

Table S-1 List of the detected phosphopeptides from digest of 2 pmol α -casein following Fe^{3+} -IMAN enrichment. The data in parentheses are S/N of the phosphopeptides which are detected in direct MALDI-TOFMS analysis.

No.	Sequence of phosphopeptides	No. of sites	(M+H) ⁺	S/N Ratio
1	EQLS _p TS _p EENSK	2	1411.54	14
2	TVDMES _p TEVFTK	1	1466.66	2958(51)
3	EQLSPTS _p EENSKK	1	1539.64	238
4	TVDMES _p TEVFTKK	1	1594.76	858(11)
5	VPQLEIVPNS _p AEER	1	1660.85	7889(1566)
6	YLGEYLIVPNS _p AEER	1	1832.90	328(59)
*7	DIG(S _p ES _p)TEDQAMEDIK	1	1847.77	36
8	DIGS _p ES _p TEDQAMEDIK	2	1927.77	4469(102)
9	YKVPQLEIVPNS _p AEER	1	1952.02	11684(4819)
10	NTMEHVS _p S _p S _p EES _p QETKYK	4	2618.97	79
11	VNELS _p KDIGS _p ES _p TEDQAMEDIK	3	2678.08	263
12	QMEAES _p IS _p S _p S _p EEIVPNS _p VEAQK	5	2720.97	236
13	NTMEHVS _p S _p S _p EES _p SQETKYKQ	4	2747.04	689
14	EKVNELS _p KDIGS _p ES _p TEDQAMEDIK	3	2935.22	50
15	NANEEEEYSIGS _p S _p S _p EES _p AEVATEEVK	4	3008.09	354
16	NANEEEEYSIGS _p S _p S _p EES _p AEVATEEVK	5	3088.01	45
17	KNTMEHVS _p S _p S _p EES _p S _p QETKYQEK	5	3132.21	40

*7: Only one phosphorylation site either 4th or 6th serine in this phosphopeptide, we can't give the exact location about the phosphorylation.

Table S-2 the identified unique phosphopeptides from plasma membrane proteins of mouse liver

Peptide	MH+	Xcorr	DeltaCn	z	Reference	MW	Description
R.NAS#VPNLR.G	950.45	2.52	0.51	2	IPI00109033.3	31706.2	
R.ETIPM*NASNLS#LSK.Y	1600.73	2.73	0.18	2	IPI00110896.1	37393.2	Fas Tumor necrosis factor receptor superfamily member 6 precursor
R.QAS#PTEVVER.L	1195.54	2.61	0.21	2	IPI00112203.2	114243.1	Pum2 Isoform 1 of Pumilio homolog 2
R.TSS#LPESSPSK.T	1199.52	2.91	0.26	2	IPI00112339.2	84038.2	
K.SDNEETLGRPAQPPNAGESPHS #PGVEDAPIAK.V	3347.52	4.64	0.11	3	IPI00112339.2	84038.2	
R.TSVQT@EDDQLIAGQSAR.A	1898.85	5.13	0.09	2	IPI00112963.1	100043.6	Ctnna1 Catenin alpha-1
R.TPEELDDS#DFETEDFDVR.S	2238.86	7.19	0.19	2	IPI00112963.1	100043.6	Ctnna1 Catenin alpha-1
K.NSTLS#EEDYIER.R	1535.63	4.67	0.12	2	IPI00115040.1	20965.5	Snip3 BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
K.AAATEDAT@PAALEK.G	1438.65	4.81	0.19	2	IPI00115482.1	39386.7	Slc10a1 Sodium/bile acid cotransporter
R.TGATAS#PSAEALPPK.T	1477.69	2.70	0.08	2	IPI00115506.1	92107.4	Akap1 Isoform 3 of A kinase anchor protein 1, mitochondrial precursor
R.TAGT@IAANEAVR.T	1253.59	2.61	0.26	2	IPI00115793.2	122321.2	Dsg2 Desmoglein-2 precursor
R.LAIQGPEDS#PSR.Q	1349.61	2.61	0.08	2	IPI00116372.1	28037.2	Myeloid leukemia factor 2
R.LLS#LVVR.Y	879.51	2.84	0.37	2	IPI00117256.1	45466.8	Admr Adrenomedullin receptor
K.NLALSRES#LVV.-	1280.66	3.11	0.21	2	IPI00117834.3	66066.3	Lsr Isoform 1 of Lipolysis-stimulated lipoprotein receptor precursor
K.NLALS#RESLVV.-	1280.66	3.21	0.11	2	IPI00117834.3	66066.3	Lsr Isoform 1 of Lipolysis-stimulated lipoprotein receptor precursor
K.STEVAKT@FR.K	1118.52	2.73	0.37	2	IPI00118892.6	70104.9	Lcp1 Plastin-2
R.GLGPPS#PPAPPR.G	1222.60	3.22	0.44	2	IPI00118895.1	56346.3	Sntb2 Beta-2-syntrophin
R.S#DWSVGWKRS#LLK.I	1721.78	2.60	0.23	2	IPI00119159.1	37239.1	

R.EDEIS#PPPPNPVVK.G	1597.75	3.64	0.38	2	IPI00119575.3	57245.5	Prkar1a Visual cortex cDNA, RIKEN full-length enriched library
K.AEEDILNRS#PR.N	1508.67	2.53	0.12	2	IPI00119618.1	67235.9	Canx Calnexin precursor
R.NLGT@PTSSTPR.P	1210.55	2.70	0.09	2	IPI00119785.2	76310.2	Tmem24 Transmembrane protein 24
K.T@LFS#VLPGLK.M	1234.59	2.71	0.20	2	IPI00119818.1	100260.9	
R.NS#LTGEEGELVK.V	1355.61	2.92	0.31	2	IPI00120052.1	47713.1	Sgpp1 Sphingosine-1-phosphate phosphatase 1
K.EAGIES#VNHTEL.-	1378.59	2.82	0.36	2	IPI00120580.6	173560.0	Abcc2 ATP-binding cassette, sub-family C, member 2
K.EVPM*VAVPPVGS#K.A	1405.68	2.52	0.57	2	IPI00121149.1	171774.8	Rrbp1 Isoform 3 of Ribosome-binding protein 1
K.VIYSQPS#TR.S	1130.52	3.12	0.13	2	IPI00121362.2	32403.1	F11r F11 receptor
K.FKQQKY^EINVLR.N	1645.85	3.20	0.27	2	IPI00121641.2	35905.0	Tnnt2 Tnnt2 protein
R.KNS#ASLHVLK.T	1176.61	4.18	0.21	2	IPI00121985.1	76678.3	Slco1b2 Isoform 1 of Solute carrier organic anion transporter family member 1B2
R.TTPLASPSLS#PGR.S	1363.66	2.67	0.10	2	IPI00122594.4	247490.7	Ahctf1 AT-hook-containing transcription factor 1
K.GGT@LVLVR.R	894.48	3.43	0.27	2	IPI00123184.1	75739.2	Slc26a1 Sulfate anion transporter 1
K.AKQDLRAEEQLPPLLSPPS#PST PHSR.R	2931.47	3.93	0.08	3	IPI00125348.2	116336.4	AA536749 Isoform 1 of Myosin phosphatase Rho-interacting protein
K.STST@ITLQALK.V	1242.63	2.68	0.12	2	IPI00125493.5	213474.3	ylk myosin, light polypeptide kinase
R.SATVS#PQQPQAQQR.R	1605.74	3.97	0.10	2	IPI00125895.1	76323.3	Sorbs1 Isoform 5 of Sorbin and SH3 domain-containing protein 1
R.AGEQDPVPTPAELTS#PGR.A	1901.86	4.38	0.09	2	IPI00125895.1	76323.3	Sorbs1 Isoform 5 of Sorbin and SH3 domain-containing protein 1
R.S#PQM*VSAIVR.T	1183.55	3.35	0.35	2	IPI00125899.1	85416.3	Ctnnb1 Catenin beta-1
R.LVDSGDGS#LAEVPK.E	1409.66	4.38	0.17	2	IPI00126245.1	57231.2	Steap3 Dudulin 2
K.SVVFTS#AR.A	946.44	2.84	0.10	2	IPI00126501.1	37482.1	Car14 Carbonic anhydrase 14 precursor
K.S#VVFTSAR.A	946.44	2.59	0.26	2	IPI00126501.1	37482.1	Car14 Carbonic anhydrase 14 precursor
K.SVVFTS#ARATTEA.-	1419.65	4.08	0.15	2	IPI00126501.1	37482.1	Car14 Carbonic anhydrase 14 precursor

R.PGTFTPTPSVSSQALS#S#PRLP R.V	2443.14	2.67	0.22	2	IPI00126827.1	41784.0	Esam1 Endothelial cell-selective adhesion molecule precursor
R.NFDT@LDLPK.R	1142.51	3.29	0.38	2	IPI00127472.2	106176.3	Arvcf Isoform 3 of Armadillo repeat protein deleted in velo-cardio-facial syndrome homolog
R.VTNAIS#PESSPGVGR.R	1550.72	4.38	0.15	2	IPI00127764.2	228690.7	Pcm1 Isoform 1 of Pericentriolar material 1 protein
K.NVFTS#AEELER.A	1374.59	3.70	0.13	2	IPI00128257.1	17798.9	Tmem166 Transmembrane protein 166
R.QLS#SGVSEIR.Q	1155.54	3.15	0.18	2	IPI00128522.1	22999.7	Hspb1 Isoform A of Heat-shock protein beta-1
K.DGEES#PTVLK.S	1154.50	2.98	0.12	2	IPI00129041.1	62738.9	Slc22a5 Organic cation/carnitine transporter 2
R.TGEPDEEEGTFRSS#IR.R	1889.79	4.10	0.11	2	IPI00130455.1	10316.3	Fxyd1 Phospholemman precursor
R.GPM*Y^DDPTLPEGWT@RK.L	2038.80	2.60	0.11	2	IPI00131063.4	52275.5	Mecp2 Isoform A of Methyl-CpG-binding protein 2
K.AETSESSGSAPAVPEASAS#PK. Q	2039.88	5.44	0.15	2	IPI00131063.4	52275.5	Mecp2 Isoform A of Methyl-CpG-binding protein 2
R.TSS#VPEYVYK.L	1252.55	2.87	0.24	2	IPI00132134.3	88049.2	
K.SAAS#PVVISIPER.A	1405.71	3.19	0.13	2	IPI00134457.3	261262.6	Son Isoform 1 of SON protein
K.DEILPTT@PISEQK.G	1550.73	3.46	0.11	2	IPI00134599.1	26657.4	Rps3 40S ribosomal protein S3
R.TAS#LTSAASIDGSR.S	1416.64	4.26	0.10	2	IPI00136134.1	40763.2	Ndr2 Isoform 1 of Protein NDRG2
R.Y^QVLLS#LM*LSSQTK.D	1786.81	3.20	0.23	2	IPI00136370.1	33625.5	Nthl1 Endonuclease III-like protein 1
R.SQS#GEDESLNQPGPIK.T	1765.76	3.84	0.11	2	IPI00136789.2	136658.2	Pex1 Peroxisome biogenesis factor 1
K.NQPEPTAPAT@PMTSLLR.L	1903.90	4.13	0.12	2	IPI00136863.1	68239.6	Slc6a13 Sodium- and chloride-dependent GABA transporter 3
K.NQPEPTAPAT@PM*TSLLR.L	1919.89	4.43	0.18	2	IPI00136863.1	68239.6	Slc6a13 Sodium- and chloride-dependent GABA transporter 3
R.TNPS#PTNPFSSDLQK.T	1712.75	4.82	0.10	2	IPI00137943.1	70768.7	Numb Isoform 1 of Protein numb homolog
R.CS#RY^LYTLVITDK.E	1734.76	2.62	0.08	2	IPI00138302.1	8170.7	G666487;LOC671050;LOC674727 similar to ribosomal protein L38
R.LSEGAALAGPAS#PPR.R	1570.76	3.92	0.55	2	IPI00153354.6	162153.0	Rusc2 RUN and SH3 domain containing 2
-.MAALVVS#ETAEPGSRVGPGR.	2063.99	2.73	0.09	2	IPI00153827.2	47973.6	Dph1 diphtheria toxin resistance protein required for

G							diphthamide biosynthesis (Saccharomyces)-like 1
R.SFS#M*QDLR.S	1079.42	2.64	0.18	2	IPI00169509.1	29671.3	Reep4 Receptor expression-enhancing protein 4
R.GVS#M*PNM*LEPK.I	1314.55	2.87	0.22	2	IPI00169851.4	75243.8	
R.TLS#PTPSAEGYQDVR.D	1700.75	3.84	0.10	2	IPI00169851.4	75243.8	
R.SIS#FPEVPR.S	1111.52	3.11	0.15	2	IPI00170232.2	243009.4	Svil Supervillin
R.RGS#LELGNPSAAHLGDELKEV STAK.S	2659.31	4.31	0.23	3	IPI00170232.2	243009.4	Svil Supervillin
R.GQNT@HLQLQLPQLSR.Y	1812.91	2.56	0.10	2	IPI00170344.2	16575.8	BC027057 BC027057 protein
R.LFNLRSIY^LQWNR.I	1802.91	2.53	0.14	2	IPI00170371.2	67105.7	Lrrtm4 Isoform 1 of Leucine-rich repeat transmembrane neuronal protein 4 precursor
R.VQSS#PNLLAAGR.E	1292.64	3.31	0.19	2	IPI00177047.9	78026.2	Sorbs2 Sorbin and SH3 domain containing 2
R.VQS#SPNLLAAGR.E	1292.64	4.07	0.09	2	IPI00177047.9	78026.2	Sorbs2 Sorbin and SH3 domain containing 2
K.DGS#FEGLTVK.K	1132.49	2.94	0.53	2	IPI00221560.1	96095.3	Ttc7 Tetratricopeptide repeat protein 7A
R.ETTGLS#PQAAQEK.D	1439.64	2.60	0.26	2	IPI00221695.1	63399.4	Zkscan1 Isoform 1 of Zinc finger with KRAB and SCAN domain-containing protein 1
K.ATIS#DEEIER.Q	1242.52	2.67	0.31	2	IPI00222386.3	23919.2	Chmp2b Charged multivesicular body protein 2b
R.TLM*LPLTEGS#LR.L	1426.70	3.40	0.19	2	IPI00222443.1	65506.3	
K.LS#EKLSE.T	1041.50	2.65	0.14	2	IPI00222838.2	81022.8	
R.AAS#PPASASDLIEQQK.R	1820.84	5.31	0.29	2	IPI00223670.2	95523.8	6330569M22Rik Isoform 1 of Protein FAM40A
K.NSAS#VGIIQR.D	1124.55	2.85	0.28	2	IPI00223880.1	48968.7	A230097K15Rik hypothetical protein LOC231510
K.LPS#SSLLVDR.A	1166.58	2.88	0.15	2	IPI00226656.1	36105.1	D5Ert593e Genethonin-1
R.GS#PVPPVPER.R	1114.53	2.56	0.40	2	IPI00227516.4	131034.6	AA409316 Expressed sequence AA409316
R.RGS#PVPPVPER.R	1270.63	3.09	0.59	2	IPI00227516.4	131034.6	AA409316 Expressed sequence AA409316
R.KGS#PTPAYPER.K	1282.58	3.22	0.15	2	IPI00227516.4	131034.6	AA409316 Expressed sequence AA409316
R.RGS#PVPPVPERR.G	1426.73	3.51	0.23	3	IPI00227516.4	131034.6	AA409316 Expressed sequence AA409316
R.QGLDTAS#EAEPER.R	1482.61	3.01	0.24	2	IPI00227516.4	131034.6	AA409316 Expressed sequence AA409316

R.AAS#PAKPSSLDLVPNLPR.A	1912.99	3.69	0.41	2	IPI00228431.4	117221.9	Synpo synaptopodin isoform 2
R.TNPPTQKPPS#PPVSGR.G	1739.85	2.69	0.21	2	IPI00228460.5	38948.0	Abi1 39 kDa protein
R.ALM*GS#PQLVAAVVR.T	1507.77	4.57	0.56	2	IPI00229475.1	81748.9	Jup Junction plakoglobin
K.GYYSPYSVSGSGSTAGS#R.T	1862.76	4.48	0.15	2	IPI00229509.2	517110.8	Plec1 Isoform PLEC-1I of Plectin-1
K.GYYSPYSVSGSGSTAGSR.T	1862.76	4.33	0.09	2	IPI00229509.2	517110.8	Plec1 Isoform PLEC-1I of Plectin-1
R.LNS#PPSTIYK.N	1199.57	2.95	0.29	2	IPI00229601.5	132685.2	Fndc3b MKIAA4164 protein (Fragment)
R.SFSLASSGNS#PISQR.R	1617.73	3.22	0.13	2	IPI00229798.2	84279.9	Osbp111 oxysterol binding protein-like 11
K.FPIEDAS#NKLPCNCGAKK.C	2014.91	3.13	0.18	2	IPI00230024.3	429094.9	Mll1 Isoform 2 of Zinc finger protein HRX
K.HS#GLRNILPITT@AK.V	1680.82	2.67	0.13	2	IPI00262966.3	169011.7	Zcchc6 Zinc finger CCHC domain-containing protein 6
K.QS#VVS#GQGDKGQLES#LSK.S	2086.85	2.52	0.08	2	IPI00264205.5	174103.7	EG245643 174 kDa protein
K.FAY^IVDLSDSDTADK.F	1652.71	2.66	0.13	2	IPI00265502.2	45426.8	rim47 Trim47 protein (Fragment)
R.AAS#DPLLSSVSPAVSK.A	1608.79	3.18	0.27	2	IPI00272774.4	57762.0	Tcf3 Isoform 4 of Transcription factor E3
R.ASVALTPTAPS#R.T	1250.61	3.24	0.27	2	IPI00275810.6	136850.0	Ssfa2 Isoform 1 of Sperm-specific antigen 2 homolog
R.ASVALTPT@APSR.T	1250.61	3.18	0.09	2	IPI00275810.6	136850.0	Ssfa2 Isoform 1 of Sperm-specific antigen 2 homolog
K.EVADS#PPPLTR.S	1261.58	2.51	0.25	2	IPI00275810.6	136850.0	Ssfa2 Isoform 1 of Sperm-specific antigen 2 homolog
R.SQS#LPTTLLSPVR.V	1478.76	4.68	0.17	2	IPI00275810.6	136850.0	Ssfa2 Isoform 1 of Sperm-specific antigen 2 homolog
R.TPLGAS#LDEQSSGTPK.G	1667.75	4.88	0.23	2	IPI00275810.6	136850.0	Ssfa2 Isoform 1 of Sperm-specific antigen 2 homolog
R.SLAS#FEAQSGSM*SSEK.K	1711.69	5.13	0.13	2	IPI00275810.6	136850.0	Ssfa2 Isoform 1 of Sperm-specific antigen 2 homolog
R.SHSVPRS#PSQGSYSR.A	1711.75	2.58	0.17	2	IPI00279128.2	131346.2	Plekha6 Pleckstrin homology domain-containing family A member 6
R.TEESAPGPGGADAAS#ER.R	1681.67	5.05	0.54	2	IPI00280005.5	61601.8	1300013J15Rik Novel protein
R.SAS#ADNLILPR.W	1236.60	3.88	0.11	2	IPI00308149.1	39370.0	Ccny Isoform 1 of Cyclin fold protein 1
K.NLS#IVVS#LCNNKTNK.K	1806.82	2.64	0.32	2	IPI00308929.6	63925.4	
R.SVS#TVSSELSR.R	1231.56	3.29	0.11	2	IPI00309473.3	24784.8	Cideb Cell death activator CIDE-B
R.S#TTFSTNYR.S	1156.47	3.00	0.11	2	IPI00311493.4	47475.3	Krt18 Keratin, type I cytoskeletal 18
R.VRPASSAASVYAGAGGS#GSR.	1887.87	4.25	0.16	2	IPI00311493.4	47475.3	Krt18 Keratin, type I cytoskeletal 18

I

R.VRPASSAASVY^AGAGGSGSR.	1887.87	3.29	0.10	2	IPI00311493.4	47475.3	Krt18 Keratin, type I cytoskeletal 18
I							
R.VRPASSAAS#VYAGAGGSGSR.	1887.87	4.37	0.12	3	IPI00311493.4	47475.3	Krt18 Keratin, type I cytoskeletal 18
I							
K.AAVQM*EFLASSES#V.-	1564.66	4.32	0.27	2	IPI00311809.3	57069.8	Slc2a2 Solute carrier family 2, facilitated glucose transporter member 2
R.KAAVQMEFLASSES#V.-	1676.76	3.24	0.15	2	IPI00311809.3	57069.8	Slc2a2 Solute carrier family 2, facilitated glucose transporter member 2
R.KAAVQM*EFLASSES#V.-	1692.76	3.46	0.20	2	IPI00311809.3	57069.8	Slc2a2 Solute carrier family 2, facilitated glucose transporter member 2
R.SQT@PPGVATPPIPK.I	1469.74	3.35	0.16	2	IPI00313307.3	165346.0	Pparbp Isoform 4 of Peroxisome proliferator-activated receptor-binding protein
R.QPS#IELPSM*AVASTK.T	1654.78	3.40	0.35	2	IPI00313672.2	36988.0	Lsp1 Isoform 1 of Lymphocyte-specific protein 1
R.VIS#PGPNFQER.I	1323.61	2.68	0.32	2	IPI00314152.6	62661.6	Palmd Palmdelphin
R.GSLAS#LDSLR.K	1098.52	3.61	0.30	2	IPI00316623.2	102501.9	
R.GSLAS#LDSLRK.G	1226.61	2.71	0.20	2	IPI00316623.2	102501.9	
R.AES#PETSVESTQSTPQK.G	1956.84	5.45	0.14	2	IPI00317401.5	164554.1	Aprin Androgen-induced proliferation inhibitor
K.SALPAQS#AATLPAR.T	1433.71	2.82	0.13	2	IPI00319830.7	274051.0	Spnb2 Spectrin beta chain, brain 1
K.EGEEPTVYS#DDEEPKDETAR.	2375.94	3.30	0.11	2	IPI00319973.3	216.80.8	Pgrmc1 Membrane-associated progesterone receptor component 1
K							
K.LLKEGEEPTVYS#DDEEPKDET	2730.20	3.87	0.10	3	IPI00319973.3	21680.8	Pgrmc1 Membrane-associated progesterone receptor component 1
AR.K							
R.ALSGS#ATLVSSPK.Y	1297.64	3.42	0.10	2	IPI00321243.1	77007.3	Tmcc2 Transmembrane and coiled-coil domains protein 2
R.FSFSPSAVS#PR.T	1261.56	3.58	0.18	2	IPI00321421.4	148480.6	Plekhh3 Pleckstrin homology domain containing, family G (With RhoGef domain) member 3
R.SIS#TVDLTEK.S	1172.54	3.57	0.14	2	IPI00321643.4	57152.2	Baiap211 Brain-specific angiogenesis inhibitor 1-associated

							protein 2-like protein 1
R.RPS#TSPDVLQGQPPR.A	1714.83	2.99	0.09	2	IPI00321895.1	34967.6	Ube2j1 Ubiquitin-conjugating enzyme E2 J1
R.ISSSS#FSR.V	950.40	2.60	0.14	2	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
R.S#FTSGPGAR.I	959.40	2.75	0.26	2	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
R.VGS#SSSSFR.G	993.40	3.36	0.13	2	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
K.LVSESSDVVS#K.-	1229.57	3.38	0.23	2	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
K.LVSES#SDVVS#K.-	1229.57	3.33	0.11	2	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
K.LVS#ESSDVVS#K.-	1229.57	3.57	0.22	2	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
R.AFSSRS#FTSGPGAR.I	1507.67	3.53	0.10	3	IPI00322209.5	54531.5	Krt8 Keratin, type II cytoskeletal 8
R.M*EIQVPPS#PTDVAK.S	1607.74	2.74	0.11	2	IPI00330139.5	215687.0	Arhgap21 similar to Rho GTPase activating protein 21 isoform 2
R.AQS#LEPYGTGLK.A	1343.62	2.77	0.17	2	IPI00330497.4	90189.8	Ankrd25 Isoform 1 of Ankyrin repeat domain-containing protein 25
R.EEAAPPT@PAPDDLAQLK.N	1842.85	3.20	0.47	2	IPI00330599.1	63807.7	Mtdh Protein LYRIC
K.KHTNS#LEKEALVTK.T	1677.86	3.66	0.15	2	IPI00330966.4	168941.8	
K.AAPS#PAPAEPAPK.S	1354.64	3.04	0.57	2	IPI00331334.3	61790.4	Bag3 BAG family molecular chaperone regulator 3
K.AAT@PPNPSNPADSAGNLVAP.	1940.87	3.73	0.20	2	IPI00331334.3	61790.4	Bag3 BAG family molecular chaperone regulator 3
-							
R.GS#GVNAAGDGTIR.E	1254.55	2.52	0.48	2	IPI00331573.3	89769.5	Tgm1 Protein-glutamine gamma-glutamyltransferase K
R.SLSNS#NPDISGTPTSPDDEV.R.S	2267.97	5.79	0.08	2	IPI00339428.9	241024.0	Dock7 Isoform 2 of Dedicator of cytokinesis protein 7
K.SKEPKDPEQLYS#TLK.N	1842.89	2.60	0.14	2	IPI00356416.1	93660.1	EG330129 similar to p300/CBP-associated factor
K.VQTT@PPPTIQGQK.V	1474.73	3.41	0.10	2	IPI00356608.4	94602.3	Aak1 Isoform 2 of AP2-associated protein kinase 1
R.LGAPENSGIST@LER.G	1523.71	3.55	0.13	2	IPI00356904.7	118800.7	Farp1 FERMRhoGEF (Arhgef) and pleckstrin domain protein 1
K.SPDEATAADQES#EDDLSASR.T	2173.84	6.90	0.26	2	IPI00356904.7	118800.7	Farp1 FERMRhoGEF (Arhgef) and pleckstrin domain protein 1

K.AITSLLGGGS#PK.N	1180.60	3.99	0.41	2	IPI00357096.3	303571.3	Nipbl Isoform 2 of Nipped-B-like protein
R.TAS#AGTVSDAEAR.S	1315.55	3.98	0.12	2	IPI00378430.3	80732.6	- 81 kDa protein
R.QGS#PTPALPEK.R	1204.56	2.69	0.19	2	IPI00378438.6	201255.9	Tns1 tensin 1
R.TVGTNTPPS#PGFGR.R	1467.66	3.09	0.14	2	IPI00378438.6	201255.9	Tns1 tensin 1
R.AAS#DGQYENQSPEATSPR.S	1987.80	5.48	0.13	2	IPI00378438.6	201255.9	Tns1 tensin 1
K.TQT@VTISDTANAVK.S	1528.73	3.53	0.15	2	IPI00395157.1	95931.6	Epb4.1 Isoform 1 of Protein 4.1
R.TAS#ELLLDR.R	1097.52	2.63	0.28	2	IPI00403017.2	219521.0	
R.YGS#IVDDER.L	1133.45	2.56	0.16	2	IPI00406193.4	180414.9	Iqgap2 IQ motif containing GTPase activating protein 2
R.NSGSFSSPSIS#PR.-	1402.60	4.51	0.12	2	IPI00407613.1	59345.8	Mtus1 mitochondrial tumor suppressor 1 isoform 3
R.TLS#SPTGTETNPPK.A	1509.68	3.87	0.10	2	IPI00408265.3	133321.2	Cobl1 Isoform 2 of Cordon-bleu protein-like 1
R.SES#PPPLSEPK.Q	1247.56	2.66	0.21	2	IPI00410791.1	79712.2	Brd3 Isoform 1 of Bromodomain-containing protein 3
R.SIS#PSPSAILER.R	1336.65	4.26	0.20	2	IPI00411164.3	994746.0	Etl4 Novel protein
R.TSS#PTSLPPLAR.S	1306.64	3.11	0.11	2	IPI00417153.2	174608.8	Eif4g3 Eukaryotic translation initiation factor 4 gamma, 3
K.TAPSS#PLTSPSDTR.S	1496.66	3.67	0.10	2	IPI00420516.3	125147.2	Tex2 Testis-expressed sequence 2 protein
R.GAPSS#PAAGVLPSPQGK.A	1600.77	3.40	0.09	2	IPI00420602.3	196568.7	Nup188 Nucleoporin 188
K.VQQMGVNPT@S#IDS#GVIGK.D	2069.84	2.58	0.19	2	IPI00421211.2	38698.0	Aptx Isoform 1 of Aprataxin homolog
R.SLTGSGS#QEDLLLQK.S	1655.79	3.25	0.12	2	IPI00453807.3	205816.5	Cdk5rap2 CDK5 regulatory subunit-associated protein 2
R.LGLGT@LSSSLR.A	1270.64	2.84	0.09	2	IPI00457486.3	212093.8	Sbfl1 similar to SET binding factor 1 isoform a isoform 16
K.SSGSLS#PGLETEDPLEAR.E	1924.85	2.59	0.11	2	IPI00459443.5	181713.2	Tnks1bp1 tankyrase 1 binding protein 1
K.EGVGEETLS#PR.R	1253.54	2.74	0.13	2	IPI00460453.5	148109.8	Cgnl1 Junction-associated coiled-coil protein
R.QDS#AGPILDGAR.S	1279.57	3.41	0.36	2	IPI00460453.5	148109.8	Cgnl1 Junction-associated coiled-coil protein
K.SYGSQPNS#PTSEDLAK.T	1760.74	3.55	0.12	2	IPI00460453.5	148109.8	Cgnl1 Junction-associated coiled-coil protein
K.QQQS#FTNPTLIK.G	1484.71	2.96	0.25	2	IPI00461329.3	44582.3	Pex13 Peroxisomal membrane protein PEX13
R.SIVPSS#PQSQR.A	1265.59	2.74	0.20	2	IPI00464163.8	28191.0	Stim2 stromal interaction molecule 2 isoform 4
R.VVFENEQDNNNS#LTK.T	1716.75	3.49	0.21	2	IPI00464270.4	411871.9	LOC665732 similar to CG4841-PA isoform 1

R.FSS#GGEEEDFDR.S	1454.51	3.53	0.18	2	IPI00464316.2	77580.6	Ablim3 Actin-binding LIM protein 3
R.RASS#PGYIDSPTYR.Q	1736.76	3.09	0.18	2	IPI00464316.2	77680.6	Ablim3 Actin-binding LIM protein 3
R.TSETSIS#PPGSSIGSPNR.V	1853.83	4.46	0.11	2	IPI00464316.2	77580.6	Ablim3 Actin-binding LIM protein 3
K.ALGVISNFAQSS#PK.Y	1427.69	4.04	0.12	2	IPI00464322.2	76451.9	Tmcc1 transmembrane and coiled coil domains 1 isoform 2
R.KVS#VEPQDSHQDAQPR.G	1900.85	3.96	0.21	2	IPI00465991.2	74482.2	Slco2b1 Solute carrier organic anion transporter family member 2B1
R.NDS#IPVLR.G	993.48	2.83	0.31	2	IPI00467571.1	27205.1	
R.AVGGAPS#PPPPVR.R	1281.64	2.97	0.46	2	IPI00469012.1	73103.5	
R.TLGT@PTQSGSTPR.V	1382.63	3.15	0.16	2	IPI00469331.2	34763.5	Nup35 Nucleoporin NUP53
R.LFDDEAS#VDEPR.T	1472.59	4.72	0.62	2	IPI00471243.2	198393.1	Inadl Isoform 1 of InaD-like protein
R.VGS#PLTLTDAQTR.V	1438.69	3.48	0.29	2	IPI00473693.2	131696.0	Pkp4 Isoform 1 of Plakophilin-4
R.AQS#PSYVTSTGVSPSR.G	1703.76	4.21	0.10	2	IPI00473693.2	131696.0	Pkp4 Isoform 1 of Plakophilin-4
R.ALSSGGSITSPPLS#PALPK.Y	1859.95	2.99	0.14	2	IPI00473912.4	149101.2	Tnrc15 Isoform 1 of PERQ amino acid-rich with GYF domain-containing protein 2
R.SDSS#QPM*LLR.V	1229.52	3.72	0.13	2	IPI00474450.1	425552.1	Dmd Dystrophin
R.SQSQAS#LTGLAFM*SPSNR.S	1977.87	5.43	0.13	2	IPI00515242.1	53942.6	Cgn Cgn protein (Fragment)
R.GSPGALSS#DSELPENPYSQVK. G	2241.99	4.18	0.11	2	IPI00515242.1	53942.6	Cgn Cgn protein (Fragment)
R.SM*S#FQGIR.Q	1021.42	2.98	0.25	2	IPI00553419.3	332704.8	Dsp desmoplakin isoform 1
K.GLPSPYNM*SAPGS#R.S	1529.65	3.78	0.35	2	IPI00553419.3	332704.8	Dsp desmoplakin isoform 1
R.NS#GETREVQIPISNS#EK.P	2047.87	2.66	0.09	2	IPI00620743.2	324952.3	D030022P06Rik;1700008J07Rik Snf2-related CBP activator protein isoform 1
R.S#VDISLGGSPR.K	1167.54	3.96	0.39	2	IPI00624550.3	146457.1	
K.VM*SPLQS#PTK.A	1183.54	3.41	0.17	2	IPI00624550.3	146457.1	
R.SLPLDQT@LPR.Q	1219.61	2.81	0.45	2	IPI00624550.3	146457.1	
K.LGVSVS#PSR.A	981.48	3.44	0.11	2	IPI00648513.1	105631.3	5830416A07Rik conserved nuclear protein Nhn1 isoform b

R.MLLTNTQEDS#R.R	1387.59	2.59	0.14	2	IPI00649141.2	487789.5	Vps13d similar to vacuolar protein sorting 13D isoform 2 isoform 5
R.LLCPSLY^LPK.T	1226.63	2.53	0.11	2	IPI00651800.1	32695.8	
R.S#LQQLAEER.S	1153.52	3.47	0.28	2	IPI00660522.1	235123.6	Spna2 similar to Spectrin alpha chain
R.NGILASPQS#APGNLDNSK.S	1862.86	5.62	0.24	2	IPI00664442.3	127139.6	Slc4a7 solute carrier family 4, sodium bicarbonate cotransporter, member 7
R.QVS#PVASVPR.R	1119.56	2.77	0.31	2	IPI00667180.2	167337.0	Gm449 similar to Msx2-interacting protein
R.PSAPDLS#PTR.T	1120.50	3.78	0.16	2	IPI00673886.3	127651.1	Sorbs2 MKIAA0777 protein (Fragment)
R.SHS#LPNSLDYQAASER.G	1854.80	5.19	0.12	2	IPI00678532.3	51997.0	
K.QS#CFVAAGITVLNDIEGVY^R K.A	2443.11	2.57	0.09	2	IPI00750237.1	25686.4	EG667870 similar to Anaphase-promoting complex subunit 5
K.QY^KDDPVTLENT@AK.I	1781.74	2.56	0.14	2	IPI00754361.1	8956.6	LOC673829 similar to androgen-binding protein eta
K.VEM*GTSSQNDVDM*SWIPQE TLNQINKAS#PR.R	3487.55	4.34	0.11	3	IPI00755329.1	32045.1	Ssr1 Translocon-associated protein subunit alpha precursor
K.HS#LVKDQVT@IGQRR.S	1796.86	2.59	0.14	2	IPI00755938.1	130824.1	3732412D22Rik similar to LIM domain only protein 7
R.SFS#LDPLM*ER.R	1290.54	3.19	0.32	2	IPI00762785.2	171917.1	Tenc1 C1 domain-containing phosphatase and tensin-like protein
R.GPLDGSPY^AQVQR.V	1467.66	3.22	0.10	2	IPI00762785.2	151917.1	Tenc1 C1 domain-containing phosphatase and tensin-like protein
R.AGSVSPGS#PPYLQPR.K	1592.75	3.66	0.13	2	IPI00762785.2	151917.1	Tenc1 C1 domain-containing phosphatase and tensin-like protein
R.AIAEPES#PGESR.Y	1322.56	3.12	0.14	2	IPI00762889.1	99264.2	Tjp3 Tight junction protein ZO-3
K.LT@LNDLFS#EQK.E	1467.62	2.72	0.30	2	IPI00114692.6	134765.9	Zfp804a zinc finger protein 804A