER

3. Biosynthesis

<u>3. Biosyntnesis</u>						
Alpha-mannosidase II	34877940	87	120 FT	36	15 LYQSDPSK    AGFSHMLIQR    LFQSLNSLEK    WWDIIDNPK    VLLAPLGDDFR    NIIQLSAQEPR    TAEILYHLALK    IIGDSAFLLILK    KNIIQLSAQEPR    LLAENNEIISNIR    FLSSPHYTTLTEAR    NLGLFQHHDAITGTAK    IQFGTLSDYFDALEK    RNLGLFQHHDAITGTAK    YGCPWGVPPEAISPGNVQSR	172.4
Core 1 beta 1,3-Galactosyltransferase	12621124	42.7	35 FT	10	5 DPTGK FVDAFKTEK YQPALPENILK QGYMSGGAGYVLSK VLCWVMTSPQNLEK	117.1
Elongation factor Tu, similar to RIKEN cDNA 2300002G02	34859187	49.8	70 250mM	2	1 (K)AEAGDNLGALVR(G) 593.31(2+), (387.27)AGLN(742.46), 43	20.1
eukaryotic translation elongation factor 1 alpha	15805031	50.4	60 250mM	4	2 NVSVKDVR IGGIGTVPVGR	39.7
Heat shock 70kD protein 5, GRP78, BiP	25742763	72.2	65 250mM	11	6 ELEEIVQPIISK TWNDPSVQQDIK ITPSYVAFTPEGER IINEPTAAAIAYGLDK IINEPTAAAIAYGLDKR IEIESFFEGEDFSETLTR	83.1
Microsomal glutathione S-transferase 1	19705453	17.5	15 FT	7	2 MMFLSSATAFQR IYHTIAYLTPLPQPNR	114.3
N-acetylglucosaminyltransferase I	13540685	51.8	55 250mM	16	6 GIVTFQFR WALGQIFNK QPDLSNIAVQPDHR LNQQFVPFTQLDLSYLQR EAYDRDFLAQVYGAPQLQVEK FIKLNQQFVPFTQLDLSYLQR	115.8
N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1; heparan sulfate-N-deacetylase/N-sulfotransferase	13242253	101	70 250mM	8	5 FLHSWTNLR ALFDTQNELR VLTILINPADR LQTLPPVQLAQK	49.5
ppGaNTase-T2	46877109	65	67 FT	3	3 SGQDPYAR QGNPVAPIK NVPYGNIQSR	46.2
Protein disulfide isomerase (ER60)	91897	57	75 80mM	1	1 (R)LAPEYEAAATR(L) 596.32(2+), (347.20)AAEYEP(1007.48), 89	17.5

3/

Ribophorin I	6981486	68.3	30 80mM	1	1 (R)ASSFVLALEPELESR(L)	14.6
ribosomal protein L13	13592055	24.2	40 250mM	7	824.43(2+), (730.37)ELAL(1156.62), 32 3 TIGISVDPR VDTWFNQPAR LATQLTGPVMPIR	124.0
ribosomal protein L6	16758864	33.6	40 250mM	1	1 (R)YYPTEDVPR(K) 570.30(2+), (272.17)VDETP(813.41), 25	29.8
ribosomal protein L7, cytosolic [validated] - rat	11383729	30.3	40 250mM	7	2 KVLQLLR IALTDNSLVAR	66.0
ribosomal protein S3, cytosolic [validated] - rat	70850	26.8	40 250mM	3	1 (R)ELAEDGYSGVEVR(V) 712.43(2+), (403.23)VGSYGDEA(1181.54), 69	37.3
ribosomal protein S3a, cytosolic [validated] -	8394221	30.1	40 250mM	3	1 (R)VFEVSLADLQNDEVAFR(K) 976.62(2+), (1091.55)DALSVE(1705.84), 66	33.2
ribosomal protein S4	227229	29.8	35 250mM	6	5 LSNIFVIGK GIPHLVTHDAR TIRYPDPLIK HPGSFDVVHVK ECLPLIIFLR	167.8
ribosomal protein S6	6677809	28.8	40 250mM	3	1 (R)MATEVAADALGEEWKGYVVR(I) 732.45(3+), (1036.56)EGLA(1406.74), 44	34.7
Sialyltransferase 1 (ST6Gal1)	115446	47.1	55 FT	60	13 EFQMPK FSVEALR CAVVSSAGSLK VSYKGPGPGVK EIDNHDAVLR TDVCYYHQK LMNSQLVTTEK GSDYEALTLQAK LMNSQLVTTEKR VAMGSASQVVFSNSK FNGAPTDNFQQDVGSK HLNEGTDEDIYLFGK	276.0
Sialyltransferase 4A (ST3Gal1)	6677957	39.3	46 FT	6	2 APTVGFEADVGSR CAVVGNSGNLK	50.9
Sialyltransferase 8 (GT3 alpha 2,8-sialyltransferase) C	6981540	44.3	55 FT	1	1 (K)ENIFTTPK(Y) 475.18(2+), (244.17)TTFI(706.41), 55	22.6
similar to 60S RIBOSOMAL PROTEIN L3 (L4)	38454246	52.3	40 250mM	3	1 (R)HGSLGFLPR(K) 492.28(2+), (589.35)LSG(846.48), 34	19.1
similar to 60S ribosomal protein L7a (Surfeit locus protein 3) (PLA-X polypeptide)	34853132	33.7	40 250mM	4	3 HWGGNVLGPK  AGVNTVTTLVENK  LKVPPAINQFTQALDR	89.0
similar to 60S ribosomal protein L8	27685597	28.3	35 250mM	5	3 DIIHDPGR AVVGVVAGGGR VVFRDPYR	106.0
Similar to Heparan sulfate 2-sulfotransferase	34860929	42	46 250mM	3	2 FGDDYRPGLR LVSYYYFLR	47.6
similar to ribosomal protein S8	38049330	24.4	30 250mM	8	2 QWYESHYALPLGR IIDVVYNASNNELVR	82.0
similar to Vesicular integral-membrane protein VIP36 precursor	27682691	40.7	50 250mM	19	6 LFQLTVER DNVDDPTGNFR	147.4

					TPEEESIDWTK NRDHDTFLAVR LFQLTVERTPEEESIDWTK LPTGYYFGASAGTGDLSDNHDLISIK LVPGPVFGSKDNFHGLAVFLDTYPNDETTER	
UDP glycosyltransferase 2 family, polypeptide	13928718	61.4	55 FT	8	1 TPATLGPNTR LLDVWTYELPR	16.3
UDP-glucuronosyltransferase 2 family, member 5	34876712	61	55 FT	1	1 (K)IPATLGPNTR(V)	16.4
					520.23(2+), (487.26)GLTAP(926.51), 52	
4. Membrane receptors/Sig	naling a	nd Cell	adhesion			
Asialoglycoprotein receptor 1	7705290	33.4	35 20mM	10	3 ALTTQGER LVESQLEK WVDGTDYETGFK	89.8
Asialoglycoprotein receptor 2	8392926	35.5	67 40mM	5	2 HFPLDLR WVDGTEYR	56.3
carcinoembryonic antigen-related cell adhesion molecule	13929060	50.7	82 FT	5	2 GTTLNPDSEIAR ELGSVTLTCFSK	39.4
CD59	6978635	14.4	15 FT	2	1 (R)CCQADLCNK(S) 584.62(2+), (421.19)LDAQ(848.39), 37	69.4
cell surface antigen RB13-6 - rat	1363274	100.9	60 80mM	7	2 IATLLQWLDLPK NIPQDFFTFNSEEIVR	19.8
E-Selectin ligand, Golgi apparatus protein 1	6677905	137	160 FT	60	21 TMLQCLK LDPALQDK NSELMDPK + Oxidation (M) FCPEADSK EAEEKEPK IQVSELCK CNVENLPR ECAEEPVGK GGAGPGGTGGGWK MVEDCEHR MACKEDVLK IQVSELCKK RFCPEADSK HHCAAITPGR QITQNTDYR LSSDCEDQIR FCENTQAGEGR IIIQESALDYR ALNEACESVIQTACK QVSSECQGEMLDYR LGEKDAHSQGEVVSCLEK	153.3
guanine nucleotide-binding protein alpha 11	13591951	42.2	60 250mM	1	1 (R)IATVGYLPTQQDVLR(V) 837.48(2+), (956.52)LYGV(1388.75), 36	23.7
Harvey rat sarcoma oncogene, subgroup R	6677819	23.9	20 FT	1	1 (K)ICTVDGIPAR(L) 551.21(2+), (513.31)DVT(828.46), 37	41.8
Lipoprotein receptor-related protein	34865759	523	250 80mM	14	6 GVAGAQPTVTLLR TTLLAGDIEHPR	11.5

					AALSGANVLTLIEK HTVDQTRPGAFER DGILFWTDWDASLPR	
OX47	111503	34	46 FT	2	IFFSDIHFGNIQQINDDGSGR 2 GNINVEGPPR VLQEDTLPDLQMK	58.8
p21/H-Ras-1 (c-H-ras)	131873	21.6	30 80mM	4	1 (R)QGVEDAFYTLVR(E) 699.37(2+), (274.19)LTYFA(869.49), 56	46.3
phosphatidylinositol 4-kinase type II	16758554	54.7	60 250mM	5	4 IIAVFKPK LVVLDYIIR IYQGSSGSYFVK NDFPEDPEFEVVVR	73.1
Progesterone receptor membrane component	11120720	24.6	25 80mM	3	2 KFYGPEGPYGVFAGR IVRGDQPGASGDNDDDEPPPLPR	81.3
protein tyrosine phosphatase, receptor type, F	9507013	212	150 80mM	2	2 TGEQAPSSPPR TDEDVPSGPPR	9.4
Purinergic receptor P2X4	13928806	44.1	67 FT	8	4 AASLCLPR NNIWYPK YVEDYEQGLSGEMNQ TCEVAAWCPVENDVGVPTPAFLK	90.7
Rap2B	13386338	20.7	30 80mM	1	1 (K)ASVDELFAEIVR(Q) 674.85(2+), (387.27)EAFLED(1091.57), 35	48.3
Rras2, related RAS viral (r-ras) oncogene	13399308	23.6	35 80mM	1	1 (R)QVTQEEGQQLAR(Q) 693.86(2+), (672.38)EEQT(1159.57), 47	42.4
similar to Cux/CDP(1B1); Cux/CDP	34873366	157	55 250mM	2	1 (R)EIAQLVEDVQR(L) 650.34(2+), (745.38)LQA(1057.56), 34	6.4
similar to GTP-binding regulatory protein alpha	34875240	45.3	55 250mM	1	1 (R)VFLQYLPAIR(A) 610.38(2+), (456.29)LYQL(973.58), 33	22.1
similar to MEK binding partner 1	34860783	13.6	25 40mM	3	2 DGVPVIK ADDLKR + N-Acetyl (Protein)	147.1
similar to pituitary tumor-transforming gene 1 protein-interacting protein	34852416	17.2	20 FT	13	4 SCEECLR ACLDYPVR ILPPASLCK ACLDYPVRK KILPPASLCK	232.6
similar to ras-related C3 botulinum toxin substrate 1 isoform Rac1b	34870449	52.7	25 80mM	7	4 TVFDEAIR AVLCPPPVK AVLCPPPVKK LTPITYPQGLAMAK HHCPNTPIILVGTK	75.9
similar to RIKEN cDNA 1300006M19	34870394	65.3	35 250mM	1	1 (R)NVVEQFNPGLR(N) 636.92(2+), (442.28)NFQEV(1059.56), 39	15.3
similar to Transferrin receptor protein 2 (TfR2)	34871536	89.5	65 250mM	4	3 SAVGTAILLELVR GRLPAVVLAVAQLAGQLLIR HIFLGQGDHTLGALVEHLR	33.5
Toll-like receptor 3	33438238	103	67 40mM	20	10 YLSLKR LTPHSFR SNPFKNQK LDLSSNPLK YNVADCSHLK LEPELCQILPLLK	97.1

DVGNDAFSWLPHLK SLIKLDLSHNGLSSTK LGTWVQLENLQELLLAK YSQLALLDAGFNSISKLEPELCQILPLLK

5. Molecular transport						
ATP-binding cassette, sub-family B (MDR/TAP), member 6	18034785	93.8	175 80mM	5	3 SHIGVVPQDTVLFNDTIANNIR TILKAPDIILLDEATSALDTSNER VTAGDSEIQAAAQAAGIHDAILSFPEGYETQVGER	32.0
ATP-binding cassette, sub-family C (CFTR/MRP), member 2; Canalicular multispecific organic anion transporter; multidrug resistance associated protein 2	6978669	174	175 80mM	11	5 ALELAHLR YLGGDDLDTSAIR LTIIPQDPILFSGSLR ILESAGGQIIIDGIDVASIGLHDLR SFVSGLQLGLLSEVTEGGDNLSIGQR	28.7
Chloride ion pump-associated 55 kDa protein	21489987	56.7	50 80mM	1	1 (K)IAIVGAGIGGTSSAYYLR(K) 885.01(2+), (960.48)GGIGAG(1372.69), 30	17.6
Niemann Pick C1	6679104	145	250 80mM	34	4 ALGLLCGR CRPLTPEGK DVEAPSSNEK LQEETLDQQLGR	27.6
Peptide/histidine transporter	21426791	62.6	250 FT	1	1 (R)SGEGLGVFQQSSK(H) 662.30(2+), (449.24)QFVGL(993.54), 32	16.0
similar to 2810423E13Rik protein	34856883	62.5	175 250mM	2	2 SYIAGATSLQER GLVGFGAGNVAVVR	32.0
similar to Calcium-binding mitochondrial carrier protein Aralar2 (Solute carrier family 25, member 13) (Citrin)	7657583	74.8	67 80mM	16	8 LQVAGEITTGPR GLLPQLLGVAPEK YLNIFGESQPNPK ITLPAPNPDHVGGYK SSPQFGVTLLTYELLQR IAPLEEGMLPFNLAEAQR FGLGSIAGAVGATAVYPIDLVK HLTYAEFTQFLLEIQLEHAK	107.0
similar to MLN64 N-terminal domain homolog (STARD3 N-terminal like protein)	27686679	26.8	25 FT	1	1 (R)LLLVQDASER(A) 572.32(2+), (462.23)DQVL(917.47), 30	37.3
Similar to Proteolipid protein 2	46485405	16.8	15 FT	1	1 (R)HTAAPTDPTDGP(-) 590.15(2+), (116.07)GD(288.12), 33	59.5
similar to putative protein, with at least 9 transmembrane domains, of eukaryotic origin (43.9 kD) (2G415)	34863028	39.6	170 FT	8	1 (R)QSDSSVEPR(Q) 502.69(2+), (587.32)SDS(876.41), 44	25.3
Similar to Solute carrier 31, member 1	19424310	21.2	25 FT	1	1 (R)KSQVSIR(Y) 409.24(2+), (375.24)VQS(689.39), 47	47.2
similar to Tm9sf1 protein	34874167	90.3	35 250mM	2	2 SDELLGLTHTYSVR QAIEELYYFEFVVDDLPIR	22.1
similar to transmembrane 9 superfamily	34876089	76.5	250 FT	2	2 TNQIPR FCNPGFPIGCYITDK	26.1
similar to Transmembrane 9 superfamily protein member 4	34859018	75.5	30 250mM	10	3 FEVIPQSIR ITEEYYVHLIADNLPVATR LVAERITEEYYVHLIADNLPVATR	39.7
solute carrier family 25 (mitochondrial phosphate carrier; adenine nucleotide	20806141	39.8	170 80mM	2	1 (R)IQTQPGYANTLR(E) 681.42(2+), (794.42)PQT(1120.58), 46	25.1

translocator), member 3; phosphate carrier solute carrier family 25, member 4;	32189355	33.1	25 FT	2	2 TAVAPIER	60.4
mitochondrial adenine nucleotide transloca solute carrier family 29 (nucleoside	tor 51036680	52.2	170 FT	3	YFPTQALNFAFK 2 AVHTPPLGPILK	38.3
transporters), member 3 vATPase 100kDa a3 subunit	7140942	94.1	250 80mM	10	DAPSTSSVAPASR 3 IQEETDRLAQELR	31.9
		•		. •	FTSSFQGIVDAYGVGR	00
vATPase Subunit B	17105370	56.9	55 FT	2	DLPTVQQALQSGSSEEGVSAVAHR 2 TPVSEDMLGR	35.1
	0055400				AVVQVFEGTSGIDAK	
vATPase Subunit D(V0)	3955100	40.7	30 80mM	55	9 MVVEFR + Oxidation (M) SIAELVPK	221.1
					FFEHEVK	
					LKEQECR	
					ADDYEQVK AKIDNYIPIF	
					LYPEGLAQLAR	
					NVADYYPEYK	
vATDaga Cubunit D(VA)	40786463	20.2	20.250-14	7	LLFEGAGSNPGDK 3 VNAIEHVIIPR	100.4
vATPase Subunit D(V1)	40700403	28.2	30 250mM	7	RVNAIEHVIIPR	106.4
					TLAYIITELDER	
vATPase Subunit E	1718091	26.1	30 80mM	3	1 (R)YQVLLDGLVLQGLYQLLEPR(M)	38.3
vATPase Subunit G	27714615	13.8	20 250mM	1	777.46(3+), (272.17)ELLQYLGQLV(1428.82), 73 1 (M)ASQSQGIQQLLQAEKR(A) + N-Acetyl (Protein)	72.5
VATPase Suburiit G	277 14013	13.0	20 250HIM	ı	913.99(2+), (303.21)EAQLLQQ(1113.64), 58	72.5
vATPase Subunit H	14318722	56.2	55 FT	3	2 GAVDAAVPTNIIAAK	35.6
Mallace described as the standard A	0755000	00.7	05.0014	4.4	QLQSEQPQTAAAR	100.0
Voltage-dependent anion channel 1	6755963	30.7	35 80mM	11	4 VTQSNFAVGYK LTFDSSFSPNTGK	130.3
					AVPPTYADLGKSAR + N-Acetyl (Protein)	
					WTEYGLTFTEKWNTDNTLGTEITVEDQLAR	
6. Membrane structure ar	nd Linid R	afte				
CD36 antigen-like 2 (LIMPII)	16758914	54.4	82 40mM	116	10 IVEWNGK	183.8
					AVDQTIEK	
					EIIEAMLK + Oxidation (M) FQINTYVK	
					RFQINTYVK	
					LDDFVETGNIR	
					GQGSTDEGTADER	
					KLDDFVETGNIR NQSVGDPTVDLIR	
					DETLYIFPSDFCR	
DAMP-1 protein	37693510	19.9	25 FT	10	2 LNQELENLR	100.5
	40404440	40.4	70.00 11		VSQTQEQQAR	400.0
Flotillin-1	13124118	40.1	70 80mM	54	20 QQIEEQR VQVQVVER	498.8
					SPPVMVAGGR	
					VRKPAEAER	ī
						· ·

					GEAEAFAVGAR ATYDIEVNTR ISLNTLTLNVK KATYDIEVNTR MRGEAEAFAVGAR HGVPISVTGIAQVK AQADLAYQLQVAK AQQVAVQEQEIAR VFVLPCIQQIQR RAQADLAYQLQVAK AQQVAVQEQEIARR DIHDDQDYLHSLGK LTGVSISQVNHNKPLR QQIEEQRVQVQVVER VTGEVLDILSRLPESVER TEAEIAHIALETLEGHQR	
Flotillin-2	13124119	47.4	46 FT	31	15 ISAPLTK AFELQK TQTAVVQR EVAAPDVGR LKAEAYQK IQQIAEGEK SAFSEEVNIK DADIGVAEAER QVLLAQAEAEK IQQIAEGEKVK QIAVEAQEILR ISLEIMTLQPR + Oxidation (M) VDEIVVLSGDNSK MALVLEALPQIAAK TAEAQLAYELQGAR	316.5
Golgi-associated protein GCP360	20302065	365	250 FT	20	9 KLQAALISR LQVEAQELK LTAALSSSQKR NTLSEETRNLK ILLDDTQSEAAR AAAEEELQALVQR FGDAIQTKEEEVR SSSQTQILPTQYQR DLNEVITIKDSQQR	24.7
LAMP1	6981144	42.2	100 FT	213	10 CVSDIR APALFEVK SHAGYQTI AFNINPSDK ALQASVGNSYK GPDTVDSTTDIK CNSEEHIFVSK YSGTCGAQLVTLK ALALNVFSVQVQAFR AFNINPSDKYSGTCGAQLVTLK	237.0
LAMP2	40254785	45.6	100 FT	49	8 HEQVCK	175.4 🕹

Prohibitin	6679299	29.8	25 80mM	15	TFPGAVPK EQVVSVSR HHTGYEQF YLDFIFAVK TFQINTFNLK YLDFIFAVKNEK GILTVIIPVGSQLPLGVIFK 9 AVIFDRFR QVAQQEAER QVSDDLTER FVVEKAEQQK IYTSIGEDYDER ELVSRQVSDDLTER NITYLPAGQSVLLQLPQ AAELIANSLATAGDGLIELR AAIISAEGDSKAAELIANSLATAGDGLIELR	302.0	
similar to band 7 protein (35.3 kD) (4N53)	34863101	39.4	60 80mM	5	1 (R)ISEIEDAAFLAR(E)	25.4	
Similar to Macrosialin (CD68)	34870966	35.3	82 FT	44	667.89(2+), (648.38)DEIES(1221.61), 51 3 LQAAQLPDK ILYLTQGGK ILYLTQGGKK	85.0	
similar to MAL2A	32693285	19.4	170 80mM	9	1 (M)SAGGAAVPPPNPAVSFPAPR(I) + N-Acetyl (Protein) 1000.11(2+), (1152.62)PPPVA(1613.88), 39	51.5	
B-cell associated protein 37; similar to repressor of estrogen receptor activity	34858436	33.3	60 80mM	33	8 LGLDYEER FNASQLITQR VLPSIVNEVLK ESVFTVEGGHR LLLGAGAVAYGVR IPWFQYPIIYDIR IGGVQQDTILAEGLHFR IYLTADNLVLNLQDESFTR	240.2	
Stomatin (Erythrocyte band 7 integral membrane protein 7.2b)	7710018	31.5	25 80mM	27	8 LLAQTTLR AMAAEAEAAR + Oxidation (M) DVKLPVQLQR VIAAEGEMNASR YLQTLTTIAAEK TISFDIPPQEVLTK EASMVITESPAALQLR	254.0	
7. Hydrolyases/Co-factors 5' nucleotidase, ecto	11024643	64.3	40 80mM	4	2 VIYPAVEGR	31.1	
beta-galactosidase	192185	73.2	65 FT	2	YGQSTGEFLQVGGIHVVYDISR 2 FYWEDR	27.3	
beta-glucuronidase	8393510	73.5	60 250mM	3	QYFGYVLYR 2 LVQSGPLTTFR	27.2	
Cathepsin F	34861419	24	25 40mM	6	LLDEDGKIVAR 3 IAAWLAQK ACMGGLPSNAYTAIK	125.0	
Cathepsin L	67650	38.2	25 40mM	2	GSGACGVNTMASSAVVN + Oxidation (M) 2 GCVTPVK	52.4	44

					ENGGLDSEESYPYEAK	
Cathepsin Y	34328540	34.8	25 80mM	1	1 (R)VGDYGSLSGR(E)	28.7
Discostidulo costido o DV	6978773	00.7	400.00mM	0.7	505.77(2+), (319.17)LSGYDG(911.42), 29 12 AGAVNPTVK	125.2
Dipeptidylpeptidase IV	09/0//3	88.7	100 80mM	87	ISLQWLR	135.3
					TVWIPYPK	
					TYTLADYLK	
					VLEDNSALDK	
					GPGLPLYTLHR	
					WEYYDSVYTER	
					LGTLEVEDQIEAAR	
					HSYTASYSIYDLNKR	
					FRPAEPHFTSDGSSFYK	
					LNWATYLASTENIIVASFDGR	
					ADAAFRLNWATYLASTENIIVASFDGR	
GM2 ganglioside activator protein	48976085	21.9	20 40mM	3	2 EVAGFWVK	91.3
					SLTLQPDPIVVPGDVIVSAEGK	
kidney aminopeptidase M; Leucine	13591914	109	150 80mM	4	2 VVATTQMQAADAR	18.3
arylaminopeptidase 1					ALGDTPAPNIDTTELVER	
Lysosomal Acid Phosphatase	8392842	48.7	67 80mM	22	9 QEVYVR	184.8
					HGDRSPVK	
					LTEPVIPK	
					FVTLLYR FPLGPCPR	
					CPLQDFLR	
					WPQGFGQLTK	
					LLKFPLGPCPR	
					KAPWPLTLPGCPHR	
Nicastrin	27819651	79	100 FT	28	13 VVVAATR	164.6
Modelin		70	100 1 1	20	EPGAVSY	101.0
					LKGETSR	
					APDVTTLPR	
					LLYGFLVR	
					ADVLFVAPR	
					ALADVATVLAR	
					ADVLFVAPREPGAVSY	
					LENIDSFVELGQVALR	
					WVLTDGPNPPYMVLLEGK	
					NQVEDLLVTLEQSGADTPQVVLSR	
					SFFWNVAPGAESAVASFVTQLAAAEALHK	
	13928880	50	00.050-14	•	TLWNELGNGLAYDDFSFPIFLLEDENETK	40.0
plasma glutamate carboxypeptidase	13920000	52	90 250mM	2	1 (R)LGLLVDTVGPR(L) 570.36(2+), (529.31)DVLLG(1026.59), 42	19.2
Prosaposin	6981424	62.9	15 FT	5	2 LVTDIQTAVR	31.8
Позарозін	0001424	02.9	13 1 1	3	ACSLLPAPASTK	31.0
Protective protein for beta-galactosidase	6679437	54.4	20 80mM	6	3 FLNKEPY	55.1
. 15t55tive protein for beta galactosidase	33.313.	O 1T	20 00111111	J	AAFTMFSR + Oxidation (M)	55.1
					RPWLVDYGESGEQVAGFVK	
X-prolyl aminopeptidase (aminopeptidase P) 2	16924020	76.5	100 80mM	8	6 LVFPAATSGR	78.4
membrane-bound	•	-	-	-	ENIGPELQR	-
					VLMGNIDLSR	

TVHWGTPTAFQK NLIDVSLLSPEQLQYLNR SSDIPYNPFFYSYTLLTDSSIR

8.	S	e	cr	<u>e</u>	te	d
Alpl	าล-	1-I	nh	ibi	tor	Ш

o. occicica							
Alpha-1-Inhibitor III	12831225	165	250 FT	4	2 VTASPQSLCGLR	12.1	
Alaba 2 IIC algorithms (fatigin)	6079477	20.0	67 40mM	0	VQTVPLTCNNPK 7 CNLLAEK	100.4	
Alpha-2-HS-glycoprotein (fetuin)	6978477	38.8	67 40mM	8	HLLQGFR	180.4	
					LGGEEVSVACK		
					QILNQIDKVK		
					VGQPGDAGAAGPVAPLCPGR		
					HAFSPVASVESASGEVLHSPK		
					AQNVPFPVSTLVEFVIAATDCTGQEVTDPAK		
Apolipoprotein A-V	18034777	41.4	60 250mM	25	12 LAQDPEGIR	289.9	
, ponpoprotom , t			00 20011111		LAQDPEGIRK	200.0	
					ELFHPYAER		
					SVAPHAVASPAR		
					HQQVGWNLEGLR		
					QLQQELEEVSTR		
					LVTGIGHHVQELHR		
					NLDQLRDELSTFIR		
					QLQQELEEVSTRLEPYMAAK		
					QQLKPYTVELMEQVGLSVQDLQEQLR		
Apolipoprotein b	34863099	539	250 FT	7	4 SPSSSDINK	7.4	
					LQDLQVLGK		
					ITDNDVLIALDSAK		
	470000		45.00.14	4-	IAQDGVSTSATTNLK	077.0	
Apolipoprotein E	1703338	36	15 80mM	47	10 DRLEEVR	277.8	
					LGPLVEQGR LEEVGNQAR		
					LGADMEDLR		
					LQAEIFQAR		
					MEEQTQQIR		
					GRLEEVGNQAR		
					TANLGAGAAQPLR		
					TANLGAGAAQPLRDR		
					ELEEQLGPVAEETR		
Complement component 9	16924006	64.9	15 FT	4	1 (K)GVELSDVKR(C)	15.4	
·					501.68(2+), (402.28)DSLE(846.47), 58		
dermcidin precursor; AIDD protein	16751921	11.3	25 20mM	6	5 KAVGGLGK	442.5	
					ENAGEDPGLAR		
					DAVEDLESVGK		
					SSLLEKGLDGAK		
					LGKDAVEDLESVGK		
Epithelin/granulin precursor	8393493	68.3	15 FT	30	4 CMDEGYCQK	58.6	
					LNTGAWGCCPFTK		
					TQCPDDSTCCELPTGK		
Control Probability and	2440005	00.0	00.0014	00	CDLEVSCPDGYTCCR + Pyro-cmC (N-term camC)	004.0	
ferritin light chain - rat	2119695	20.8	30 80mM	29	8 LVNLHLR	384.6	46

					DDVALEGVGHFFR QNYSTEVEAAVNR	
					ALFQDVQKPSQDEWGK	
					TSQIRQNYSTEVEAAVNR + N-Acetyl (Protein)	
					VAGPQPAQTGVAQASLGEYLFER	
					RVAGPQPAQTGVAQASLGEYLFER	
					ASYTYLSLGFFFDRDDVALEGVGHFFR	
Fibrinogen Gamma-A chain	71829	50.1	80 250mM	3	2 TSTADYAMFR YLQDIYTSNK	39.9
Fibronectin 1	9506703	275	140 80mM	10	4 APITGYIIR	14.5
					ATGVFTTLQPLR	
					WLPSTSPVTGYR	
					VTWAPPPSIELTNLLVR	
inter-alpha-inhibitor H4 heavy chain	9506819	104	140 80mM	6	5 LGDGLVGSR	48.1
					VLGIDYPATR	
					IPAQGGTNINK	
					TTFELIYQELLQR	
B (1) 11: 0 11: 11:	00000405	0.1.0	00.40.14	•	VVEQEGTTPEESPNPDHPR	04.0
Peptidylprolyl isomerase C-associated protein	20806135	64.6	82 40mM	9	4 LVNGASASEGR	61.9
(mama)					SELAVSSELDLLK	
					LASAYGATELQGYCGR AVDQWSTATGASHGDVER	
Pregnancy Zone protein	21955142	168	250 FT	4	4 LLLQEVR	23.8
Fregulaticy Zone protein	21933142	100	230 FT	4	LQDQSNIQR	23.0
					LADLPGNYITK	
					YNILPEAEGEAPFTLK	
Serum Amyloid P	8392903	26.2	20 40mM	2	2 ESETDYVK	76.3
Corum / unyloid i	0002000	20.2	20 10111111	_	SQSLFSYSVNSR	70.0
similar to cellular repressor of E1A-stimulated	34880832	25.1	35 80mM	2	1 (R)FVTHVSDWGSLATISTR(E)	39.8
genes CREG		_0	00 00	_	938.98(2+), (905.51)WDSV(1392.71), 54	33.3
Vitronectin	9507241	55.4	60 250mM	11	3 IYITGSTFR	54.2
					FEDGVLDPDYPR	
					LIQDVWGIEGPIDAAFTR	
9. Unknown/Uncharacterize	<u>ed</u>					
2810022L02Rik protein	15928581	62	45 80mM	1	1 (K)SSGHNKPSEGK(A) + Guanidination (K)	16.1
·					585.32(2+), (938.48)GS(1082.53), 55	
Expressed sequence AV006840	20846843	10.7	25 40mM	7	2 GREPIDV	186.9
					TSALTQGLER + N-Acetyl (Protein)	
hypothetical protein XP_236205	34863318	101	55 20mM	2	2 YEFPDGVDSVIVK	19.8
					EAVVSFQVPLILR	
Mg87 protein	19705543	38.8	30 250mM	2	2 QLQQVGTVSK	51.5
					STWLGVAALGLAAVALGTVAWR	
RIKEN cDNA C730027E14	22122497	34.7	45 80mM	2	1 (R)LLQLACPGTGEADAR(V)	28.8
1.1.1.1.000	04005404	00	40.57	4-	786.42(2+), (873.41)CALQ(1345.62), 34	
similar to Ab2-095	34865464	80	46 FT	15	5 YLGACGR	62.5
					DSGSFLLR CDLLQAMPR	
					ELAQLDQSICK	
					NVYFAQYGEPR	
					HVIIAQIOLIIN	

					CPACFGTSWCR LEALLDECTNPK	
similar to apoptosis related protein APR-3; p18 protein	34862996	21.5	30 FT	10	3 CCLNQK QICQGQK VAAYCEDTSK	139.5
Similar to cDNA 1810037C20	34881760	39.9	20 FT	1	1 (R)IVSGAANVIGPK(I) 563.24(2+), (698.42)AGSV(1012.58), 35	25.1
similar to CG14980-PB	34870407	66.9	55 FT	2	2 MEESLSVVK AAAAAGTGTWAAQEK + N-Acetyl (Protein)	29.9
Similar to Chr14 ORF	34869712	35.6	250 FT	7	3 VCQSPINVEGK CGVCNEATPIK CPCNCLLICK	84.3
similar to E25B protein	27701907	30.8	35 80mM	3	2 YQTIEENIK NLLELLINIK	64.9
similar to FAM3C-like protein	38454280	24.9	20 FT	1	1 (K)TGDVIDTK(Y) 424.65(2+), (248.16)DIVDG(747.39), 37	40.2
similar to grey lethal osteopetrosis; grey-lethal	34853421	46	35 FT	22	2 ALQFQGWAK + Guanidination (K) CAGSLLMADR	43.5
similar to HTGN29 protein; keratinocytes associated transmembrane protein 2	34870715	33.8	46 FT	1	1 (R)LDQNVNEAMPSLK(I) 729.75(2+), (444.28)PMAENV(988.51), 30	29.6
similar to hypothetical protein FLJ38482	34877746	31.2	175 80mM	2	2 LLELATQPAR  LLELATQPART	64.1
similar to Hypothetical protein MGC18837	27719651	21.4	170 80mM	2	1 (R)GLGTEVPGSLQGPDPYR(Q) 872.02(2+), (1089.53)PVE(1414.70), 24	46.7
Similar to hypothetical protein MGC29390	34869210	204	90 250mM	7	5 FLQQVDGQR KPLIKVSGISR LLVSPEGLNIR FLVLFSPEDVR SEDVQGISQQIR	24.5
similar to hypothetical protein MGC40107	27672946	11.8	150 80mM	4	2 AGVGAAFRR + N-Acetyl (Protein) LGALSGAGALSLATYGAHGAQFPDAYGK	169.5
similar to RIKEN cDNA 1100001H23	34858551	68.9	35 80mM	3	3 GDPCSTICCR DQGTVTDMASMK EDLNEASPSPGGCYDTK	43.5
similar to RIKEN cDNA 1110055L24	34854713	28.1	25 FT	4	2 TAIPYDKK GNCEMSSVTGTLCK	71.2
Similar to RIKEN cDNA 2010320H07 gene	34853121	83.7	150 80mM	1	1 (R)LLAELVQSSQVAR(V) 707.43(2+), (246.16)VQSSQV(874.47), 41	11.9
Similar to TRIM14 alpha	34868472	59.2	46 80mM	33	7 LWEGTISIPR NTLQTPMDTR LLLDEEEALAK GHPVGLAEEEAAR TPTLDPDTMHAR APVQSDWTGGWR VWDISQVSNPVQLLQAYIATK	118.2
Unknown (protein for MGC:72560)	40018580	17.8	20 40mM	16	6 LLLDPSNTPTK KLLLDPSNTPTK TDEQALLSSILAK IAAYAYSALSQIR TASNIIDVSAADSQGMEQHEYMDR + Oxidation (M) LPPLPSLTSQPHQVLASEPIPFSDLQQVSR	337.1

Unknown (protein for MGC:72638)	40018550	21.7	25 40mM	1	1 (R)SSDGASALSVPR(K) 573.74(2+), (642.39)SAGD(972.51), 53	46.1
10. Vesicular and protein	trafficking	1				
arl10C	12838871	21.5	25 80mM	5	4 DLPNALDEK MNLSAIQDR + Oxidation (M) GVNAIVYMIDAADR NELHNLLDKPQLQGIPVLVLGNKR	186.0
Cation Dependent M6PR	27713160	31.6	46 40mM	5	4 SVPAAYR SNEKETVVGR HTLAGNFNPVSEER SFESTVGQGSDTYSYIFR	126.6
ergicp53, Mannose-binding lectin 1	16758758	58.2	70 250mM	14	9 IHLEIK DIDSLAQR IAPSLKSQR QLDMILDEQR YVSSLTEEISR QLDMILDEQRR AAFENWEVEVTFR GAGTPGQPGQVSQQELDTVVR GHPDLQGQPADDIFESIGDRELR	154.6
heat shock protein 8; Heat shock cognate protein 70; heat shock 70kD protein 8	13242237	71	80 250mM	9	5 DAGTIAGLNVLR FEELNADLFR ARFEELNADLFR TTPSYVAFTDTER IINEPTAAAIAYGLDK	70.4
RAB11B, member RAS oncogene family	14249144	24.5	30 80mM	3	3 AQIWDTAGQER GTRDDEYDYLFK + N-Acetyl (Protein) VVLIGDSGVGK	122.4
Rab1A	4758988	22.9	20 FT	19	7 IQSTPVK YASENVNK MGPGATAGGAEK + Oxidation (M) LLLIGDSGVGK LQIWDTAGQER SSMNPEYDYLFK + N-acetyl (Protein); Oxidation (M) NATNVEQSFMTMAAEIK	305.7
Rab2	13929006	23.6	25 80mM	1	1 (K)LQIWDTAGQESFR(S) 775.89(2+), (895.43)DWI(1309.62), 31	42.4
Rab5C	27689505	23.6	30 80mM	11	3 NEPQNAAGAPGR GVDLQESNPASR QASPNIVIALAGNK	127.1
Rab6	17512290	23.6	20 80mM	21	7 SREDMIDIK QVSIEEGERK LVFLGEQSVGK WIDDVRTER SAGGDFGNPLRK + N-Acetyl (Protein) VAAALPGMESTQDR DSAAAVVVYDITNVNSFQQTTK	296.6
Rab7	13027392	23	25 80mM	10	6 ATIGADFLTK VIILGDSGVGK	260.9

					NNIPYFETSAK	
					DPENFPFVVLGNK	
					EAINVEQAFQTIAR NALKQETEVELYNEFPEPIK	
RIKEN cDNA 1500016L11	21312151	25.1	30 250mM	6	3 MDLLFGR + N-Acetyl (Protein)	119.5
					ANIQAVSLK KTPEELLR	
RIKEN cDNA 3930401E15	38083573	25.5	25 40mM	2	2 AEDLNTR	78.4
KIKEN CONA 333040 IE 13	00000070	20.0	25 40111101	2	QCFYEDITQGTK	70.4
similar to ankyrin repeat hooked to a zinc	34873095	131	100 FT	4	2 ESGAAEQVDNK	15.3
finger motif long form					AEEEVAKLEK + N-Acetyl (Protein)	
similar to EH-domain containing 1	34861835	62.9	75 250mM	1	1 (R)HLIEQDFPGMR(I)	15.9
					671.86(2+), (850.39)EIL(1205.60), 36	
similar to golgi phosphoprotein 4; type II Golgi	34857091	73.1	90 250mM	16	6 LHGQLLR	82.1
membrane protein; 130 kDa golgi-localized					YLQLQQEK	
phosphoprotein; cis Golgi-localized calcium-					QQQQQYLAR	
binding protein					SPYEEQLEQQR LREHQEALHQQR	
					YLQLQQEKEQELSK	
similar to golgi-specific brefeldin A-resistance	34863597	210	250 FT	3	2 GVRFTQSSQK	9.5
guanine nucleotide exchange factor 1		210	20011	Ü	AASSSPGSPVASSPSK	0.0
similar to gp25L2 protein	34873639	27.1	35 80mM	1	1 (R)QLVEQVEQIQK(E)	36.9
					671.39(2+), (275.17)IQEVQEV(1100.60), 57	
similar to hypothetical protein 5031407H10	34851786	63.5	67 FT	2	2 TPQSAAQLR	31.5
					TAASDSSPTGEPQR	
similar to LRG-47	27670133	45.1	60 250mM	8	2 NTLQTDLSNIR	44.3
similar to NIDCNAD4 protein	34879019	22.6	25 250mM	0	IIGHEEDASAPTGVVR 2 AGPNIYELR	59.5
similar to NIPSNAP1 protein	34679019	33.6	25 250IIIIVI	8	GWDENVYYTVPLVR	59.5
similar to Procollagen (type III) N-	34851987	24.2	25 80mM	2	1 (R)VYAENAIR(K)	41.3
cirillar to Frooting on (typo m) it			20 00111111	_	468.30(2+), (359.24)NEAY(836.43), 41	
similar to Rab18	27687387	23.2	25 80mM	1	1 (K)LAIWDTAGQER(F)	43.1
					630.33(2+), (304.16)QGATDWI(1075.52), 53	
Similar to Rab5B	34862219	35.2	25 40mM	3	2 SEPQNPGGAAGR	56.8
	0.4007500	00.0	75.050.14	•	QASPSIVIALAGNK	0.4.0
similar to RET-II	34867583	82.3	75 250mM	3	2 LQEADQVLSSR QNLAEAVTLAER	24.3
similar to RIKEN cDNA 2010012F05	34859075	23.7	35 250mM	4	2 LRDTEEMLSK	42.2
Similar to MixEIV OBIVI 20100121 00	01000010	20.7	00 200mm	7	QLAQIDGTLSTIEFQR	72.2
Sorting Nexin 3A	4507143	18.8	20 250mM	2	2 AETVADTRR + N-Acetyl (Protein)	106.4
S					QLPFRGDDGIFDDNFIEER	
SNAP alpha	2143586	33.5	40 80mM	4	2 TIQGDEEDLR	59.7
					LDQWLTTMLLR	
Syntaxin 7	11177920	29.8	35 80mM	4	4 TLNQLGTPQDTPELR	134.2
					ITQCSAEIQR SYTPGIGGDPAQLAQR + N-Acetyl (Protein)	
					QQLQQEQQYTNQLAK	
syntaxin 8; syntaxin-like protein 3l35	13928908	27.1	35 80mM	7	4 RVTLVDR	147.6
of the state of th			30 00	•	QNLLDDLVTR	717.0
					QITQLEGDRR	
					GTPNPWLCEEPEETRGLGFDEIR	

TGN38	20301976	41	100 20mM	14	6 SGQKFTK IIAFALEGK SSEPTEDVETK LKETLQQLLPVDPK VLGPSSSENQEGTLTDSMKDEK EIEEGDTEPEEGSPLEEENEK	146.3
Ubitquitin	70637	8.4		20	5 EGIPPDQQR ESTLHLVLR TLSDYNIQK IQDKEGIPPDQQR TITLEVEPSDTIENVK	595.2
Vamp2B	4894188	14.5	20 40mM	2	2 LSELDDR ADALQAGASQFETSAAK	137.9
VAMP8	13929182	11.3	20 40mM	27	8 GENLDHLR NLQSEVEGVK NIMTQNVER MEASGSAGNDRVR + N-Acetyl (Protein) TEDLEATSEHFK ILARGENLDHLR NKTEDLEATSEHFK NLQSEVEGVKNIMTQNVER	708.0
vesicle transport through interaction with t- SNAREs 1B homolog	34866243	36.3	30 80mM	7	3 ALLLQGTESLNR GLLEDLQGVPER IAAETDQIGSEIIEELGEQRDQLER	82.6
Vps24p protein	27229308	25.1	25 250mM	1	1 (K)IPEIQATMR(E) 529.86(2+), (407.21)AQIEP(945.48), 41	39.8

<sup>\*</sup>For proteins identified with one unique peptide, additional information provided is: precursor ion and charge, sequence tag of y-ions, Mascot score.