

S2 Table. Evidence supporting the transcription and translation of *de novo* protein-coding genes in human

Gene ID	EST / mRNA	Iso-Seq	Peptides (ID)*
ENSG00000136242	1		MFMAAAAVAVGAARRPR (PXD000158)
			SPVSRKMFMAAAAVAVGAAR (PXD000158)
			<u>GQGRGRTAGARARGAPWES (8476)</u>
			<u>KMFMAAAAVAVGAAR (8653)</u>
ENSG00000162968	1		APFKELATPLTCKQPPTLK (PXD000158)
			ELATPLTCKQPPTLKLIR (PXD000158)
			<u>VFHPKGLCCGR (8667)</u>
			<u>GLCCGRCS DPR (8667)</u>
ENSG00000175913	2		AHTRTTQYTEQDSVVTAR (PXD000451)
			EGEGRCEQVALSSGPPGALHASR (PXD000036)
			<u>PESIFVPTAQDGAQMVCK (PXD000158, 8670)</u>
			PSTGETFVQSGRWDGGWR (PXD000158)
			PSTGETFVQSGRWDGGWRGAMK (PXD000158)
			QASTPPTRPESIFVPTAQDGAQMVCK (PXD000343)
			TTQYTEQDSVVTARGLLDAKR (PXD000158)
			<u>TACNITAWGGFEGK (8670)</u>
<u>HRQASTPPTR (10281)</u>			
ENSG00000176833	1		ARSAAKLSQVCVTMCAFICV (PXD000158)
			ASHSNPSELGGPHSAGFYELLR (PXD000158)
			ASHSNPSELGGPHSAGFYELLRR (PXD000158)
			MQMTQRSHHFLVWGGGGRK (PXD000158)
			<u>QSPINVQSDAGETEKGR (PXD000158, 673)</u>
			<u>SAAKLSQVCVTMCAFICV (1624,8661,8664,8670)</u>
<u>LSQVCVTMCAFICV (8669)</u>			
ENSG00000176911	1		KDVGWSLGIHPWSSGYPR (PXD000158)
			LCTCAQAPAAGVPSTAQLFMK (PXD000158)
			LCTCAQAPAAGVPSTAQLFMKNR (PXD000158)
			VKPRSPTNTHAHLELTLVK (PXD000158)
			<u>RNAEWHVHMEYYAAENMNNWSHGMNEAER (203)</u>
ENSG00000180838	1		PPTHGCARSSTAPPAGCSSPPAGSPR (PXD000158)
			SSTAPPAGCSSPPAGSPR (PXD000158)
			SSTAPPAGCSSPPAGSPRCSPGLCR (PXD000158)
			<u>CSPGLCRSSTAGQCLWGGVGGASEAAP (156)</u>
ENSG00000187488	3	25	<u>AQEV PALGTASSVAPAR (489)</u>

		<u>KAPRSWDSATPSEMLCPF (8543)</u>
		IILEKMQSDDVLDGNRER (PXD000158)
		INMETSIIILEKMQSDDVLDGNR (PXD000036)
		MGIGTGHTSMNKGK (PXD000158)
		MGIGTGHTSMNKGKDVTLLELSVEK (PXD000158, PXD000451)
ENSG00000196273	5	MQSDDVLDGNRERSNER (PXD000158)
		YIKTGKSIQVEGTVR (PXD000158)
		<u>IILEKMQSDDVLDGNR (96, 97)</u>
		<u>IILEK (3651)</u>
		<u>MGIGTGHTSMNK (8660)</u>
		<u>SNERGRDSLSEK (9330)</u>
ENSG00000197916	1	CAPSHPANVYFFVERVSLTMLPRLVLK (PXD000158)
		PSSHLSLQSSWEHKCAPSHPANVYFFVER (PXD000158)
		<u>QGLACGR (8666)</u>
ENSG00000204079	1	GSHGSLGEAPWGKSVPGRTASR (PXD000158)
		HQCSGDLEVRGSHGSLGEAPWGK (PXD000158)
		SLISAWATYQDLISINK (PXD000158)
		SLISAWATYQDLISINKLKEK (PXD000158)
		<u>HCMASGAVLNK (8668)</u>
		<u>MISVHCNLCPLGSSDPPASASQVAGITGVR (8669)</u>
ENSG00000204292	2	<u>MMLSIRVPGQPAALR (8668)</u>
		<u>RMMLSIR (8668)</u>
ENSG00000204380	3	AIGWHTSAFSPDCSLELR (PXD000158)
		ILFSNAFLTLAHRQLIR (PXD000158)
		SAPGPVLSSSLHSPR (PXD000158)
		<u>RMVPPRPDSLTLGRSSYAS (8538)</u>
		<u>DLGVSLFPFPRS (8658, 8670)</u>
		<u>SAPGPVLSSSLHSPRLLLLVFNTTYGHR (8670)</u>
ENSG00000205373	1	SLTSEDAGAGLAGALAASSRQPRKLGRCRQD (8543)
		VPLFRISLTSEDAGAGLAGALAASSR (86628670)
		MTATLGSRGAAPGGSANSHGPS DPR (86628670)
		<u>LPSEAGAGGASPSR (8672)</u>
ENSG00000205557	1	VGVLGHLWPVTKVTR (PXD000158)
		<u>SLVTL SAHQGR (8663)</u>
ENSG00000205965	1	MIGNMKTARPGWSSGK (PXD000158)
		MWWHLCTHSAVHPPTPSSFK (PXD000158)
		RSPAPPASPPGGR (PXD000158)
		<u>PLSLWVGLGNWRGGR (8660, 8665)</u>
ENSG00000206028	2	EGDQPPGGAQSSAGLGLVR (PXD000158)
		PGPVSDLTANMGQSGTSVYR (PXD000158)
		PGPVSDLTANMGQSGTSVYRASSPR (PXD000158)

			SEHSTSGQTSADTHRSR (PXD000158)
			<u>AIPCLRPGPVDSDLTANMGQQSGTSVYR (8666)</u>
			<u>DVILRVQPPTSTGPPLPPLSLVNR (8670)</u>
			<u>PTGLHTHVPEISLVPPTPSGNQTSAHRR (8671)</u>
			<u>VQPPTSTGPPLPPLSLVNR (8671)</u>
ENSG00000206096	1		MRTVFPLPQVGHRRP (PXD000158)
			QNPSEEMVASVQDTNQHGNLHYR (PXD000158)
			VVCSSQLSFFLVTSPSPLGR (PXD000158)
			<u>TVFPLPQVGH (8667)</u>
			<u>QNPSEEMVASVQDTNQHGNLHYRMR (8667, 8668)</u>
			AGGQGTETLEASREK (PXD000158)
			GQKSLIQSQGQALRLK (PXD000158, 1904)
			<u>KSQMLEDASSMLQSSEK (PXD000158, 8659, 8668, 8669)</u>
ENSG00000206110	1		LGRGQKSLIQSQGQALR (PXD000158)
			MFFSIQLHGETFPGFSPR (PXD000158)
			SQMLEDASSMLQSSEKWL (PXD000158)
			WRAGGQGTETLEASR (PXD000158)
			WRAGGQGTETLEASREK (PXD000158)
			CSWHPECVSGQALVKEALAGTR (PXD000158)
			DMTSTLRFHPQSTQMR (PXD000158)
			DMTSTLRFHPQSTQMRR (PXD000158)
			EALAGTRDMTSTLRFHPQSTQMR (PXD000158)
			MGRCSWHPECVSGQALVKEALAGTR (PXD000158)
			RVSPGAPPCPTPLGGILSR (PXD000158)
ENSG00000206113	1		RVSPGAPPCPTPLGGILSREMGPSPR (PXD000158)
			VSPGAPPCPTPLGGILSR (PXD000158)
			VSPGAPPCPTPLGGILSREMGPSPR (PXD000158)
			VSPGAPPCPTPLGGILSREMGPSPRR (PXD000158)
			<u>MGRCSWHPECVSGQALV (3268)</u>
			<u>EMGPSPR (8653)</u>
			<u>GLPVTWSQLPPR (8653)</u>
ENSG00000212693	1		<u>YPSSGLVSMTGFGDVPDHMKWFMFR (8234)</u>
			<u>CILHLCLPLTECFACASR (8669)</u>
			<u>VCOLYMHSSLNILGFMTDIEIITOMCLTAK (8670)</u>
ENSG00000214780	2		EGKGLVQSHTGTLWAGPLQEGTQGQT (PXD000158)
			GLVQSHTGTLWAGPLQEGTQGQT (PXD000158)
			<u>LRREGKGLVQSHTGTLWAGPL (8538)</u>
ENSG00000218478	3	4	<u>MYFCGLGVRWGWGR (8667,8664,8667)</u>
			<u>VLSTDPAAHPCAVR (8667)</u>
ENSG00000223857	2	5	AEVGGGPASEEYARRLAGCCPR (PXD000158)
			ARDSGLASGTRAEVGGGPASEEYAR (PXD000158)

			DSGLASGTRAEVGGGPASEEYAR (PXD000158)
			GSLPSPPAFPPGIATR (PXD000158)
			PWPLDRGSLPSPPAFPPGIATRATR (PXD000158)
			SACRARDSGLASGTR (PXD000158)
			<u>MSGGHSSPEPPR (8653)</u>
			ESLVSRLRTQGTHLGLER (PXD000158)
			GWAGRVSLSLGMGTASPGSR (PXD000158, 8662)
			VEGGDAVLRWSSAFSLPQSPGR (PXD000158)
ENSG00000224013	4	2	YGSVCGFCNKGWAGR (PXD000158)
			<u>LTGLMAGDR (2026)</u>
			<u>TQGTHLGLER (8653)</u>
			<u>GGEPPGPPRESLVSRL (8660)</u>
			<u>VSLGMGTASPGSRGGEPPGPPR (8670)</u>
			AGKSGWLGCSSSLANSLLTSFFAHFVTK (PXD000158)
ENSG00000225021	1		HTLASSLLISVGHSTK (PXD000158, 8669)
			MNSLTVMRVWDHSSSVYLEPTSTGTVRQPAISWIYSK (PXD000158)
			VWDHSSSVYLEPTSTGTVR (PXD000158)
			AEKETRSQCECALSNQLK (PXD000158)
			EDSLSHLSGAGCLFSLDIR (PXD000158)
			EDSLSHLSGAGCLFSLDIRLQGLWLLDSR (PXD000158)
ENSG00000225860	1		MPQWLVASIIPGCVCESVSR (PXD000158)
			SQCECALSNQLKARLGTNR (PXD000158)
			TCTNGLPGPSGLQPPTK (PXD000158)
			VCAVGLPDSEASGLGLR (PXD000158)
			<u>LQGLWLLDSRTCTNGLPGPSGLQPPTK (8665)</u>
			MQPGCAVPQSGRLRGSSR (PXD000036, PXD000158)
			QPLATTVSLLCRFTWGWTSPPQLWR (PXD000036)
			ELGQLHNRWGRAGEGPR (PXD000036)
			FTWGWTSPPQLWRVTPQRAWCR (PXD000036)
			GSSRGPGRSGPGMAAAGGSSAVEPR (PXD000036, PXD000158)
			SGPGMAAAGGSSAVEPRRGRHHR (PXD000079)
			SVLWQFPKHLGKKEGQLHNR (PXD000079)
ENSG00000225917	4		AGAARQVLALLARPRRR (PXD000079)
			GSSRGPGRSGPGMAAAGGSSA (PXD000079)
			GPGRSGPGMAAAGGSSAVEPRR (PXD000158, PXD000451)
			GWRAGGLSTLSFGTGVR (PXD000158)
			<u>SGPGMAAAGGSSAVEPRR (PXD000158, 8670)</u>
			CPQSARCPAVRSGPLLQTR (PXD000158)
			SGPLLQTRCPECAGAAR (PXD000451)
			<u>MQPGCAVPQSGR (8670)</u>
ENSG00000230294	2		EWSSCLHQASLLWRK (PXD000158)

			GPQAVAGWGDAPALSWSLPR (PXD000158)
			HLLFSLTCSLMTARLLDMVPR (PXD000158)
			KHLLFSLTCSLMTAR (PXD000158)
			TLSQGPYSQYPSPHHL (PXD000158)
			WLLLPHEGHSPAQAPR (PXD000158)
			<u>AAQCMCWLHRDVPYER (8653)</u>
			<u>MTSNLGSPGPQR (8653)</u>
			GNPSLPAPPQPMRR (PXD000158)
ENSG00000235766	2	21	GNPSLPAPPQPMRRLTFGPGPAPASDR (PXD000158)
			RLTFGPGPAPASDRP (PXD000158)
			<u>TLPASPSAGTPLWGAGHVLGDAGESPLPSHPCPNR (21)</u>
			AGTGWGQAGLAGSCADPPR (PXD000158)
			MGAQSGPLPQTEPWPLK (PXD000158)
			PGAPPSTHINKERDSFR (PXD000158)
			STQQGFKVSNWFGTQPGPPKETK (PXD000158)
ENSG00000236314	3		VDSEAAAPPAASVSSQAR (PXD000158)
			VPWEAVGLAVAAVSCSQASPASPGSRR (PXD000158)
			VSNWFGTQPGPPKETKAGTGWGQAGLAGSCADPPR (PXD000158)
			<u>RPGAPPSTHINK (23)</u>
			<u>AGTGWGQAGLAGSCADPPRVPWEAVGLAVAAVSCSQASPASPGSRR (338)</u>
			<u>VDSEAAAPPAASVSSQARSQAR (8657,8662)</u>
ENSG00000205056	3		FSKLLLKILFYISIFS (PXD000079)
			ILFYISIFSYPELMCEQYVTFIKPGIHYGQVSKK (PXD0000451)
			<u>EQSQKPCSNNGPAAAGEGR (PXD000158, 8663)</u>
			HTDPNFPNSNAVGTSSGWN (PXD000158)
			<u>IGTGCSHTWDWR (8661,8664)</u>
ENSG00000178803	3		<u>MEQDWQPGEEVTPGPEPCSK (8663)</u>
			<u>PCSNNGPAAAGEGR (69,73,74,75,76,8653,8661,8664,8667)</u>
			<u>PCSNNGPAAAGEGRVLPSPCFPWSTCQAAIHK (8663)</u>
			<u>WQGCTRPALLAPSLATLK (8668,8672)</u>
			NPHSWGIIKAHGLRPPWAPR (PXD000158)
			RTHSDTQATGWPPPQR (PXD000158)
			SCPPSLCGGAAQTGDPVALPHGPEK (PXD000079)
ENSG00000204626	1		THSDTQATGWPPPQR (PXD000158)
			WVWGGGLSPRNPHSWGIIK (PXD000158)
			<u>WQGCTRPALLAPSLATLK (8668; 8672)</u>
			<u>NPHSWGIIKAHGLR (8670a)</u>
			<u>LERCMVPESEWAPWQPQLPCEPK (8670b)</u>
ENSG00000198547	6		AMGGMPRMGTVDGDFGQALSSLAWTSTCFQDFCLPSLPGK (PXD000036, PXD000158)
			ATSVLAGLTAHLWDLGGGAGRRTSK (PXD000036, PXD000158)

			GDFGQALSSSLAWTSTCFQDFCLPSLPGK (PXD000079)
			GRAMGGMPRMGTVGDFGQALSSSLAWTSTCFQDFCLPSLPGK (PXD000036)
			IWVGEGWGEVGGRLRSKVGR (PXD000036)
			LAGLTAHLWDLGGGAGR (PXD000079)
			LASFPFTKTGMLSRATSVLAGLTAHLWDLGGGAGR (PXD000451)
			LPAPLISKQQFLSNSSR (PXD000451)
			MFPRPVLNSRAQAILLPQPPNMLDHR (PXD000451)
			PNMLDHRQWPPRLASFPFTK (PXD000079)
			PVLNSRAQAILLPQPPNMLDHR (PXD000036)
			QPPPPQHGPYQERIWVGEGWGEVGGGLR (PXD000036)
			<u>CTSKAQRVHPQPSHORQ (N.A.)</u>
			CGKCVKMQLGSTLK (PXD000036)
			KQVSWIIFLKIGAGCQVHVGHDCSTLR (PXD000158)
			MHYGRKQVSWIIFLKIGAGCQVHVGHDCS (PXD000079)
			MQILGSTLKLFRHPPSQ (PXD000079)
			MQILGSTLKLFRHPPSQVTR (PXD000158)
ENSG00000145063	5		QVSWIIFLKIGAGCQVHVGHDCSTLR (PXD000158)
			WTLSGSQQTGCVALT (PXD000451)
			WTLSGSQQTGCVALTVPSFPWVASRMHYGR (PXD000158)
			WTLSGSQQTGCVALTVPSFPWVASRMHYGRK (PXD000451)
			<u>LWGRHHLK (8653)</u>
			<u>MHYGRKQVSWIIFLK (9327)</u>
			<u>MQILGSTLKLFR (8653)</u>
			DSLMLFTRQAGHFVEGSKAGR (PXD000036)
			GVSFLTFLHQSVPLGDRD (PXD000079)
			ICVITYTPALPIGLCTR (PXD000158)
			<u>CCLCLEQSPSWCHCLR (PXD000158, 8653, 8663, 8670)</u>
			GVSFLTFLHQSVPLGDRDSLMLFTRQAGHFVEGSK (PXD000451)
			HGLSMEIMWARMDVALR (human_proteome_map.peptidealtas)
ENSG00000172927	>10	3	<u>ACLTLRHPTPHCSTWGLPLR (8659)</u>
			<u>DSLMLFTRQAGHFVEGSK (8666)</u>
			<u>GAQTGAGLSQEAEDVDVSR (8670)</u>
			<u>GVSFLTFLHQSVPLGDR (8653; 8658)</u>
			<u>MALRICVITYTPALPIGLCTR (8671)</u>
			<u>MDVALRSPGR (8658)</u>
			<u>VGVEQAISSCPEEVHGRHGLSMEIMWAR (8658)</u>
			<u>VTDAPQGTLCGTGNR (8662)</u>
			ACGLPSECGSLVRARASPR (PXD000158)
ENSG00000177822	>10	1	GGDWCALSLVAPAASRHPPLSASEQR (PXD000158)
			HPPLSASEQRIPPTSTCTCTR (PXD000158)
			RGGDWCALSLVAPAASR (PXD000158)

			<u>ACGLPSECGSLVRAR (8668)</u>
			<u>PGLPRPSPTCPWK (8653)</u>
			<u>RDPSGSFR (8668)</u>
			ALGSLSSLMPFRRSPAALTPGLLR (PXD000158)
			<u>RSPAALTPGLLRPLAK (PXD000158, 288, 333)</u>
			SPAALTPGLLRPLAK (PXD000158)
			VCSPMDAGRGLSLSALTQLR (PXD000158)
ENSG00000179522	>10	7975	WGGMLAWPPAAPARALGSLSSLMPFRR (PXD000158)
			WGGMLAWPPAAPARALGSLSSLMPFRR (PXD000158)
			<u>EQAPRVSAAPPGR (8665)</u>
			<u>FLTNKWGGMLAWPPAAPAR (8665)</u>
			<u>PQSSHLLPPVYPPAPLPPPKDVPLQ (8665)</u>
			<u>MQICFLALWGGTMAVATSAETALRTSYASLK (8663)</u>
ENSG00000215071	2		<u>SPWGLDNILAPRDVSNYK (10531, 8657)</u>
			RPEFLSRPSVQTEDAPSK (PXD000158)
ENSG00000182457	>10	7	<u>KETTTEQALPPALLGIR (8658)</u>
			<u>PEFLSRPSVQTEDAPSK (8653, 8663, 8669)</u>
			MDTGSREAAFRDLPR (PXD000158)
			PADAQVSPEMSITHKEKENAHLK (PXD000158)
			DLPRKPADAQVSPEMSITHKEK (PXD000451)
ENSG00000174407	1		<u>EMSITHKEKENAHLKEILLFVNAEAFSQPHSAPVCEG (8531)</u>
			<u>KPADAQVSPEMSITHK (8671)</u>
			<u>LLCYGWSHC (9328, 9342)</u>
			<u>FVDMEFLDOMILR (8662)</u>
ENSG00000203930	>10		<u>MPELEKFDMEFLDOMILR (8670)</u>
			HFLGTGKPPHPLGRSIP (PXD000079)
ENSG00000204091	>10		SIPVEPCPLPAFAEVDLLSLVPIKISSTPPSGSR (PXD000158)
			<u>ISSTPPSGSR (8653)</u>
			AIHAAASISCGSIK (PXD000158)
			AIHAAASISCGSIKYVL (PXD000158)
			ILPRLSDSLMNYPSQSTAGAR (PXD000158)
			LSDSLMNYPSQSTAGAR (PXD000158)
ENSG00000204666	3		MSLDGALKDLANGGLDLGSASHAK (PXD000158)
			<u>APEGDGPLMADAGETLASGGPRVEHTK (8672)</u>
			<u>SWLILASVCGVEKAIHAAASISCGSIKYVL (8671)</u>
			<u>VEHTKSWLILASVCGVEK (8659; 8667)</u>
			MPLPGTPGPVTTSPQTPTPR (PXD000036, PXD000158)
			ILSGKGGGSARAVSK (PXD000158)
ENSG00000204674	1		MPLPGTPGPVTTSPQTPTPRPLTTDWRILSGK (PXD000158)
			SQEEAAPPSPRPQSR (PXD000158)
			<u>AHAQTTNPYWADTNTR (9299)</u>

			<u>ILSGKSGGSAR (8653)</u>
			<u>KSQEEAAPPSPRPQSR (9331)</u>
			<u>LRSSSSGNLLR (8653, 9333)</u>
			<u>PLTTDWRILSGK (8661, 8664)</u>
			<u>RILSGKSGGSARAVSK (8409)</u>
			AWQLSGSPSSYRQSGVK (PXD000158)
			AWQLSGSPSSYRQSGVKWTVK (PXD000158)
			CCDLPISPFLSQPR (PXD000158)
ENSG00000212736	1		<u>MLNWLAQIQIAKSGR (PXD000158, 8659)</u>
			MLNWLAQIQIAKSGRAWQLSGSPSSYR (PXD000158)
			SGRAWQLSGSPSSYR (PXD000158)
			SGRAWQLSGSPSSYRQSGVK (PXD000158)
			VQLLLDGGTFQSLVR (PXD000158)
			ETWAWLSRTDTAWPGAPGVKQAR (PXD000158)
			LGEEPPPLPYCDQAYGEELSIR (PXD000158)
			LLSMVPGPARPPGSCWDPTQCTR (PXD000036)
			<u>MTVLEAVLEIQAITGSR (PXD000158, 8666)</u>
			MTVLEAVLEIQAITGSRLISMVP (PXD000079)
ENSG00000167747	>10	40	MTVLEAVLEIQAITGSRLISMVPGPAR (PXD000036)
			PPGSCWDPTQCTRWLLSHTPR (PXD000036)
			WISGLPRASCRLGEEP (PXD000079)
			TVLEAVLEIQAITGSR (human_proteome_map.peptidealtas)
			<u>ASCRLGEEPPPLPYCDQAYGEELSIR (9335)</u>
			<u>TDTAWPGAPGVKQAR (608)</u>
			ATETKENFQKESMVK (PXD000036, PXD000451)
ENSG00000214112	>10		SEQLGTGGDQDWQLQHTR (PXD000158, PXD000451)
			<u>LGROIQPPWPLAHAR (8665)</u>
			<u>AAAFLLHAAQGSSMPGAGMR (3669, 3674, 8653)</u>
			<u>EVSLDSR (2674)</u>
ENSG00000214130	6		<u>FCSLLAILASPNERALK (8660, 8663, 8669)</u>
			<u>LAPPR (8653)</u>
			<u>MAMAHAGLCGWR (8653)</u>
			AFSQCSALTLHQRIHTGKK (PXD000036, PXD000158)
			AFSTCTDLIEHQKTHAEEK (PXD000158)
			APTLFFIRESTLERNLMHVIVLK (PXD000036)
			AQTSLNIREYTLVKSLIIAIVVR (PXD000158)
ENSG00000118267	>10	11	CDACGKAFSTCTDLIEHQKTHAEEK (PXD000158)
			CLVEDEILLNITEFIQVRNPMNVMNVGK (PXD000036)
			CLVEDEILLNITEFIQVRNPMNVMNVGKPLVR (PXD000036)
			IQTLLNIEGSTLERNPINVMSVGK (PXD000158)
			NHMHVISVIKVLVKAQTSLNIR (PXD000158)

NLMHVVIVLKALVAVQILLSIK (PXD000158, 8658)
NLMHVVIVLKALVAVQILLSIKEYTLER (PXD000451)
NPMNVMNVGKPLVRAPTLFFIR (PXD000036)
NYYLCTQCSKSFQISDLIK (PXD000036)
PSVGFQILLINEFTLER (PXD000158, 8658)
SDLINHQKIHTGEKPYK (PXD000158)
SLTHVISAIAKCLVEDEILLNITEFIQVRNPMNVMNVGK (PXD000036)
THAEKPYQCVQCSR (PXD000158, 8658)
VRKPLVCTPTLFSTRDTVPEKNLMNAVDY (PXD000079, 8665)
VSVRIQTLLNIEGSTLERNPINVMSVGK (PXD000036, 1805)
YYLCTQCSKSFQISDLIK (PXD000036, PXD000158, 1831)
AFSTCTDLIEHQK (8658, 1789; 1828; 1830; 1831)
CDACGKAFSTCTDLIEHQK (2027,8665)
ECGKSFSR (1805,8660)
HQRIHTGK (1831,8663)
IHTGEKPY (1789, 1828, 1830, 1831, 8663; 8665; 8671)
IHTGKK (2027,8658)
NPIPVINVAK (8660)
PLVCTPTLFSTRDTVPEKNLMNAVDY (8663)
PNPCDECGKSFSR (8663, 8665, 8671)
PSVRAQILFCIR (8658)
PYKCDACGKAFSTCTDLIEHQK (9308)
QKIHTGEK (76)
SDLIKHOR (1824)

ENSG00000215458

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AAGPGGTGQAECQVVVATHR (PXD000158)
AAGPGGTGQAECQVVVATHRANLKPWDGR (PXD000036)
DANTNRKGP MHGSDFPFR (PXD000158)
DHQGSVEDTSLGGDAPADGVSPSPPLQGLG (PXD000079)
DHQGSVEDTSLGGDAPADGVSPSPPLQGLGK (PXD000158, 146)
ETRSGGPRGPRHSAP (PXD000079)
KGPMHGSDFPRLCLHMSLWGSWGSR (PXD000036)
LALQGPPGTILSLSSSPCLPPSHCDPG (PXD000079)
LCLHMSLWGSWGSR (PXD000158)
LCLHMSLWGSWGSRPPSPAHSREVAS (PXD000451)
LLLQVSFQGAADGCSLR (PXD000036, PXD000158)
PRDHQGSVEDTSLGGDAPADGVSPSPPLQGLG (PXD000079)
RTEEGRLSTSSCASVSR (PXD000158)
LSTSSCASVSR (8663)
PMHGSDFPFR (8385; 8417)
PPSPAHSREVAS (9340)
RASRLALQGPPGTILSLSSSPC (8538)

			<u>RSGGPR (8665)</u>
ENSG00000215494	1		GDSEQSASKSKQAFPLLR (PXD000158)
			GGGQTGTFHMGLLPSR (PXD000158)
			GMEWPLSAWLESSSPAPCMPLWRR (PXD000158)
			HLTGVARGGGQTGTFHMGLLPSR (PXD000158)
			LTQRHLTGVARGGGQTGTFHMGLLPSR (PXD000158)
			MPSQPHLSACSVESPGAAAR (PXD000158)
			<u>MPSQPHLSACSVESPGAAARLTQR (PXD000158, 8669)</u>
			QECAPVSALTTLTTMGR (PXD000158)
			QECAPVSALTTLTTMGRLFSVHWQIWGPCSPCIVYPK (PXD000451)
			<u>KGMEWPLSAWLESSSPAPCMPLWR (8661; 8664; 8669; 8670)</u>
			<u>LFSVHWQIWGPCSPCIVYPKGDSEQSASK (8663; 8669; 8670)</u>
			<u>NSFWESRPSPCR (8653)</u>
ENSG00000215848	>10		GDCVLEVMLHLLSSAQHSGETASSQR (PXD000158)
			GDCVLEVMLHLLSSAQHSGETASSQRPLTAPSTK (PXD000158)
			GGREASALGLVPRLLR (PXD000158)
			KVLEESEWGNISMRR (PXD000158)
			VLEESEWGNISMRRER (PXD000158)
			<u>PLTAPSTK (76)</u>
ENSG00000221953	2		AAVGATPTTGPGTGEGALLGCGSGR (PXD000079)
			AGPDPTSPAPPAGPR (PXD000343)
			AGPDPTSPAPPAGPRSPGSLGPSAAPR (PXD000158)
			AGPDPTSPAPPAGPRSPGSLGPSAAPRTAR (PXD000158)
			GAYELQGGASQDGPQAAV (PXD000079)
			GCRGHFRSLPAAASR (PXD000158)
			GQRGGSGGCQSTRAAER (PXD000036, PXD000158)
			KSSTSCGTWTASGLPSLGHLP (PXD000158)
			KSSTSCGTWTASGLPSLGHLP (PXD000036, PXD000158)
			LLPAEVPPGAAAANFPERER (PXD000079)
			MGLCTLQPLGPPRKSSTSCGTWTASGLPSLGHLP (PXD000451)
			RLLPAEVPPGAAAANFPERE (PXD000079)
			SLPAAASRSGSRTL (PXD000158, PXD000451)
			<u>SSTSCGTWTASGLPSLGHLP (PXD000158, 8671)</u>
			<u>MGLCTLQPLGPPRKSSTSCGTWTASGLPSLGHLP (8667)</u>
ENSG00000221891	3	4	FSACPVSRSWCPERNFSGSIPAVTPPK (PXD000079)
			HGSVLLRHPTTTFVQQR (PXD000158)
			IVFSACPVSRSWCPER (PXD000036)
			IVFSACPVSRSWCPERNFSGSIPAVTPPK (PXD000158)
			LPGHKSSEGPPGKVR (PXD000158)
			NFSGSIPAVTPPKLPGHKSSEGPPGK (PXD000036, PXD000451)
			PGPSAWRASPAGWAGRAKLR (PXD000079)

				PYTLTGGRHGSVSLLRHPGTTTFVQQR (PXD000158)
				RNFSGSIPAVTPPKLPGHKSSEGPPGK (PXD000079)
				<u>GSCPLLPGPSAWR (8666)</u>
				<u>MEGCAVR (8653)</u>
				<u>MEGCAVRRGSCPLLPGPSAWR (9297, 9304, 9305, 9306, 9334, 9335, 9336,</u>
				<u>9337, 9338)</u>
				<u>SWCRASGLPNR (9353)</u>
				MNTYTRSASFPTKTFPLAQNR (PXD000036, PXD000158)
				AECTAKLAGDGHARLASAFLHR (PXD000158)
				<u>DSLPPGLSLTLGKSPK (PXD000158, 1789)</u>
				LGEGGSAPALGPSRRGR (PXD000158)
				PRLGEGGSAPALGPSR (PXD000158)
				TSHPTTTSKLYLGR (PXD000158)
				VSEGLRDSLPPGLSLTLGKSPK (PXD000158)
				<u>AALPPPLGTCRPR (1789)</u>
ENSG00000221899	2			<u>DSLPPGLSLTLGK (2001; 9330)</u>
				<u>LASAFLHR (10049)</u>
				<u>MNTYTRSASFPTK (1789)</u>
				<u>NTYTRSASFPTK (1789)</u>
				<u>RAALPPPLGTCR (8653)</u>
				<u>RAALPPPLGTCRPR (1789)</u>
				<u>VSEGLRDSLPPGLSLTLGK (1789)</u>
				<u>YLGRPSR (96)</u>
				<u>YLGRPSRR (9333)</u>
				RCHHHHEATGAASGAAAGGPGAGCVGLCRLAL (PXD000079)
				FGGRLPVSVEAALPYWVPL (PXD000079)
ENSG00000260456	>10	16		KEVCLPRHSMHPGPWAICC (PXD000079)
				LALTPSAQDGRNSTFQTYKK (PXD000158)
				LPVSVEAALPYWVPLSLR (PXD000158)
				NSTFQTYKKEVCLPR (PXD000451)
				YPRETETIWSHPYVVEGSHK (PXD000036)
				EKGVAQRQVPTTGTHSFFHCTSEGK (PXD000036)
				IHTPEQGSPSLGQNSWGNRKEK (PXD000036)
				SLHGCLAAMAPSITSEDSSPSQRDK (PXD000079)
				EKGVAQRQVPTTGTHSFFHCT (PXD000079)
ENSG00000149443	9			ETETIWSHPYVVEGSHK (PXD000158, PXD000451)
				GVAQRQVPTTGTHSFFHCTSEGK (PXD000158)
				IHTPEQGSPSLGQNSWGNR (PXD000158)
				KRSQGLHWSHWQGLNHMSIR
				(PXD000158, human_proteome_map.peptidealtas)
				QVPTTGTHSFFHCTSEGKKEK (PXD000158)

			SQGLHWSHWQGLNHMSIR (PXD000158)
ENSG00000167159	1		AASGDSQEGMRRGYEER (PXD000158)
			GDKEELTPQKCSEPQSSK (PXD000158)
ENSG00000008517	>10	10	QFQSFCCSLSELFMSSFQSYGAPRGDKEELTPQK (PXD000158)
			SYGAPRGDKEELTPQK (PXD000158)
			SKINPPPWAPACLPGGFPACLPAPK (PXD000036)
			SKINPPPWAPACLPGGFPACLPAPKSSTDSASSCFK (PXD000036)
			GRSKINPPPWAPACLPGGFPACLPAPK (PXD000036)
ENSG00000183250	8	1	MGWDCRRTTVENPSPIRN (PXD000079)
			MGWDCRRTTVENPSPIRNC (PXD000079)
			EFSDDLIPGAGAMG (PXD000158)
			MGWDCRRTTVENPSPIR (PXD000158, PXD000451)
			MLANHALSTPHCACSPAPAPR (PXD000036)
			PTLRMLANHALSTPHCACSPAPAPR (PXD000036, PXD000158)
			SHAPQPPAHLGLGPGCFPAVAVVVPVPGSRAHR (PXD000036)
			GDPPIPPRRSGVLAR (PXD000079)
ENSG00000244291	4	73	MLANHALSTPHCACSP (PXD000079)
			MLANHALSTPHCACSPAPA (PXD000079)
			MLASPARPTLRMLANHALSTPHCACSPAPAPR (PXD000158, PXD000451)
			SHAPQPPAHLGLGPGCFPAVAVVVPVPGSR (PXD000158)
			CVPVEARAAGVFGDRLAGVFGSR (PXD000158)
			MSMAACPEAPEPSFLR (PXD000036)
ENSG00000205913	5		EVPSSPASTQWHRPCNFR (PXD000036)
			MSMAACPEAPEPSFLREVPSASTQWHR (PXD000158)
			NLVWRDVS LGQTSRTPR (PXD000158)
			MFPGLRGPAAQVLENECGSLGRAAEGR (PXD000036)
			MPAVFMLASSALQCGRGVPR (PXD000036)
			MPAVFMLASSALQCGRGVPRFPR (PXD000036)
			GNNASGMGGHRMFPGLR (PXD000036, PXD000158)
			QERSHWHPRGNNASGMGGHRMFPGLR (PXD000079)
			RGNNASGMGGHRMFPGLR (PXD000079)
			AEKVGNTSVIPATSRQAAL (PXD000079)
ENSG00000221990	2	14	MLASSALQCGRGVPRFPR (PXD000079)
			MPAVFMLASSALQCGRGV (PXD000079)
			AEKVGNTSVIPATSR (PXD000158)
			FPRTEVGAGHSVNEETK (PXD000036, PXD000158)
			MPAVFMLASSALQCGR (PXD000158)
			SHWHPRGNNASGMGGHR (PXD000158)
			TEVGAGHSVNEETKAEK (PXD000158)
			TEVGAGHSVNEETKAEKVGNTSVIPATSR (PXD000036, PXD000158)

* peptides with underline were previously reported.