

Supplementary Table 1 - List of identified peptides after peptide enrichment together with their corresponding antibody and target gene.

Gene name	Protein Description	HPA-ID	Sequence
ABP1 ACOT7	Amine oxidase:Amloride-sensitive amine oxidase (copper-containing) acyl-CoA thioesterase 7	HPA031032 HPA025762	SWLIQR SMEIEVLVDADPVVDSSQKR SLPVPQLVPETEDEKRR LHVSSLLSSVFK
ADCK2	Uncharacterized aarF domain-containing protein kinase 2	HPA036036	TEMAMLVQTQAR HALGYTLHPPSQAVVEGQHK ILESSVDPIDEISVIEYTR FLTCPK
ADRA1A ALPK2	Alpha-1A adrenergic receptor Alpha-protein kinase 2	HPA029678 HPA027976	AAYLQETGKPLDETLKK GVDEATIIDLTKR GVDEATIIDLTK ALYEAGER
ANXA1	annexin A1	HPA028519	RDESLKVDEHLAK DLGLES TLISSK PQSHSLSTSGK DLFVAER LAYQGQDTPVELMDIGLR
ANXA3 ARRHGEF12	annexin A3 Rho guanine nucleotide exchange factor 12	HPA011271 HPA013398 HPA018911	APLQGTLLGYR MIYLQTLAK VVACTSAFLWDPKTKVPPR LYYDGEWYIR
AXL	Tyrosine-protein kinase receptor UFO	HPA037422	VADLEEEGLEEEK GADINAEAPK ITAEAEISHWISGNAASDK LMEVEQDQR
BCR/BCR/ABL fusion BLVRB BRMS1L CAMK4	Breakpoint cluster region protein biliverdin reductase B (flavin reductase (NADPH)) Breast cancer metastasis-suppressor 1-like protein Calcium/calmodulin-dependent protein kinase type IV	HPA038337 HPA041937 HPA046623 HPA011753	VAVEWDKDHGVLESHLAEK EGNPEEDLTADKANAAQAALYK HDLPLEGAK VGSDPVLMR
CAMKV	CaM kinase-like vesicle-associated protein	HPA007656	LNFGMRL TVYTNLLSSSVLGG EYEGGLQQDANENVHPMSPDTK QSLQVIESAMERDR
CANT1 CAPG CBLB;DKFZp779A0729	calcium activated nucleotidase 1 capping protein (actin filament), gelsolin-like E3 ubiquitin-protein ligase CBL-B	HPA019639 HPA019092 HPA019880	GLVYETSVLPDPEGIR GFSIPECCOK EDKSPIAPEELALVHNLK REDKSPIAPEELALVHNLK EDKSPIAPEELALVHNLK SPIAPEELALVHNLK SPIAPEELALVHNLK KAYLPOELLGK
CCL27 CDKL3	C-C motif chemokine 27 Cyclin-dependent kinase-like 3	HPA042918 HPA007446	VHAIQCDVRDPMVQNTVSELIK AALRPTDVVLEVGPGTGNMTVK LCQFSVQLESEQTPE TSPDK ESSLPSKEALEPSEGENVIQNK
CLPP CS	ClpP caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli) Citrate synthase, mitochondrial;Citrate synthase	HPA010649 HPA038461	EALPSPGENVIQNK FPGSAPQQHSILSNQTSK LENSPVENVTAASTLLSQAK QNTNIIDVQISTPRPVK VQMTWSYPDEK QLLSFGNPR WGDAGA EYVVESTGVFTTMEK QLTQNFLSHTGADLPIEVPFR
DAP3	death associated protein 3	HPA023687	FNLPTPTVENQQR LQAEFSDMIANSLOK APVLPPELPIQPK DFQEDVEK
DECR1 DIMIT1 DUSP16 ERLIN1	2,4-dienoyl CoA reductase 1, mitochondrial DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae) Dual specificity protein phosphatase 16 ER lipid raft associated 1	HPA023238 HPA042944 HPA020326 HPA011252	FGVPAEGR LYSISQVSSAVMK DLEQGDVSETIR IFNCNPDDMAR VFFEQSK TQIQDFLR QQLLQOQMLADA EK TINDQDFLYTAR VDYGSFAEVR SYIQSLPOTPR DFTQLFPR
ESCO1	N-acetyltransferase ESCO1	HPA042497	KPPEFEGGESLSSGNLCQR YDEVMATYILLGR FSDHAGPSIPPAVSYTK IVEGDTPLSPER NPSLRPSAIEIK ELNAIMESMLNK ADTALASIPPAEKG AHPPTQILNR ETVPVELEPK
FLT1	Vascular endothelial growth factor receptor 1	HPA014290	QESIFQAEEMSEHLAGFK IPISLVR GVAVDYLPER AQSLPSDQPVGTGFSPLTSDTSSPQK
FYN GAPDH GRK6 GUCY2C	Tyrosine-protein kinase Fyn Glyceraldehyde-3-phosphate dehydrogenase G protein-coupled receptor kinase 6 Heat-stable enterotoxin receptor	HPA023887 HPA040067 HPA018903 HPA037655	SSGGLQEPMMFPGASAFK KVELFHYQDGAFTHEYNR VELFHYQDGAFTHEYNR GYPTFHYYHYGK
HECTD2	Probable E3 ubiquitin-protein ligase HECTD2	HPA037767	ELDPNQPLESK HIFLIR TLTPLGR EQAELTGLR
HSPB8 IL16 LIG3	Heat shock protein beta-8 Pro-interleukin-16;Interleukin-16 DNA ligase 3	HPA015876 HPA018467 HPA006723	YINPAATK WENPTONNAGLEDFER YAGEQGLQYPTHINPSASHSDTPETEEMK GHNTNVAIVFHPK QMVEDYQWLR EEAQQWLWEAK ELSHEDLEPPPEHIPPPRPPKR ELSHEDLEPPPEHIPPPRPPK
MAML2 MAP3K4	Mastermind-like protein 2 Mitogen-activated protein kinase kinase kinase 4	HPA035223 HPA007625	TAPYPPQNISVR TAPYPPQNISVR GVQQVFCAVR TDVNLNLENGLEPAETHSMVR VVISFENYR
MAPK13	Mitogen-activated protein kinase 13	HPA007667	EFEDDLVK SGGGGDHOGFQSLLETVNK HINTWVAEK IEEEEEVEQELLSHSWGR SASF AFEFPK LNLQ TGER WVEFYHYR TGQYSGIDCAK
MARK1	Serine/threonine-protein kinase MARK1	HPA008061	DDLPELAGPALTVPASLKPTASGR LTTLELLLPK SEVNGQILLK YMNSSGLLTMSLER
NEK11	Serine/threonine-protein kinase Nek11	HPA016908	SSQLYLR VGHFDPVTR TVSVLDPYYRPR VNPFSAR TIWLSR
OTUD4	OTU domain-containing protein 4	HPA036623	IIQDTLMLK LTATGILLHPWLR QDPMPLAPTR
OTUD6A OXSR1 P4HA1 PAK6 PAK7 PDIA5	OTU domain-containing protein 6A Serine/threonine-protein kinase OSR1 prolyl 4-hydroxylase, alpha polypeptide I Serine/threonine-protein kinase PAK 6 Serine/threonine-protein kinase PAK 7 protein disulfide isomerase family A, member 5	HPA053304 HPA008237 HPA026593 HPA031124 HPA020444 HPA030354	ELDPNQPLESK HIFLIR TLTPLGR EQAELTGLR
PDZRN3 PGAM5	E3 ubiquitin-protein ligase PDZRN3 Serine/threonine-protein phosphatase PGAM5, mitochondrial	HPA038822 HPA036978	YINPAATK WENPTONNAGLEDFER YAGEQGLQYPTHINPSASHSDTPETEEMK GHNTNVAIVFHPK QMVEDYQWLR EEAQQWLWEAK ELSHEDLEPPPEHIPPPRPPKR ELSHEDLEPPPEHIPPPRPPK
PPIL2 PRKACB PRK01 PRPF4 PTK2B	Peptidyl-prolyl cis-trans isomerase-like 2;Peptidyl-prolyl cis-trans isomerase cAMP-dependent protein kinase catalytic subunit beta Serine/threonine-protein kinase D1 PRP4 pre-mRNA processing factor 4 homolog (yeast) Protein-tyrosine kinase 2-beta	HPA035344 HPA029754 HPA029834 HPA022248 HPA026091	YINPAATK WENPTONNAGLEDFER YAGEQGLQYPTHINPSASHSDTPETEEMK GHNTNVAIVFHPK QMVEDYQWLR EEAQQWLWEAK ELSHEDLEPPPEHIPPPRPPKR ELSHEDLEPPPEHIPPPRPPK
PTPN1	protein tyrosine phosphatase, non-receptor type 1	HPA012542	TAPYPPQNISVR TAPYPPQNISVR GVQQVFCAVR TDVNLNLENGLEPAETHSMVR VVISFENYR
PTPRO RHOH RIN2 RIOK3 RNMT SERPINB6	Receptor-type tyrosine-protein phosphatase O Rho-related GTP-binding protein RhoH Ras and Rab interactor 2 Serine/threonine-protein kinase RIO3 mRNA cap guanine-N7 methyltransferase serpin peptidase inhibitor, clade B (ovalbumin), member 6	HPA034525 HPA030345 HPA034641 HPA024184 HPA039409 HPA009668	SSQLYLR VGHFDPVTR TVSVLDPYYRPR VNPFSAR TIWLSR
SGK223	Tyrosine-protein kinase SgK223	HPA012066	IIQDTLMLK LTATGILLHPWLR QDPMPLAPTR
SIL1 SIRT5 SLC25A24 SNRK STAT2 STK31	SIL1 homolog, endoplasmic reticulum chaperone (S. cerevisiae) NAD-dependent protein deacetylase sirtuin-5, mitochondrial solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 SNF-related serine/threonine-protein kinase Signal transducer and activator of transcription 2 Serine/threonine-protein kinase 31	HPA011302 HPA022992 HPA028519 HPA042163 HPA018888 HPA023194	SSQLYLR VGHFDPVTR TVSVLDPYYRPR VNPFSAR TIWLSR
STK35 STUB1 TESK2	Serine/threonine-protein kinase 35 STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase Dual specificity testis-specific protein kinase 2	HPA051673 HPA041222 HPA027257	IIQDTLMLK LTATGILLHPWLR QDPMPLAPTR
TLK1 TRIB3	Serine/threonine-protein kinase tousled-like 1 Tribbles homolog 3	HPA016043 HPA015272	LW AHVYAGAPVSSPEYTK NAVIVALSSK FIIFLR RIPYAPSGEIPK
UBE2K	Ubiquitin-conjugating enzyme E2 K	HPA028869	LW AHVYAGAPVSSPEYTK NAVIVALSSK FIIFLR RIPYAPSGEIPK
UBE3B UGDH	Ubiquitin-protein ligase E3B UDP-glucose 6-dehydrogenase	HPA041012 HPA036656	LW AHVYAGAPVSSPEYTK NAVIVALSSK FIIFLR RIPYAPSGEIPK