Table S4 List of plasma membrane proteins which were identified in HNSCC spheres or adherent cultured cells identified by LC MS/MS

% AA Coverage	Mean Peptide Spectral Intensity	Protein ID	symbol	sphere	Sequence of Sphere	adherent	Sequence of adherent	Type(s)	membrane prediction total Score
3	2.78E+08	A5A3E0	POTEE/POTEF	2	(R)TTGIVMDSGDGVTHTVPIYEGYALPHAILR(L) (K)SYELPDGQVITIGNER(F)	3	(R)TTGIVMDSGDGVTHTVPIYEGYALPHAILR(L) (K)SYELPDGQVITIGNER(F) (K)DLYANTVLSGGTTMYPGIADR(M)	other	1
4	4.42E+06	O00148	DDX39A	2	(K)GLAITFVSDENDAK(I) (R)DVQEIFR(L)	0		enzyme	0
3	5.35E+06	O00410	IPO5	2	(K)SLVEIADTVPK(Y) (R)LLSSAFDEVYPALPSDVQTAIK(S)	0		transporter	0
3	1.48E+06	O00571	DDX3X	2	(K)TAAFLLPILSQIYSDGPGEALR(A) (K)PLPPSERLEQELFSGGNTGINF(E)	2	(K)TAAFLLPILSQIYSDGPGEALR(A) (K)PLPPSERLEQELFSGGNTGINF(E)	enzyme	0
13	2.79E+06	O14744	PRMT5	4	(K)ADIIVSELLGSFADNELSPEcLDGAQHFLK(D)	0		enzyme	0

					(K)AAILPTSIFLTNK(K) (K)DDGVSIPGEYTSFLAPISSSK(L) (R)DDIIENAPTTHTEEYSGEEK(T)				
7	1.32E+06	O14773	TPP1	2	(R)VPIPWVSGTSASTPVFGGILSLINEHR(I) (R)AYPDVAALSDGYWVVSNR(V)	1	(R)VPIPWVSGTSASTPVFGGILSLINEHR(I)	peptidase	0
7	1.42E+06	O14929	HAT1	2	(R)LLVTDmSDAEQYR(S) (R)YYTEFPTVLDITAEDPSK(S)	0		enzyme	0
13	2.78E+06	O14980	XPO1	8	(K)LVLDSIIWAFK(H) (K)LDINLLDNVVNcLYHGEGAQQR(M) (K)YYGLQILENVIK(T) (R)SNDPQMVAENFVPPLLDAVLIDYQR(N) (K)LNMILVQILK(Q) (R)ETLMEALHYMLLVSEVEETEIFK(I) (R)TNFFLLLQAVNSHcFPAFLAIPPTQFK(L) (R)FLNWIPLGYIFETK(L)	2	(K)LDINLLDNVVNcLYHGEGAQQR(M) (R)SNDPQmVAENFVPPLLDAVLIDYQR(N)	transporter	0
2	1.66E+06	O15031	PLXNB2	4	(K)GTLQQFVDNFFQSVLAPGHAVPPAVK(Y) (K)LQLEQQVATGPALDNK(K) (K)SQLEGLEESVR(D) (R)LFYEDGSGEK(S)	2	(K)LQLEQQVATGPALDNK(K) (R)LFYEDGSGEK(S)	other	3
2	7.63E+05	O15085	ARHGEF11	3	(R)TLGLGSLYGENDLLDLDGDPLR(E) (K)DIWNIFLEK(N) (R)NSVLSDPGLDSPR(T)	0		other	2

13	3.68E+06	O15355	PPM1G	4	(R)GTEAGQVGEPGIPTGEAGPScSSASDK(L) (K)NLPPEEQMISALPDIK(V) (K)ELAQIAGRPTEDEDEK(E) (K)EEPGSDSGTTAVVALIR(G)	0		phosphatase	0
7	2.31E+06	O43242	PSMD3	2	(K)AKPPPGGGEQEPPPPPAPQDVEmK(E) (K)SVFPEQANNNEWAR(Y)	0		other	0
8	3.80E+06	O43390	HNRNPR	4	(R)NLATTVTEEILEK(S) (R)DLYEDELVPLFEK(A) (R)EFNEEGALSVLQQFK(E) (R)LMMDPLSGQNR(G)	8	(K)AGPIWDLR(L) (K)VWGNVVTVEWADPVEEPDPEVMAK(V) (K)YGGPPPDSVYSGVQPGIGTEVFVGK(I) (R)DLYEDELVPLFEK(A) (R)EFNEEGALSVLQQFK(E) (R)KYGGPPPDSVYSGVQPGIGTEVFVGK(I) (R)LmmDPLSGQNR(G) (R)NLATTVTEEILEK(S)	other	0
2	2.62E+06	O43491	EPB41L2	2	(R)GLSPAQADSQFLENAK(R) (K)EPTQAVVEEQVLDK(E)	0		other	3
11	9.98E+06	O43707	ACTN4	7	(K)mLDAEDIVNTARPDEK(A) (K)VLAVNQENEQLmEDYEK(L) (R)ETTDTDTADQVIASFK(V) (R)KDDPVTNLNNAFEVAEK(Y)	0		other	0

					(R)mAPYQGPDAVPGALDYK(S) (R)TINEVENQILTR(D) (R)VEQIAAIAQELNELDYYDSPSVNAR(C)				
4	3.88E+06	O60502	MGEA5	2	(K)LLPGIEVLWTGPK(V) (K)GVLTNPNcEFEANYVAIHTLATWYK(S)	0		enzyme	0
7	2.96E+07	O60812	HNRNPCL1	2	(K)SDVEAIFSK(Y) (K)QKVDSLLENLEK(I)	0		other	0
11	2.94E+06	O75367	H2AFY	2	(K)AASADSTTEGTPADGFTVLSTK(S) (K)GVTIASGGVLPNIHPELLAK(K)	2	(K)GVTIASGGVLPNIHPELLAK(K) (R)HILLAVANDEELNQLLK(G)	other	0
4	8.14E+05	O75390	CS	2	(R)ALGVLAQLIWSR(A) (R)DYIWNTLNSGR(V)	0		enzyme	0
4	1.98E+06	O75533	SF3B1	3	(R)EFGAGPLFNQILPLLMSPTLEDQER(H) (K)LLVDVDESTLSPEEQK(E) (R)AFAVVASALGIPSLLPFLK(A)	2	(R)EFGAGPLFNQILPLLMSPTLEDQER(H) (K)LLVDVDESTLSPEEQK(E)	other	0
7	3.68E+06	O75643	SNRNP200	9	(R)WTELGALDILQMLGR(A) (R)GLIEIISNAAEYENIPIR(H) (K)YPPPTELLDLQPLPVSALR(N) (K)GLFYFDNSFRPVPLEQTYVGITEK(K) (R)NSAFESLYQDK(F) (K)YAQDEHLITFFVPVFEPLPPQYFIR(V) (R)LTAIDILTTcAADIQR(Q) (K)TGNFQVTELGR(I) (R)EEEVTGPVIAPLFPQK(R)	2	(K)TGNFQVTELGR(I) (K)LPDMLNAEIVLGNVQNAK(D)	enzyme	0

9	4.98E+06	P00367	GLUD1	3	(K)GFIGPGIDVPAPDmSTGER(E) (K)HGGTIPIVPTAEFQDR(I) (K)IIAEGANGPTTPEADK(I)	2	(R)DSNYHLLMSVQESLER(K) (K)GFIGPGIDVPAPDMSTGER(E)	enzyme	0
11	1.85E+07	P00533	EGFR	8	(R)GDSFTHTPPLDPQELDILK(T) (K)TIQEVAGYVLIALNTVER(I) (R)ELVEPLTPSGEAPNQALLR(I) (R)IPLENLQIIR(G) (K)EISDGDVIISGNK(N) (K)GSTAENAEYLR(V) (K)EILDEAYVMASVDNPHVcR(L) (R)AcGADSYEMEEDGVR(K)	2	(R)NGLQScPIKEDSFLQR(Y) (R)NLQEILHGAVR(F)	kinase	5
12	3.89E+06	P02545	LMNA	5	(R)MQQQLDEYQELLDIK(L) (R)NSNLVGAAHEELQQSR(I) (R)ITESEEVVSR(E) (K)AGQVVTIWAAGAGATHSPPTDLVWK(A) (R)TALINSTGEEVAMR(K)	2	(R)mQQQLDEYQELLDIK(L) (R)NSNLVGAAHEELQQSR(I)	other	1
3	1.23E+07	P02786	TFRC	4	(R)SAFSNLFGGEPLSYTR(F) (R)YNSQLLSFVR(D) (K)VSASPLLYTLIEK(T) (K)KLNDRVMRV(E)	2	(R)SAFSNLFGGEPLSYTR(F) (K)VSASPLLYTLIEK(T)	transporter	4
4	1.65E+06	P04844	RPN2	4	(K)TGQEVVFVAEPDNK(N)	2	(R)LQVTNVLSQPLTQATVK(L)	enzyme	3

					(R)LQVTNVLSQPLTQATVK(L) (K)TSFTPVGDVFEL(N) (K)TSFTPVGDVFELNFmNVK(F)		(K)TSFTPVGDVFELNFmNVK(F)		
12	2.86E+07	P05023	ATP1A1	8	(R)AVFQANQENLPILK(R) (K)GVGIISEGNETVEDIAAR(L) (K)DMTSEQLDDILK(Y) (R)QGAIVAVTGDGVNDSPALK(K) (R)LNIPVSQVNPR(D) (R)SPDFTNENPLETR(N) (K)EQPLDEELKDAFQNAYLELGGLGER(V) (K)VDNSSLTGESEPQTR(S)	3	(R)QGAIVAVTGDGVNDSPALK(K) (K)DAFQNAYLELGGLGER(V) (R)SPDFTNENPLETR(N)	transporter	4
11	4.05E+06	P05165	PCCA	5	(R)LQVEHPVTEcITGLDLVQEMIR(V) (R)VDSGIQPGSDISIYYDPMISK(L) (K)VVEEAPSIFLDAETR(R) (R)MPVIKPDIANWELSVK(L) (R)IAWDDEETR(D)	0		enzyme	0
14	1.27E+07	P05166	PCCB	5	(K)SVTNEDVTQEELGGAK(T) (K)AYNMVDIIHSVVDER(E) (R)LVPELDTIVPLESTK(A) (R)ISLLLDPGSFVESDMFVEHR(C) (K)LLYAFAEATVPK(V)	0		enzyme	0
17	8.36E+06	P06576	ATP5B	6	(K)TVLIMELINNVAK(A) (R)DQEGQDVLLFIDNIFR(F)	6	(R)DQEGQDVLLFIDNIFR(F) (K)TVLIMELINNVAK(A)	transporter	2

					(R)IPSAVGYQPTLATDMGTMQER(I) (R)VALTGLTVAEYFR(D) (R)AIAELGIYPAVDPLDSTSR(I) (R)IMNVIGEPIDER(G)		(R)AIAELGIYPAVDPLDSTSR(I) (K)VALVYGQmNEPPGAR(A) (R)LVLEVAQHLGESTVR(T) (R)TIAmDGTEGLVR(G)		
7	6.96E+06	P06733	ENO1	2	(K)FTASAGIQVVGDDLTVTNPK(R) (K)LAmQEFmILPVGAANFR(E)	0		transcription regulator	2
5	4.32E+06	P06744	GPI	2	(K)ILLANFLAQTEALMR(G) (K)TLAQLNPESSLFIIASK(T)	0		enzyme	2
15	6.99E+06	P07476	IVL	4	(K)GQLEQPVFAPAPGQVQDIQPALPTK(G) (K)HLEQQEGQLEQLEEQEGQLK(H) (K)QEAQLELPEQQVGQPK(H) (K)HLEQQEGQLEQLEEQEGQLK(H)	0		other	0
4	3.53E+06	P07814	EPRS	3	(K)YNVYPTYDFAcPIVDSIEGVTHALR(T) (K)TGQEYKPGNPPAEIGQNISSNSSASILESK(S) (K)EVIPVNVPEAQEEMK(E)	2	(K)YNVYPTYDFAcPIVDSIEGVTHALR(T) (R)NSEPAGLETPEAK(V)	enzyme	0
29	5.29E+06	P07900	HSP90AA1	0		8	(K)HGLEVIYMIEPIDEYcVQQLK(E) (K)HNDDEQYAWESSAGGSFTVR(T) (K)LGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSR(M) (R)ELISNASDALDK(I) (R)GVVDSEDLPLNISR(E) (R)NPDDITNEEYGEFYK(S)	enzyme	1

							(R)VFImDNCEELIPEYLNFIR(G) (R)YYTSASGDEmVSLK(D)		
15	2.16E+07	P07910	HNRNPC	4	(R)MIAGQVLDINLAAEPK(V) (K)GFAFVQYVNER(N) (K)SDVEAIFSK(Y) (K)QKVDSLLENLEK(I)	1	(R)MIAGQVLDINLAAEPK(V)	other	0
5	2.77E+06	P07954	FH	2	(K)VAALTGLPFVTAPNK(F) (R)AAAEVNQDYGLDPK(I)	0		enzyme	0
25	5.66E+06	P08107		8	(K)AFYPEEISSMVLTK(M) (K)ATAGDTHLGGEDFDNR(L) (K)EIAEAYLGYPVTNAVITVPAYFNDSQR(Q) (K)ELEQVcNPIISGLYQGAGGPGPGGFGAQGPK(G) (K)NQVALNPQNTVFDAK(R) (K)QTQIFTTYSDNQPGVLIQVYEGER(A) (K)SINPDEAVAYGAAVQAAILmGDK(S) (R)IINEPTAAAIAYGLDR(T)	9	(R)IINEPTAAAIAYGLDR(T) (K)ATAGDTHLGGEDFDNR(L) (K)ELEQVcNPIISGLYQGAGGPGPGGFGAQGPK(G) (K)SINPDEAVAYGAAVQAAILmGDK(S) (K)AFYPEEISSmVLTK(M) (R)TTPSYVAFTDTER(L) (K)EIAEAYLGYPVTNAVITVPAYFNDSQR(Q) (K)FGDPVVQSDmK(H) (K)DAGVIAGLNVLR(I)		0
13	3.32E+06	P08195	SLC3A2	9	(K)VAEDEAEAAAAAK(F) (K)DDVAQTDLLQIDPNFGSK(E) (K)GQSEDPGSLLSLFR(R) (R)GENSWFSTQVDTVATK(V)	3	(K)DDVAQTDLLQIDPNFGSK(E) (R)LLTSFLPAQLLR(L) (K)EVELNELEPEK(Q)	transporter	4

					(R)LLTSFLPAQLLR(L) (K)DLLLTSSYLSDSGSTGEHTK(S) (K)ADLLLSTQPGR(E) (K)EVELNELEPEK(Q) (K)EDFDSLLQSAK(K)				
25	7.48E+06	P08238	HSP90AB1	0		7	(K)HSQFIGYPITLYLEK(E) (R)NPDDITQEEYGEFYK(S) (K)LGLGIDEDEVAAEEPNAAVPDEIPPLEGDEDASR(M) (R)VFIMDNcEELIPEYLNFIR(G) (R)GFEVVYmTEPIDEYcVQQLK(E) (K)DQVANSAFVER(L) (R)ELISNSSDALDK(I)	enzyme	0
30	3.48E+06	P08670	VIM	10	(K)ILLAELEQLK(G) (K)VELQELNDR(F) (R)DGQVINETSQHHDDLE(-) (R)EEAENTLQSFR(Q) (R)EmEENFAVEAANYQDTIGR(L) (R)ETNLDSLPLVDTHSK(R) (R)ISLPLPNFSSLNLR(E) (R)KVESLQEEIAFLK(K) (R)LLQDSVDFSLADAINTEFK(N) (R)SLYASSPGGVYATR(S)	8	(R)EmEENFAVEAANYQDTIGR(L) (R)ISLPLPNFSSLNLR(E) (K)FADLSEAANR(N) (K)VELQELNDR(F) (R)SLYASSPGGVYATR(S) (R)ETNLDSLPLVDTHSK(R) (R)EEAENTLQSFR(Q) (R)LGDLYEEEmR(E)	other	1

6	4.42E+06	P08727	KRT19	2	(R)SLLEGQEDHYNNLSASK(V) (R)FGAQLAHIQALISGIEAQLGDVR(A)	0		other	0
10	3.96E+07	P08865	RPSA	2	(R)AIVAIENPADVSVISSR(N) (R)FTPGTFTNQIQAAFR(E)	0		translation regulator	2
17	2.31E+07	P09874	PARP1	11	(R)VVSEDFLQDVSASTK(S) (K)SANYcHTSQGDPIGLILLGEVALGNMYELK(H) (K)SLQELFLAHILSPWGAEVK(A) (K)NTHATTHNAYDLEVIDIFK(I) (K)AQNDLIWNIK(D) (R)TTNFAGILSQGLR(I) (K)VFSATLGLVDIVK(G) (K)FYPLEIDYGQDEEAVK(K) (R)GGSDDSSKDPIDVNYEK(L) (R)IAPPEAPVTGYMFGK(G) (K)TLGDFAAEYAK(S)	0		enzyme	0
7	8.98E+06	P10515	DLAT	3	(K)GVETIANDVVSLATK(A) (K)VPLPSLSPTMQAGTIAR(W) (K)VPEANSSWMDTVIR(Q)	0		enzyme	0
1	5.79E+06	P10586	PTPRF	2	(R)VLAFTAVGDGPPSPTIQVK(T) (R)YSIGGLSPFSEYAFR(V)	0		phosphatase	5
27	9.44E+06	P10809	HSPD1	9	(R)ALMLQGVDLLADAVAVTmGPK(G) (R)IQEIIEQLDVTTSEYEK(E) (K)TLNDELEIIEGmK(F)	9	(R)IQEIIEQLDVTTSEYEK(E) (R)ALMLQGVDLLADAVAVTMGPK(G) (R)TALLDAAGVASLLTTAEVVVTEIPK(E)	enzyme	0

					(R)TALLDAAGVASLLTTAEVVVTEIPKEEK(D) (K)LVQDVANNTNEEAGDGTTTATVLAR(S) (K)ISSIQSIVPALEIANAHR(K) (R)TALLDAAGVASLLTTAEVVVTEIPK(E) (R)KPLVIIAEDVDGEALSTLVLNR(L) (K)cEFQDAYVLLSEK(K)		(K)TLNDELEIIEGmK(F) (K)ISSIQSIVPALEIANAHR(K) (K)LVQDVANNTNEEAGDGTTTATVLAR(S) (R)TALLDAAGVASLLTTAEVVVTEIPKEEK(D) (K)VGGTSDVEVNEK(K) (R)cIPALDSLTPANEDQK(I)		
30	1.81E+07	P11021	HSPA5	14	(K)AFYPEEISSMVLTK(L) (K)ATAGDTHLGGEDFDNR(L) (K)DNHLLGTFDLTGIPPAPR(G) (K)IEWLESHQDADIEDFK(A) (K)LYGSAGPPPTGEEDTAEKDEL(-) (K)NQLTSNPENTVFDAK(R) (K)QTQIFTTYSDNQPGVLIQVYEGER(A) (K)SFYPEEVSSMVLTK(M) (K)SINPDEAVAYGAAVQAAILSGDK(S) (K)SQIFSTASDNQPTVTIK(V) (K)STAGDTHLGGEDFDNR(M) (K)TVTNAVVTVPAYFNDSQR(Q) (R)IEIESFYEGEDFSETLTR(A) (R)IINEPTAAAIAYGLDK(R)	18	(K)AFYPEEISSmVLTK(L) (K)ATAGDTHLGGEDFDNR(L) (K)DAGTIAGLNVLR(I) (K)DNHLLGTFDLTGIPPAPR(G) (K)IEWLESHQDADIEDFK(A) (K)LYGSAGPPPTGEEDTAEKDEL(-) (K)MKETAEAYLGK(K) (K)NQVAmNPTNTVFDAK(R) (K)SDIDEIVLVGGSTR(I) (K)SFYPEEVSSmVLTK(M) (K)SINPDEAVAYGAAVQAAILmGDK(S) (K)SQIFSTASDNQPTVTIK(V) (K)SQIHDIVLVGGSTR(I) (K)STAGDTHLGGEDFDNR(M) (K)TFAPEEISAMVLTK(M) (K)TVTNAVVTVPAYFNDSQR(Q)	enzyme	0

							(R)AKFEELNMDLFR(S) (R)FDDAVVQSDmK(H)		
22	2.05E+07	P11142	HSPA8	9	(K)DAGTIAGLNVLR(I) (K)SFYPEEVSSmVLTK(M) (K)SINPDEAVAYGAAVQAAILmGDK(S) (K)SQIHDIVLVGGSTR(I) (K)STAGDTHLGGEDFDNR(M) (K)TVTNAVVTVPAYFNDSQR(Q) (I)VLVGGSTRIPKIQ(K) (R)LRTACERAKRTLSSS(T) (K)GRLSKEDIERMVQEAEKYKAED	12	(K)DAGTIAGLNVLR(I) (K)SFYPEEVSSmVLTK(M) (K)SINPDEAVAYGAAVQAAILmGDK(S) (K)SQIHDIVLVGGSTR(I) (K)STAGDTHLGGEDFDNR(M) (K)TVTNAVVTVPAYFNDSQR(Q) (F)DNRMVNHFIAEFKRKHKK(D) (L)SGDKSENVQDLLLLD(V) (R)LRTACERAKRTLSSS(T) (T)ITNDKGRLSKEDIERMVQEAEKYKAED (I)VLVGGSTRIPKIQ(K) (I)ANDQGNRTTPSYVAF(T)	enzyme	1
12	1.25E+07	P11498	PC	8	(K)AYVEANQMLGDLIK(V) (R)SVVEFLQGYIGVPHGGFPEPFR(S) (K)ASPSPTDPVVPAVPIGPPPAGFR(D) (R)LDNASAFQGAVISPHYDSLLVK(V) (K)DFTATFGPLDSLNTR(L) (R)GANAVGYTNYPDNVVFK(F) (K)ENNVDAVHPGYGFLSER(A)	2	(K)ADEAYLIGR(G) (K)ENNVDAVHPGYGFLSER(A)	enzyme	0

					(K)YSLQYYMGLAEELVR(A)				
4	5.30E+06	P11586	MTHFD1	3	(K)YVVVTGITPTPLGEGK(S) (R)LDIDPETITWQR(V) (K)TDPTTLTDEEINR(F)	0		enzyme	0
4	9.40E+06	P11940	PABPC1	2	(R)SLGYAYVNFQQPADAER(A) (R)ALDTMNFDVIK(G)	0		translation regulator	0
11	5.09E+06	P12532		2	(R)GTGGVDTAATGGVFDISNLDR(L) (K)TTPTGWTLDQcIQTGVDNPGHPFIK(T)	0			1
22	6.60E+06	P12956	XRCC6	8	(R)NLEALALDLMEPEQAVDLTLPK(V) (K)NIYVLQELDNPGAK(R) (R)DIISIAEDEDLR(V) (K)IQVTPPGFQLVFLPFADDK(R) (R)SDSFENPVLQQHFR(N) (R)TFNTSTGGLLLPSDTK(R) (R)FDDPGLMLMGFKPLVLLK(K) (K)TEGDEEAEEEQEENLEASGDYK(Y)	3	(R)DSLIFLVDASK(A) (K)IQVTPPGFQLVFLPFADDK(R) (K)NIYVLQELDNPGAK(R)	enzyme	0
21	2.47E+06	P13010	XRCC5	10	(K)DKPSGDTAAVFEEGGDVDDLLDMI(-) (K)DQVTAQEIFQDNHEDGPTAK(K) (K)ETVYcLNDDDETEVLK(E) (K)KYAPTEAQLNAVDALIDSMSLAK(K) (K)TDTLEDLFPTTK(I) (K)TLFPLIEAK(K) (K)YAPTEAQLNAVDALIDSMSLAK(K) (R)ANPQVGVAFPHIK(H)	3	(R)HLMLPDFDLLEDIESK(I) (K)TDTLEDLFPTTK(I) (K)ETVYcLNDDDETEVLK(E)	enzyme	0

					(R)EPLPPIQQHIWNMLNPPAEVTTK(S) (R)HLmLPDFDLLEDIESK(I)				
4	1.34E+07	P13591	NCAM1	2	(R)FIVLSNNYLQIR(G) (K)EASMEGIVTIVGLKPETTYAVR(L)	0		other	4
6	3.31E+07	P13637	ATP1A3	4	(K)GVGIISEGNETVEDIAAR(L) (R)QGAIVAVTGDGVNDSPALK(K) (R)LNIPVSQVNPR(D) (K)VDNSSLTGESEPQTR(S)	1	(R)QGAIVAVTGDGVNDSPALK(K)	transporter	4
25	7.61E+06	P13639	EEF2	14	(R)LmEPIYLVEIQcPEQVVGGIYGVLNR(K) (R)LMEPIYLVEIQcPEQVVGGIYGVLNR(K) (R)YVEPIEDVPcGNIVGLVGVDQFLVK(T) (K)STAISLFYELSENDLNFIK(Q) (K)DSVVAGFQWATK(E) (K)EGIPALDNFLDKL(-) (K)EGIPALDNFLDKL(-) (R)GHVFEESQVAGTPMFVVK(A) (K)AYLPVNESFGFTADLR(S) (R)ALLELQLEPEELYQTFQR(I) (R)WLPAGDALLQMITIHLPSPVTAQK(Y) (K)AYLPVNESFGFTADLR(S) (K)EGIPALDNFLDKL(-) (R)ALLELQLEPEELYQTFQR(I) (K)VFDAIMNFK(K) (K)ARPFPDGLAEDIDKGEVSAR(Q) (K)IWcFGPDGTGPNILTDITK(G)	7	(K)STAISLFYELSENDLNFIK(Q) (R)LmEPIYLVEIQcPEQVVGGIYGVLNR(K) (R)VFSGLVSTGLK(V) (R)ALLELQLEPEELYQTFQR(I) (K)AYLPVNESFGFTADLR(S) (K)IWcFGPDGTGPNILTDITK(G) (K)VFDAIMNFK(K)	translation regulator	0

					(K)EGIPALDNFLDK(L) (R)KIWcFGPDGTGPNILTDITK(G)				
5	6.47E+06	P13797	PLS3	2	(K)YPALTKPENQDIDWTLLEGETR(E) (K)ANDDIIVNWVNR(T)	0		other	1
3	2.45E+06	P14314	PRKCSH	1	(K)MPPYDEQTQAFIDAAQEAR(N)	1	(K)MPPYDEQTQAFIDAAQEAR(N)	enzyme	0
18	3.31E+07	P14618	PKM2	6	(R)LAPITSDPTEATAVGAVEASFK(C) (K)FGVEQDVDmVFASFIR(K) (K)GVNLPGAAVDLPAVSEK(D) (K)GADFLVTEVENGGSLGSK(K) (K)ITLDNAYmEK(C) (K)DPVQEAWAEDVDLR(V)	10	(K)GVNLPGAAVDLPAVSEK(D) (K)GADFLVTEVENGGSLGSK(K) (R)LAPITSDPTEATAVGAVEASFK(C) (R)EAEAAIYHLQLFEELR(R) (K)IYVDDGLISLQVK(Q) (K)ITLDNAYmEK(C) (R)GIFPVLcKDPVQEAWAEDVDLR(V) (K)FGVEQDVDmVFASFIR(K) (K)KGVNLPGAAVDLPAVSEK(D) (R)TATESFASDPILYRPVAVALDTK(G)	kinase	1
14	5.83E+06	P14625	HSP90B1	9	(R)EEEAIQLDGLNASQIR(E) (R)ELISNASDALDK(I) (K)YSQFINFPIYVWSSK(T) (K)EEASDYLELDTIK(N) (K)EFEPLLNWMK(D) (K)SILFVPTSAPR(G) (K)DISTNYYASQK(K) (K)TETVEEPMEEEEAAK(E)	9	(K)DISTNYYASQK(K) (K)EFEPLLNWmK(D) (K)GVVDSDDLPLNVSR(E) (K)GYEVIYLTEPVDEYcIQALPEFDGK(R) (K)TETVEEPmEEEEAAK(E) (K)YSQFINFPIYVWSSK(T)	other	0

					(K)EESDDEAAVEEEEEEK(K)		(R)EEEAIQLDGLNASQIR(E) (R)LISLTDENALSGNEELTVK(I) (R)SGYLLPDTK(A)		
9	1.89E+06	P14866	HNRNPL	3	(K)NDQDTWDYTNPNLSGQGDPGSNPNKR(Q) (K)SDALETLGFLNHYQmK(N) (R)SSSGLLEWESK(S)	2	(K)SDALETLGFLNHYQmK(N) (K)SKPGAAmVEmADGYAVDR(A)	other	0
6	1.15E+07	P15311	EZR	3	(K)FYPEDVAEELIQDITQK(L) (K)EGILNDDIYcPPETAVLLASYAVQSK(Y) (K)IGFPWSEIR(N)	1	(K)FYPEDVAEELIQDITQK(L)	other	3
5	1.54E+06	P16070	CD44	2	(K)ESSETPDQFMTADETR(N) (R)TNPEDIYPSNPTDDDVSSGSSSER(S)	1	(K)ESSETPDQFMTADETR(N)	other	5
4	5.57E+06	P16144	ITGB4	7	(R)EGIITIESQDGGPFPQLGSR(A) (R)DVVSFEQPEFSVSR(G) (R)DYIPVEGELLFQPGEAWK(E) (K)VAPGYYTLTADQDAR(G) (R)LTVPGLSENVPYK(F) (K)QLLVEAIDVPAGTATLGR(R) (R)DYSTLTSVSSHDSR(L)	2	(R)VLSQLTSDYTIGFGK(F) (K)QLLVEAIDVPAGTATLGR(R)	transmembrane receptor	4
4	6.39E+06	P17066	HSPA6	2	(R)IINEPTAAAIAYGLDR(R) (K)SINPDEAVAYGAAVQAAVLMGD(K)	3	(R)IINEPTAAAIAYGLDR(R) (K)SINPDEAVAYGAAVQAAVLMGD(K)	other	1

7	3.15E+06	P17301	ITGA2	4	(R)VDISLENPGTSPALEAYSETAK(V) (K)NMVVNQAQScPEHIIYIQEPSDVVNSLDLR(V) (R)QIPAAQEQPFIVSNQNK(R) (K)GNWLLVGSPWSGFPENR(M)	1	(R)VDISLENPGTSPALEAYSETAK(V)	other	5
1	6.60E+06	P17661	DES	1	(K)VELQELNDR(F)	1	(K)VELQELNDR(F)	other	0
5	2.93E+06	P17812	CTPS	2	(R)VPLLLEEQGVVDYFLR(R) (K)YIDSADLEPITSQEEPVR(Y)	2	(K)YIDSADLEPITSQEEPVR(Y) (R)VPLLLEEQGVVDYFLR(R)	enzyme	0
11	1.11E+07	P17987	TCP1	4	(R)SLLVIPNTLAVNAAQDSTDLVAK(L) (R)SQNVMAAASIANIVK(S) (R)YINENLIVNTDELGR(D) (K)VLcELADLQDK(E)	0		other	1
6	6.92E+06	P19338	NCL	3	(K)VEGTEPTTAFNLFVGNLNFNK(S) (K)GFGFVDFNSEEDAK(A) (K)FGYVDFESAEDLEK(A) (K)IHGERNVFEGIFNNAIFC(T)	3	(K)VEGTEPTTAFNLFVGNLNFNK(S) (K)FGYVDFESAEDLEK(A) (K)GLSEDTTEETLK(E)	other	0
2	3.72E+06	P20020	ATP2B1	4	(R)QVVAVTGDGTNDGPALK(K) (K)YGDLLPADGILIQGNDLK(I) (K)TVIEPMASEGLRTICLAFRD(F)	2	(K)YGDLLPADGILIQGNDLK(I) (R)QVVAVTGDGTNDGPALK(K)	transporter	4
1	3.69E+06	P20648	ATP4A	2	(K)VDNSSLTGESEPQTR(S) (K)VCEIPFNST(N)	0		transporter	4

16	1.32E+07	P20700	LMNB1	6	(R)DQMQQQLNDYEQLLDVK(L) (R)IQELEDLLAK(E) (K)SmYEEEINETR(R) (K)NQNSWGTGEDVK(V) (R)SLETENSALQLQVTER(E) (K)TTIPEEEEEEEEAAGVVVEEELFHQQGTPR(A)	4	(K)SLEGDLEDLKDQIAQLEASLAAAK(K) (R)DQmQQQLNDYEQLLDVK(L) (K)SmYEEEINETR(R) (R)AGGPTTPLSPTR(L)	other	2
7	2.33E+06	P21589	NT5E	2	(K)GPLASQISGLYLPYK(V) (K)ETPFLSNPGTNLVFEDEITALQPEVDK(L)	0		phosphatase	4
7	4.08E+06	P22234	PAICS	2	(K)EIVLADVIDNDSWR(L) (K)DDANNDPQWSEEQLIAAK(F)	0		enzyme	0
12	1.34E+07	P22314	UBA1	7	(R)NEEDAAELVALAQAVNAR(A) (K)LAYVAAGDLAPINAFIGGLAAQEVMK(A) (R)AAVATFLQSVQVPEFTPK(S) (R)YDGQVAVFGSDLQEK(L) (R)LAGTQPLEVLEAVQR(S) (K)AVTLHDQGTAQWADLSSQFYLR(E) (K)QPAENVNQYLTDPK(F)	2	(R)IYDDDFFQNLDGVANALDNVDAR(M) (R)AAVATFLQSVQVPEFTPK(S)	enzyme	0
6	1.02E+07	P23229	ITGA6	6	(R)NSYPDVAVGSLSDSVTIFR(S) (K)LETTSNQDNLAPITAK(A) (K)NIGDINQDGYPDIAVGAPYDDLGK(V) (K)LIATFPDTLTYSAYR(E) (K)EDQWMGVTVQSQGPGGK(V) (K)FGScQQGVAATFTK(D)	2	(K)NIGDINQDGYPDIAVGAPYDDLGK(V) (K)LIATFPDTLTYSAYR(E)	other	5

5	2.84E+06	P23246	SFPQ	2	(R)LFVGNLPADITEDEFK(R) (R)NLSPYVSNELLEEAFSQFGPIER(A)	2	(R)LFVGNLPADITEDEFK(R) (R)NLSPYVSNELLEEAFSQFGPIER(A)	other	0
2	3.72E+06	P23634	ATP2B4	2	(K)YGDLLPADGILIQGNDLK(I) (R)QVVAVTGDGTNDGPALK(K)	2	(K)YGDLLPADGILIQGNDLK(I) (R)QVVAVTGDGTNDGPALK(K)	transporter	4
3	2.65E+06	P23921	RRM1	2	(K)DDSIEGIYDTLK(Q) (K)EQGPYETYEGSPVSK(G)	0		enzyme	0
7	1.86E+06	P24752	ACAT1	2	(R)NEQDAYAINSYTR(S) (R)TPIGSFLGSLSLLPATK(L)	2	(R)NEQDAYAINSYTR(S) (R)TPIGSFLGSLSLLPATK(L)	enzyme	0
17	6.35E+06	P25705	ATP5A1	6	(R)EVAAFAQFGSDLDAATQQLLSR(G) (K)QGQYSPMAIEEQVAVIYAGVR(G) (R)VVDALGNAIDGK(G) (R)TGAIVDVPVGEELLGR(V) (R)ILGADTSVDLEETGR(V) (K)HALIIYDDLSK(Q)	0		transporter	2
7	1.47E+07	P26038	MSN	3	(K)FYPEDVAEELIQDITQK(L) (K)EGILNDDIYcPPETAVLLASYAVQSK(Y) (K)IGFPWSEIR(N)	0		other	3
1	9.79E+05	P26232	CTNNA2	1	(R)TSVQTEDDQLIAGQSAR(A)	1	(R)TSVQTEDDQLIAGQSAR(A)	other	3
5	5.80E+06	P26368	U2AF2	2	(K)LFIGGLPNYLNDDQVK(E) (K)ELLTSFGPLK(A)	0		other	0
13	1.20E+07	P26599	PTBP1	3	(R)IAIPGLAGAGNSVLLVSNLNPER(V)	3	(R)IAIPGLAGAGNSVLLVSNLNPER(V)	enzyme	0

					(K)NNQFQALLQYADPVSAQHAK(L) (K)NFQNIFPPSATLHLSNIPPSVSEEDLK(V)		(K)NNQFQALLQYADPVSAQHAK(L) (R)GQPIYIQFSNHK(E)		
4	3.01E+06	P27708	CAD	6	(R)VLGTSPEAIDSAENR(F) (R)LLDTIGISQPQWR(E) (R)EELSALVAPAFAHTSQVLVDK(S) (R)mAEIGEHVAPSEAANSLEQAQAAAER(L) (R)LGGAVLSFSEATSSVQK(G) (K)LALGIPLPELR(N)	0		enzyme	0
7	8.46E+06	P27824	CANX	4	(R)KIPNPDFFEDLEPFR(M) (K)IPNPDFFEDLEPFR(M) (K)APVPTGEVYFADSFDR(G) (R)IVDDWANDGWGLK(K)	2	(K)IPDPEAVKPDDWDEDAPAK(I) (K)APVPTGEVYFADSFDR(G)	other	3
4	4.30E+06	P29401	TKT	2	(K)LDNLVAILDINR(L) (R)SVPTSTVFYPSDGVATEK(A)	0		enzyme	0
10	5.34E+05	P29508	SERPINB3	2	(K)FYQTSVESVDFANAPEESR(K) (K)VLHFDQVTENTTGK(A)	0		other	1
6	1.38E+07	P30101	PDIA3	2	(R)FLQDYFDGNLK(R) (K)TFSHELSDFGLESTAGEIPVVAIR(T)	7	(K)VVVAENFDEIVNNENK(D) (R)FLQDYFDGNLK(R) (R)KTFSHELSDFGLESTAGEIPVVAIR(T) (R)ELSDFISYLQR(E) (R)GFPTIYFSPANK(K)	peptidase	0

							(K)DLLIAYYDVDYEK(N) (R)GFPTIYFSPANK(K)		
7	2.45E+06	P31040	SDHA	2	(K)VSDSISAQYPVVDHEFDAVVVGAGGAGLR(A) (K)EPIPVLPTVHYNMGGIPTNYK(G)	0		enzyme	1
11	9.33E+06	P31943	HNRNPH1	3	(R)ATENDIYNFFSPLNPVR(V) (K)ITGEAFVQFASQELAEK(A) (R)STGEAFVQFASQEIAEK(A)	6	(R)ATENDIYNFFSPLNPVR(V) (K)ITGEAFVQFASQELAEK(A) (K)EEIVQFFSGLEIVPNGITLPVDFQGR(S) (R)DLNYcFSGmSDHR(Y) (R)EGRPSGEAFVELESEDEVK(L) (R)YVELFLNSTAGASGGAYEHR(Y)	other	0
4	8.48E+06	P33991	MCM4	2	(R)TSVLAAANPIESQWNPK(K) (R)LGEINVIGEPFLNVNcEHIK(S)	0		enzyme	0
3	2.47E+06	P33992	MCM5	2	(R)LAALPNVYEVISK(S) (R)SFAGAVSPQEEEEFRR(L)	0		enzyme	0
14	2.56E+07	P34931	HSPA1L	5	(K)AFYPEEISSmVLTK(L) (K)ATAGDTHLGGEDFDNR(L) (K)SINPDEAVAYGAAVQAAILmGDK(S) (R)FEELCADLFR(G) (R)IINEPTAAAIAYGLDK(R)	6	(K)AFYPEEISSmVLTK(L) (K)ATAGDTHLGGEDFDNR(L) (K)DAGVIAGLNVLR(I) (K)SINPDEAVAYGAAVQAAILmGDK(S) (R)FEELCADLFR(G) (R)IINEPTAAAIAYGLDK(R)	other	0
10	4.46E+06	P35221	CTNNA1	8	(K)AEVQNLGGELVVSGVDSAmSLIQAAK(N) (R)TSVQTEDDQLIAGQSAR(A)	2	(K)AEVQNLGGELVVSGVDSAmSLIQAAK(N) (K)SQGMASLNLPAVSWK(M)	other	3

					(R)NAGNEQDLGIQYK(A) (K)IAEQVASFQEEK(S) (R)mSASQLEALcPQVINAALALAAKPQSK(L) (R)QALQDLLSEYmGNAGR(K) (K)SQGmASLNLPAVSWK(M) (K)NVPILYTASQAcLQHPDVAAYK(A)				
3	1.86E+07	P35241	RDX	2	(K)EGILNDDIYcPPETAVLLASYAVQSK(Y) (K)IGFPWSEIR(N)	0		other	2
30	2.62E+06	P35527	KRT9	10	(K)EIETYHNLLEGGQEDFESSGAGK(I) (K)NYSPYYNTIDDLK(D) (K)SDLEmQYETLQEELmALK(K) (K)VQALEEANNDLENK(I) (R)GGSGGGSHGGGSGFGGESGGSYGGGEEASGSGGGYGG GSGK(S) (R)GGSGGGSYGGGGSGGGYGGGSGSR(G) (R)HGVQELEIELQSQLSK(K) (R)QEYEQLIAK(N) (R)QVLDNLTmEK(S) (R)YcGQLQmIQEQISNLEAQITDVR(Q)	0		other	0
3	5.11E+06	P35606	COPB2	2	(K)AAESLADPTEYENLFPGLK(E) (R)GSNNVALGYDEGSIIVK(L)	1	(K)AAESLADPTEYENLFPGLK(E	transporter	1
4	5.41E+07	P35613	BSG	1	(R)SELHIENLNMEADPGQYR(C)	0		transporter	5
5	5.39E+06	P36957	DLST	2	(K)ASAFALQEQPVVNAVIDDTTK(E)	0		enzyme	1

					(R)VLLLDL(-)				
14	3.71E+07	P38646	HSPA9	7	(R)VINEPTAAALAYGLDK(S) (R)AQFEGIVTDLIR(R) (K)VQQTVQDLFGR(A) (R)QAVTNPNNTFYATK(R) (K)STNGDTFLGGEDFDQALLR(H) (R)EQQIVIQSSGGLSK(D) (K)NAVITVPAYFNDSQR(Q)	7	(R)VINEPTAAALAYGLDK(S) (R)AQFEGIVTDLIR(R) (K)LYSPSQIGAFVLmK(M) (R)QAVTNPNNTFYATK(R) (R)EQQIVIQSSGGLSK(D) (K)STNGDTFLGGEDFDQALLR(H) (R)VEAVNmAEGIIHDTETK(M)	other	0
3	9.61E+05	P38919	EIF4A3	1	(R)GIYAYGFEKPSAIQQR(A)	0		enzyme	0
15	1.14E+07	P40227	CCT6A	5	(K)VHAELADVLTEAVVDSILAIK(K) (K)VATAQDDITGDGTTSNVLIIGELLK(Q) (K)ALQFLEEVK(V) (K)MLVSGAGDIK(L) (K)VLAQNSGFDLQETLVK(I)	2	(K)MLVSGAGDIK(L) (K)VHAELADVLTEAVVDSILAIK(K)	other	0
31	9.13E+06	P40939	HADHA	14	(K)TLQEVTQLSQEAQR(I) (R)DSIFSNLTGQLDYQGFEK(A) (K)ADMVIEAVFEDLSLK(H) (K)MGLVDQLVEPLGPGLKPPEER(T) (K)DLNSDMDSILASLK(L) (K)MVGVPAALDMMLTGR(S) (R)FGGGNPELLTQMVSK(G) (K)ELHSEFSEVMNEIWASDQIR(S)	9	(K)TLQEVTQLSQEAQR(I) (K)DLNSDMDSILASLK(L) (R)DSIFSNLTGQLDYQGFEK(A) (R)FGGGNPELLTQMVSK(G) (K)MGLVDQLVEPLGPGLKPPEER(T) (K)DTSASAVAVGLK(Q) (R)TIEYLEEVAITFAK(G)	enzyme	0

					(K)EVEAVIPDHcIFASNTSALPISEIAAVSK(R) (K)TVLGTPEVLLGALPGAGGTQR(L) (K)KLDSLTTSFGFPVGAATLVDEVGVDVAK(H) (K)MQLLEIITTEK(T) (K)DATLTALDR(G) (R)TIEYLEEVAITFAK(G)		(K)DATLTALDR(G) (K)EVEAVIPDHcIFASNTSALPISEIAAVSK(R)		
6	6.93E+05	P41250	GARS	2	(K)TLYVEEVVPNVIEPSFGLGR(I) (K)KSEMESVLAQLDNYGQQELADLFVNYNVK(S)	0		enzyme	0
9	8.26E+06	P41252	IARS	8	(K)LFLNETQTQEITEDIPVK(T) (K)YRPLFDYFLK(C) (R)EFEDAFPADFIAEGIDQTR(G) (R)VENMVDQLLR(N) (K)TESAVSQMQSVIELGR(V) (R)LMAPYTPFLTELMYQNLK(V) (K)TLYPQFMESVWWVFK(Q) (K)TVYVSVLPTTADF(-)	3	(K)DSLPVcPVDASGcFTTEVTDFAGQYVK(D) (R)VENMVDQLLR(N) (R)EFEDAFPADFIAEGIDQTR(G)	enzyme	0
6	2.12E+06	P42704	LRPPRC	5	(R)LANQFAIYKPVTDFFLQLVDAGK(V) (R)DAGIEPGPDTYLALLNAYAEK(G) (R)YIPDAMNLILLLVTEK(L) (K)AGYPQYVSEILEK(V) (R)SMNINLWSEITELLYK(D)	9	(R)DAGIEPGPDTYLALLNAYAEK(G) (K)TVQLTSSELESTLETLK(A) (R)SmNINLWSEITELLYK(D) (R)GPTEAVGYFLYNLIDSMSDSEVQAK(E) (K)ISNQFDWALMR(L) (K)NNNIDAAIENIENMLTSENK(V) (K)GFTLNDAANSR(L)	other	1

							(R)EGNQEVPFDVPELWYEDEK(H) (K)VIEEQLEPAVEK(I)		
11	7.57E+06	P43243	MATR3	5	(R)IGPYQPNVPVGIDYVIPK(T) (R)YQLLQLVEPFGVISNHLILNK(I) (R)GDADQASNILASFGLSAR(D) (R)DLSAAGIGLLAAATQSLSMPASLGR(M) (K)ITPENLPQILLQLK(R)	5	(R)IGPYQPNVPVGIDYVIPK(T) (R)GDADQASNILASFGLSAR(D) (K)ITPENLPQILLQLK(R) (R)DLSAAGIGLLAAATQSLSMPASLGR(M) (K)IEELDQENEAALENGIK(N)	other	0
4	3.19E+06	P43246	MSH2	2	(R)ALNLFQGSVEDTTGSQSLAALLNK(C) (R)LYQGINQLPNVIQALEK(H)	0		enzyme	0
5	2.72E+06	P45974	USP5	2	(R)IGEWELIQESGVPLKPLFGPGYTGIR(N) (R)GTGLQPGEEELPDIAPPLVTPDEPK(G)	0		peptidase	0
10	4.09E+06	P46940	IQGAP1	10	(K)LEGVLAEVAQHYQDTLIR(A) (R)SPDVGLYGVIPEcGETYHSDLAEAK(K) (K)LPYDVTPEQALAHEEVK(T) (K)IGGILANELSVDEAALHAAVIAINEAIDR(R) (R)EEIQSSISGVTAAYNR(E) (K)LGLAPQIQDLYGK(V) (K)TLINAEDPPMVVVR(K) (K)EELQSGVDAANSAAQQYQR(R) (R)SNQQLENDLNLMDIK(I) (K)IFYPETTDIYDR(K)	5	(R)SPDVGLYGVIPEcGETYHSDLAEAK(K) (K)IGGILANELSVDEAALHAAVIAINEAIDR(R) (R)SNQQLENDLNLMDIK(I) (K)IFYPETTDIYDR(K) (R)EEIQSSISGVTAAYNR(E)	other	2
10	5.34E+05	P48594	SERPINB4	2	(K)DLSMIVLLPNEIDGLQK(L)	0		other	0

					(K)ENNIFYSPISITSALGmVLLGAK(D)				
4	4.30E+06	P48741	HSPA7	1	(K)ATAGDTHLGGEDFDNR(L)	2	(K)ATAGDTHLGGEDFDNR(L) (K)RNVLIFDLGGGTF(D)	other	1
6	2.86E+06	P49321	NASP	2	(K)GGAAPEGPNEAEVTSGKPEQEVPDAEEEK(S) (K)DGAVNGPSVVGDQTPIEPQTSIER(L)	0		other	0
14	4.32E+06	P49327	FASN	23	(K)AcLDTAVENMPSLK(M) (K)AQVADVVVSR(W) (K)DTVTISGPQAPVFEFVEQLR(K) (K)EDGLAQQQTQLNLR(S) (K)EQGVTFPSGDIQEQLIR(S) (K)GVDLVLNSLAEEK(L) (K)GVDLVLNSLAEEK(L) (K)LPEDPLLSGLLDSPALK(A) (K)LPESENLQEFWDNLIGGVDMVTDDDRR(W) (K)MVVPGLDGAQIPR(D) (K)VGDPQELNGITR(A) (K)VYQWDDPDPR(L) (K)WTSQDSLLGMEFSGR(D) (R)cVLLSNLSSTSHVPEVDPGSAELQK(V) (R)HSQDLAFLSMLNDIAAVPATAMPFR(G) (R)LFDHPESPTPNPTEPLFLAQAEVYK(E) (R)LHLSGIDANPNALFPPVEFPAPR(G) (R)RQQEQQVPILEK(F) (R)SEGVVAVLLTK(K) (R)SLLVNPEGPTLMR(L)	18	(K)AQVADVVVSR(W) (K)EDGLAQQQTQLNLR(S) (K)EQGVTFPSGDIQEQLIR(S) (K)GILADEDSSRPVWLK(A) (K)GVDLVLNSLAEEK(L) (K)LPEDPLLSGLLDSPALK(A) (K)LPESENLQEFWDNLIGGVDMVTDDDRR(W) (K)VGDPQELNGITR(A) (K)WTSQDSLLGMEFSGR(D) (R)cVLLSNLSSTSHVPEVDPGSAELQK(V) (R)DLVEAVAHILGIR(D) (R)GNAGQSNYGFANSAMER(I) (R)HSQDLAFLSMLNDIAAVPATAMPFR(G) (R)LFDHPESPTPNPTEPLFLAQAEVYK(E) (R)QGVQVQVSTSNISSLEGAR(G) (R)RPTPQDSPIFLPVDDTSFR(W)	enzyme	1

					(R)SLYQSAGVAPESFEYIEAHGTGTK(V) (R)VLEALLPLK(G) (R)VYATILNAGTNTDGFK(E)		(R)SLYQSAGVAPESFEYIEAHGTGTK(V) (R)TLLEGSGLESIISIIHSSLAEPR(V)		
7	5.46E+06	P49411	TUFM	2	(K)LLDAVDTYIPVPAR(D) (R)TIGTGLVTNTLAMTEEEK(N)	2	(R)TIGTGLVTNTLAMTEEEK(N) (R)DLEKPFLLPVEAVYSVPGR(G)	translation regulator	0
12	3.82E+06	P49748	ACADVL	5	(R)EGmAALQSDPWQQELYR(N) (K)ELGAFGLQVPSELGGVGLcNTQYAR(L) (K)NPFGNAGLLLGEAGK(Q) (R)IFEGTNDILR(L) (K)NDALEmVEETTWQGLK(E)	3	(R)VPSENVLGEVGSGFK(V) (K)ELGAFGLQVPSELGGVGLcNTQYAR(L) (K)GQLTTDQVFPYPSVLNEEQTQFLK(E)	enzyme	1
9	4.88E+06	P49915	GMPS	4	(R)ELFVQSEIFPLETPAFAIK(E) (R)IMYDLTSKPPGTTEWE(-) (R)ELGLPEELVSR(H) (K)EPPTDVTPTFLTTGVLSTLR(Q)	3	(R)TFITSDFMTGIPATPGNEIPVEVVLK(M) (K)EPPTDVTPTFLTTGVLSTLR(Q) (R)ELFVQSEIFPLETPAFAIK(E)	enzyme	0
4	1.65E+07	P50990	CCT8	2	(K)AIADTGANVVVTGGK(V) (K)LFVTNDAATILR(E)	0		enzyme	0
5	2.91E+06	P50991	CCT4	2	(R)DALSDLALHFLNK(M) (K)TDMDNQIVVSDYAQMDR(V)	3	(K)VIDPATATSVDLR(D) (R)ALIAGGGAPEIELALR(L) (R)ETLLNSATTSLNSK(V)	other	0
5	3.95E+07	P50993	ATP1A2	3	(K)QAADMILLDDNFASIVTGVEEGR(L) (K)GVGIISEGNETVEDIAAR(L)	1	(R)QGAIVAVTGDGVNDSPALK(K)	transporter	4

					(K)VDNSSLTGESEPQTR(S)				
10	5.25E+06	P52272	HNRNPM	5	(R)AFITNIPFDVK(W) (R)GNFGGSFAGSFGGAGGHAPGVAR(K) (K)VGEVTYVELLmDAEGK(S) (R)LGSTVFVANLDYK(V) (K)DKFNEcGHVLYADIK(M)	2	(R)AFITNIPFDVK(W) (K)VGEVTYVELLmDAEGK(S)	other	0
10	6.19E+06	P52292	KPNA2	3	(K)GINSSNVENQLQATQAAR(K) (K)LLGASELPIVTPALR(A) (R)NKNPAPPIDAVEQILPTLVR(L)	3	(K)LLGASELPIVTPALR(A) (R)NKNPAPPIDAVEQILPTLVR(L) (R)NVSSFPDDATSPLQENR(N)	transporter	0
8	7.34E+06	P52597	HNRNPF	2	(K)ITGEAFVQFASQELAEK(A) (K)HSGPNSADSANDGFVR(L)	2	(K)ITGEAFVQFASQELAEK(A) (K)HSGPNSADSANDGFVR(L)	other	0
16	2.40E+07	P53396	ACLY	12	(K)AFDSGIIPMEFVNK(M) (K)GVTIIGPATVGGIKPGcFK(I) (K)IGNTGGMLDNILASK(L) (K)WGDIEFPPPFGR(E) (R)DEPSVAAMVYPFTGDHK(Q) (R)EAYPEEAYIADLDAK(S) (R)GQELIYAGMPITEVFK(E) (R)QHFPATPLLDYALEVEK(I) (R)SAYDSTMETMNYAQIR(T) (R)SGGMSNELNNIISR(T) (R)TIAIIAEGIPEALTR(K) (R)TTDGVYEGVAIGGDR(Y)	0		enzyme	0
1	7.20E+06	P53675	CLTCL1	2	(K)AFMTADLPNELIELLEK(I)	2		other	2

					(R)GQFSTDELVAEVEKR(N)				
6	3.34E+07	P54652	HSPA2	3	(R)IINEPTAAAIAYGLDK(K) (K)TFFPEEISSmVLTK(M) (K)SINPDEAVAYGAAVQAAILIGDK(S)	5	(K)SINPDEAVAYGAAVQAAILIGDK(S) (K)GQIQEIVLVGGSTR(I) (R)FEELNADLFR(G) (K)DAGTITGLNVLR(I) (K)NQVAMNPTNTIFDAK(R)	other	1
7	3.43E+06	P54886	ALDH18A1	4	(R)LASIVEQVSVLQNQGR(E) (K)VGTFFSEVKPAGPTVEQQGEMAR(S) (K)LIDIFYPGDQQSVTFGTK(S) (K)CEYPAACNALETLL(I)	2	(K)LIDIFYPGDQQSVTFGTK(S) (R)LASIVEQVSVLQNQGR(E)	kinase	1
7	1.99E+06	P55060	CSE1L	4	(K)FLESVEGNQNYPLLLLTLLEK(S) (K)YGALALQEIFDGIQPK(M) (R)SFSLLQEAIIPYIPTLITQLTQK(L) (K)LVLDAFALPLTNLFK(A)	0		transporter	0
10	4.42E+06	P55072	VCP	5	(R)IVSQLLTLMDGLK(Q) (K)NAPAIIFIDELDAIAPK(R) (R)LDQLIYIPLPDEK(S) (R)LIVDEAINEDNSVVSLSQPK(M) (R)ETVVEVPQVTWEDIGGLEDVK(R)	3	(K)NAPAIIFIDELDAIAPK(R) (R)IVSQLLTLMDGLK(Q) (R)LDQLIYIPLPDEK(S)	enzyme	0
2	2.56E+06	P55265	ADAR	2	(R)WNVLGLQGALLTHFLQPIYLK(S) (R)YLNTNPVGGLLEYAR(S)	2	(R)YLNTNPVGGLLEYAR(S) (R)NTNSVPETAPAAIPETR(R)	enzyme	0

7	1.02E+07	P55795	HNRNPH2	2	(K)ITGEAFVQFASQELAEK(A) (R)STGEAFVQFASQEIAEK(A)	3	(R)ATENDIYNFFSPLNPVR(V) (K)ITGEAFVQFASQELAEK(A) (R)STGEAFVQFASQEIAEK(A)	other	0
4	1.23E+06	P56192	MARS	2	(K)ITQDIFQQLLK(R) (R)AVTNEPEEEELATLSEEEIAMAVTAWEK(G)	0		enzyme	0
9	6.80E+05	P60842	EIF4A1	2	(R)GIYAYGFEKPSAIQQR(A) (R)DIETFYNTSIEEMPLNVADLI(-)	0		translation regulator	0
8	1.48E+06	P61163	ACTR1A	2	(R)TLFSNIVLSGGSTLFK(G) (K)AQYYLPDGSTIEIGPSR(F)	0		other	1
26	9.29E+06	P61978	HNRNPK	6	(K)IILDLISESPIK(G) (R)IITITGTQDQIQNAQYLLQNSVK(Q) (R)TDYNASVSVPDSSGPER(I) (R)ILSISADIETIGEILK(K) (R)GSYGDLGGPIITTQVTIPK(D) (K)IIPTLEEGLQLPSPTATSQLPLESDAVEcLNYQHYK(G)	6	(R)GSYGDLGGPIITTQVTIPK(D) (R)IITITGTQDQIQNAQYLLQNSVK(Q) (K)IILDLISESPIK(G) (K)IIPTLEEGLQLPSPTATSQLPLESDAVEcLNYQHYK(G) (R)TDYNASVSVPDSSGPER(I) (K)RPAEDmEEEQAFK(R)	other	0
7	3.03E+06	P62333	PSMC6	2	(R)EVIELPLTNPELFQR(V) (K)ALQSVGQIVGEVLK(Q)	0		peptidase	0
32	7.95E+06	P62988		2	(K)TITLEVEPSDTIENVK(A) (R)TLSDYNIQK(E)	0			0
12	1.21E+06	P67809	YBX1	2	(R)EDGNEEDKENQGDETQGQQPPQR(R)	0		transcription regulator	0

					(K)GAEAANVTGPGGVPVQGSK(Y)				
25	7.15E+06	P68104	EEF1A1	5	(K)DGNASGTTLLEALDcILPPTRPTDKPLR(L) (K)SGDAAIVDMVPGKPMcVESFSDYPPLGR(F) (K)NMITGTSQADcAVLIVAAGVGEFEAGISK(N) (K)IGGIGTVPVGR(V) (R)VETGVLKPGMVVTFAPVNVTTEVK(S)	5	(K)NMITGTSQADcAVLIVAAGVGEFEAGISK(N) (K)DGNASGTTLLEALDcILPPTRPTDKPLR(L) (R)VETGVLKPGMVVTFAPVNVTTEVK(S) (K)SGDAAIVDMVPGKPMcVESFSDYPPLGR(F) (K)IGGIGTVPVGR(V)	translation regulator	1
3	1.30E+07	P78347	GTF2I	2	(R)DQSAVVVQGLPEGVAFK(H) (K)ANELPQPPVPEPANAGK(R)	0		transcription regulator	0
13	5.72E+06	P78371	CCT2	4	(K)LGGSLADSYLDEGFLLDK(K) (R)VQDDEVGDGTTSVTVLAAELLR(E) (R)LTSFIGAIAIGDLVK(S) (R)DASLMVTNDGATILK(N)	0		kinase	0
12	2.80E+06	P78527	PRKDC	33	(K)AALSALESFLK(Q) (K)ATQMPEGGQGAPPMYQLYK(R) (K)DLLLNTMSQEEK(A) (K)GQAVTLLPFFTSLTGGSLEELR(R) (K)IPALDLLIK(L) (K)ITAQSIEELcAVNLYGPDAQVDR(S) (K)LNESTFDTQITK(K) (K)LQSVQALTEIQEFISFISK(Q) (K)LQYFMEQFYGIIR(N) (K)LSDFNDITNMLLLK(M)	6	(K)LQSVQALTEIQEFISFISK(Q) (R)MEVQEQEEDISSLIR(S) (K)LAGANPAVITcDELLLGHEK(A) (R)ATQQQHDFTLTQTADGR(S) (K)LNESTFDTQITK(K) (R)VTELALTASDR(Q)	kinase	0

					(K)LTPLPEDNSMNVDQDGDPSDR(M) (K)NLDLAVLELMQSSVDNTK(M) (K)NLSSNEAISLEEIR(I) (K)SLEYcSTASIDSENPPDLNK(I) (K)TVSLLDENNVSSYLSK(N) (K)VYELLGLLGEVHPSEMINNAENLFR(A) (R)AQEPESGLSEETQVK(C) (R)DPESETDNDSQEIFK(L) (R)DPTVHDDVLELEmDELNR(H) (R)ELLNPVVEFVSHPSTTcR(E) (R)GScVTQVGLLESVYEMFR(K) (R)IIANALSSEPAcLAEIEEDK(A) (R)IIANALSSEPAcLAEIEEDKAR(R) (R)IMEFTTTLLNTSPEGWK(L) (R)KEEENASVIDSAELQAYPALVVEK(M) (R)LGLIEWLENTVTLK(D) (R)LLALNSLYSPK(I) (R)LLALNSLYSPK(I) (R)MEVQEQEEDISSLIR(S) (R)NcISTVVHQGLIR(I) (R)STVLTPMFVETQASQGTLQTR(T) (R)TVGALQVLGTEAQSSLLK(A) (R)TVGALQVLGTEAQSSLLK(A) (R)VVQMLGSLGGQINK(N) (R)YNFPVEVEVPMER(K) (R)YNFPVEVEVPMER(K)				

8	4.59E+06	Q00610	CLTC	9	(K)AFMTADLPNELIELLEK(I) (K)DTELAEELLQWFLQEEK(R) (K)IYIDSNNNPER(F) (K)VGEQAQVVIIDMNDPSNPIR(R) (R)LAELEEFINGPNNAHIQQVGDR(C) (K)SVNESLNNLFITEEDYQALR(T) (R)GQFSTDELVAEVEKR(N) (R)NNLAGAEELFAR(K) (K)FNALFAQGNYSEAAK(V)	12	(K)AFMTADLPNELIELLEK(I) (R)FQSVPAQPGQTSPLLQYFGILLDQGQLNK(Y) (K)DTELAEELLQWFLQEEK(R) (R)LASTLVHLGEYQAAVDGAR(K) (K)IYIDSNNNPER(F) (R)NLQNLLILTAIK(A) (K)SVNESLNNLFITEEDYQALR(T) (K)LLLPWLEAR(I) (R)ISGETIFVTAPHEATAGIIGVNR(K) (K)VDKLDASESLR(K) (K)AVDVFFPPEAQNDFPVAMQISEK(H) (K)FNALFAQGNYSEAAK(V)	other	3
6	1.04E+07	Q00839	HNRNPU	3	(R)NFILDQTNVSAAAQR(R) (K)SSGPTSLFAVTVAPPGAR(Q) (K)EKPYFPIPEEYTFIQNVPLEDR(V)	4	(R)NFILDQTNVSAAAQR(R) (R)GYFEYIEENK(Y) (K)EKPYFPIPEEYTFIQNVPLEDR(V) (K)SSGPTSLFAVTVAPPGAR(Q)	transporter	0
11	1.20E+07	Q01518	CAP1	3	(R)VENQENVSNLVIEDTELK(Q) (K)AGAAPYVQAFDSLLAGPVAEYLK(I) (K)LSDLLAPISEQIK(E)	0		other	3
1	4.74E+05	Q01814	ATP2B2	1	(R)QVVAVTGDGTNDGPALK(K)	1	(R)QVVAVTGDGTNDGPALK(K)	transporter	4
6	5.63E+06	Q02218	OGDH	4	(R)VIPEDGPAAQNPENVK(R)	2	(R)IEQLSPFPFDLLLK(E)	enzyme	0

					(R)NTNAGAPPGTAYQSPLPLSR(G) (K)YAELLVSQGVVNQPEYEEEISK(Y) (K)LGFYGLDESDLDK(V)		(R)NTNAGAPPGTAYQSPLPLSR(G)		
9	3.94E+06	Q03252	LMNB2	5	(R)TVLVNADGEEVAMR(T) (K)ALYESELADAR(R) (K)LELEQTYQAK(L) (K)GQSSWGTGESFR(T) (R)AGGPATPLSPTR(L)	3	(R)TVLVNADGEEVAmR(T) (K)ALYESELADAR(R) (R)AGGPATPLSPTR(L)	other	2
6	6.96E+06	Q05524		2	(K)DATNVGDEGGFAPNILENK(E) (R)YISPDQLADLYK(G)	0			0
8	8.20E+05	Q05639	EEF1A2	2	(K)SGDAAIVDMVPGKPMcVESFSDYPPLGR(F) (K)NMITGTSQADcAVLIVAAGVGEFEAGISK(N)	2	(K)SGDAAIVDMVPGKPMcVESFSDYPPLGR(F) (K)NMITGTSQADcAVLIVAAGVGEFEAGISK(N)	translation regulator	1
5	4.23E+06	Q07065	CKAP4	2	(R)LEGLGSSEADQDGLASTVR(S) (R)STLQTMESDIYTEVR(E)	1	(K)VQEQVHTLLSQDQAQAAR(L)	other	3
9	3.15E+07	Q08211	DHX9	7	(R)FSDHVALLSVFQAWDDAR(M) (K)GMTLVTPLQLLLFASK(K) (R)ELDALDANDELTPLGR(I) (K)AIEPPPLDAVIEAEHTLR(E) (K)AENNSEVGASGYGVPGPTWDR(G) (R)TYPVQEYFLEDcIQMTHFVPPPK(D) (K)VFDPVPVGVTK(V)	11	(K)AENNSEVGASGYGVPGPTWDR(G) (K)AIEPPPLDAVIEAEHTLR(E) (K)GMTLVTPLQLLLFASK(K) (K)QPAIISQLDPVNER(M) (K)SSVNcPFSSQDMK(Y) (K)TTQVPQFILDDFIQNDR(A)	enzyme	0

							(K)YPSPFFVFGEK(I) (R)AAEcNIVVTQPR(R) (R)DVVQAYPEVR(I) (R)ISAVSVAER(V) (R)TYPVQEYFLEDcIQMTHFVPPPK(D)		
7	1.42E+06	Q08945	SSRP1	3	(K)VDNIQAGELTEGIWR(R) (R)FYVPPTQEDGVDPVEAFAQNVLSK(A) (K)QGTQYTFSSIER(E)	0		other	0
4	5.34E+07	Q09028	RBBP4	2	(K)TPSSDVLVFDYTK(H) (K)TVALWDLR(N)	0		enzyme	0
2	3.39E+06	Q12769	NUP160	2	(R)FVSSPQTIVELFFQEVAR(K) (K)LPLTPVFEGLAFK(C)	2	(R)FVSSPQTIVELFFQEVAR(K) (K)LPLTPVFEGLAFK(C)	transporter	0
15	3.15E+06	Q12905	ILF2	3	(K)ILPTLEAVAALGNK(V) (R)NQDLAPNSAEQASILSLVTK(I) (R)AQDPSEVLTMLTNETGFEISSSDATVK(I)	5	(K)ILPTLEAVAALGNK(V) (R)NQDLAPNSAEQASILSLVTK(I) (R)FPGFEPLTPWILDLLGHYAVMNNPTR(Q) (R)AQDPSEVLTMLTNETGFEISSSDATVK(I) (R)WFEENASQSTVK(V)	transcription regulator	0
10	6.04E+06	Q12906	ILF3	5	(R)SGGNSYGSGGASYNPGSHGGYGGGSGGGSSYQGK(Q) (K)VLAGETLSVNDPPDVLDR(Q) (K)LFPDTPLALDANK(K) (K)AVSDWIDEQEK(G)	5	(K)VLQDmGLPTGAEGR(D) (K)LFPDTPLALDANK(K) (K)AVSDWIDEQEK(G) (K)VLGmDPLPSK(M)	transcription regulator	0

					(K)VLQDmGLPTGAEGR(D)		(K)YELISETGGSHDK(R)		
1	5.63E+06	Q12931	TRAP1	1	(R)YESSALPSGQLTSLSEYASR(M)	2	(K)AFLDALQNQAEASSK(I) (R)YESSALPSGQLTSLSEYASR(M)	enzyme	0
4	1.39E+06	Q12996	CSTF3	2	(K)LAAIIPDPVVAPSIVPVLK(D) (R)LVAQFPSSGR(F)	0		other	1
13	2.28E+07	Q13263	TRIM28	5	(R)LDLDLTADSQPPVFK(V) (R)STAPSAAASASASAAASSPAGGGAEALELLEHcGVcR(E) (K)LSPPYSSPQEFAQDVGR(M) (K)VFPGSTTEDYNLIVIER(G) (R)GAAAAATGQPGTAPAGTPGAPPLAGMAIVK(E)	0		transcription regulator	0
4	4.22E+06	Q13308	PTK7	2	(R)GPPIILEATLHLAEIEDMPLFEPR(V) (R)ADGSSLPEWVTDNAGTLHFAR(V)	0		kinase	3
4	9.40E+06	Q13310	PABPC4	2	(R)SLGYAYVNFQQPADAER(A) (R)ALDTMNFDVIK(G)	0		other	0
8	3.02E+06	Q13740	ALCAM	4	(K)SVQYDDVPEYK(D) (K)EmDPVTQLYTmTSTLEYK(T) (R)SSNTYTLTDVR(R) (R)FVcmLVTEDNVFEAPTIVK(V)	1	(R)SSPSFSSLHYQDAGNYVcETALQEVEGLK(K)	other	4
2	1.14E+06	Q13751	LAMB3	1	(R)AVLSSPAVTEQEVAQVASAILSLR(R)	0		transporter	2
4	4.42E+06	Q13838	DDX39B	2	(K)GLAITFVSDENDAK(I) (R)DVQEIFR(L)	0		enzyme	0

4	6.72E+06	Q14126	DSG2	3	(R)ILDVNDNIPVVENK(V) (R)DMAGAQAAAVALNEEFLR(N) (K)VVPSFLPVDQGGSLVGR(N)	0		other	5
1	3.99E+06	Q14203	DCTN1	2	(K)IQLEQVQEWK(S) (K)DQLDETVNVEPLTK(A)	0		other	0
8	1.51E+06	Q14204	DYNC1H1	23	(K)AVDDLNLHSYSNLPIWVNK(L) (K)DFPLNDLLSATELDK(I) (K)DSAIQQQVANLQMK(I) (K)LNTQEIFDDWAR(K) (K)NYMSNPSYNYEIVNR(A) (K)QALETVNDYNPLMK(D) (K)SPLVMDVLNIQGVQR(S) (K)VAAPDVVVPTLDTVR(H) (K)VTDFGDKVEDPTFLNQLQSGVNR(W) (R)ALPDMEVVGLNFSSATTPELLLK(T) (R)ENFIPTIVNFSAEEISDAIR(E) (R)ESPEVLLTLDILK(H) (R)FGNPLLVQDVESYDPVLNPVLNR(E) (R)FTQDTQPHYIYSPR(E) (R)GIFEALRPLETLPVEGLIR(I) (R)GNEIVLSAGSTPR(I) (R)ILDDDTIITTLENLK(R) (R)IQGLTVEQAEAVVR(L) (R)KLVPLLLEDGGEAPAALEAALEEK(S) (R)MLSAVSQQVQcIQEALR(E)	2	(R)ENFIPTIVNFSAEEISDAIR(E) (R)VQVALEELQDLK(G)	peptidase	0

					(R)SIPLDEGEDEAQR(R) (R)VLLTTQGVDMISK(M) (R)WTDENIDTVALK(H)				
3	9.61E+05	Q14240	EIF4A2	1	(R)GIYAYGFEKPSAIQQR(A)	0		translation regulator	0
8	2.56E+06	Q14247	CTTN	3	(K)NASTFEDVTQVSSAYQK(T) (R)YGLFPANYVELR(Q) (R)GPVSGTEPEPVYSMEAADYR(E)	8	(K)TQTPPVSPAPQPTEER(L) (R)GPVSGTEPEPVYSMEAADYR(E) (R)VDQSAVGFEYQGK(T) (K)TQTPPVSPAPQPTEER(L) (K)NASTFEDVTQVSSAYQK(T) (R)YGLFPANYVELR(Q) (R)ENVFQEHQTLK(E) (R)QDSAAVGFDYK(E)	other	2
9	4.51E+06	Q14697	GANAB	5	(R)DENSVELTmAEGPYK(I) (R)QYASLTGTQALPPLFSLGYHQSR(W) (K)MmDYLQGSGETPQTDVR(W) (R)FGAVWTGDNTAEWDHLK(I) (K)DPAEGDGAQPEETPR(D)	5	(K)mmDYLQGSGETPQTDVR(W) (R)QYASLTGTQALPPLFSLGYHQSR(W) (R)DENSVELTmAEGPYK(I) (R)VSQGSKDPAEGDGAQPEETPR(D) (R)LSFQHDPETSVLVLR(K)	enzyme	1
7	3.61E+06	Q14764	MVP	3	(R)VASGPSPGEGISPQSAQAPQAPGDNHVVPVLR(-) (R)QAIPLDENEGIYVQDVK(T) (R)LAQDPFPLYPGEVLEK(D)	0		other	0

5	2.34E+06	Q14956	GPNMB	2	(K)DVYVVTDQIPVFVTMFQK(N) (R)WNFIYVFHTLGQYFQK(L)	0		enzyme	3
3	2.69E+06	Q14974	KPNB1	2	(K)GALQYLVPILTQTLTK(Q) (R)AAVENLPTFLVELSR(V)	4	(R)AAVENLPTFLVELSR(V) (K)VQHQDALQISDVVMASLLR(M) (K)SDYDMVDYLNELR(E) (R)DTAAWTVGR(I)	transporter	0
3	4.57E+06	Q15029	EFTUD2	2	(R)VPAGNWVLIEGVDQPIVK(T) (K)IAVEPVNPSELPK(M) (R)VPAGNWVLIEGVDQPIVK(T)	3	(K)IAVEPVNPSELPK(M) (K)AFIPAIDSFGFETDLR(T) (R)VPAGNWVLIEGVDQPIVK(T)	enzyme	0
6	4.58E+06	Q15046	KARS	2	(K)VTYHPDGPEGQAYDVDFTPPFR(R) (K)ENVATTDTLESTTVGTSV(-)	0		enzyme	2
12	2.50E+07	Q15084	PDIA6	3	(K)LAAVDATVNQVLASR(Y) (R)GSTAPVGGGAFPTIVER(E) (R)ALDLFSDNAPPPELLEIINEDIAK(R)	5	(K)LAAVDATVNQVLASR(Y) (R)TGEAIVDAALSALR(Q) (R)ALDLFSDNAPPPELLEIINEDIAK(R) (R)GSTAPVGGGAFPTIVER(E)	enzyme	2
1	2.81E+06	Q15149	PLEC	5	(K)VLALPEPSPAAPTLR(S) (R)LLDPEDVDVPQPDEK(S) (K)EAQAVPATLPELEATK(A) (R)LLDAQLATGGIVDPR(L) (R)QEQIQAMPLADSQAVR(E)	22	(K)AGVAAPATQVAQVTLQSVQR(R) (K)AYSDPSTGEPATYGELQQR(C) (K)EAQAVPATLPELEATK(A) (K)EQELQQTLQQEQSVLDQLR(G) (K)GIYQSLEGAVQAGQLK(V)	other	1

							(K)LEQLFQDEVAK(A) (K)NLLDEELQR(L) (K)VLALPEPSPAAPTLR(S) (K)VQSGSESVIQEYVDLR(T) (R)APVPASELLASGVLSR(A) (R)DALDGPAAEAEPEHSFDGLR(R) (R)DPYTGQSVSLFQALK(K) (R)LEDLLQDAQDEK(E) (R)LLDAQLSTGGIVDPSK(S) (R)LLDPEDVDVPQPDEK(S) (R)LQEAGILSAEELQR(L) (R)QEQIQAMPLADSQAVR(E) (R)QQEELLAEENQR(L) (R)QTNLENLDQAFSVAER(D) (R)SLVPAAELLESR(V) (R)SSSVGSSSSYPISPAVSR(T) (R)TQLASWSDPTEETGPVAGILDTETLEK(V)		
11	5.34E+06	Q15233	NONO	3	(R)NLPQYVSNELLEEAFSVFGQVER(A) (R)FAQPGSFEYEYAMR(W) (R)LFVGNLPPDITEEEMR(K)	0		other	0

7	7.12E+06	Q15393	SF3B3	5	(K)LGAVFNQVAFPLQYTPR(K) (R)TVLDPVTGDLSDTR(T) (R)ELAAEMAAAFLNENLPESIFGAPK(A) (R)LPPNTNDEVDEDPTGNK(A) (R)WVTTASLLDYDTVAGADK(F)	6	(R)ELAAEMAAAFLNENLPESIFGAPK(A) (R)TVLDPVTGDLSDTR(T) (R)LPPNTNDEVDEDPTGNK(A) (R)WVTTASLLDYDTVAGADK(F) (K)LGAVFNQVAFPLQYTPR(K) (R)NENQLIIFADDTYPR(W)	other	0
5	6.18E+05	Q15436	SEC23A	2	(R)MVVPVAALFTPLK(E) (R)NWADAQTQIQNIAASFDQEAAAILMAR(L)	0		transporter	1
5	1.03E+06	Q16181	7-Sep	2	(K)IYEFPETDDEEENK(L) (K)FEDYLNAESR(V)	0		other	0
3	3.68E+06	Q16531	DDB1	2	(R)IEVQDTSGGTTALRPSASTQALSSSVSSSK(L) (K)EMLGGEIIPR(S)	0		other	0
4	5.34E+07	Q16576	RBBP7	2	(K)TPSSDVLVFDYTK(H) (K)TVALWDLR(N)	2	(K)IGEEQSAEDAEDGPPELLFIHGGHTAK(I) (K)TPSSDVLVFDYTK(H)	transcription regulator	0
1	4.74E+05	Q16720	ATP2B3	1	(R)QVVAVTGDGTNDGPALK(K)	1	(R)QVVAVTGDGTNDGPALK(K)	transporter	4
4	8.28E+06	Q16891	IMMT	2	(K)TSSAETPTIPLGSAVEAIK(A) (R)ELDSITPEVLPGWK(G)	6	(R)GIEQAVQSHAVAEEEAR(K) (K)LFEMVLGPAAYNVPLPK(K) (R)ELDSITPEVLPGWK(G) (K)TSSAETPTIPLGSAVEAIK(A) (K)SEFEQNLSEK(L) (R)ERPPEEVAAR(L)	other	1

4	4.83E+06	Q5JTZ9	AARS2	2	(R)LDVTTQTPLTPEQLR(A) (K)APPGFLGSLVPVVVETLGDAYPELQR(N)	0		enzyme	0
0	3.56E+05	Q5T4S7	UBR4	2	(K)NAAQELATLLLSLPAPASVQQQSK(S) (K)LEQVSSDEGIGTLAENLLEALR(E)	0		other	2
1	7.65E+05	Q5VYK3	KIAA0368	2	(K)ELQLEYLLGAFESLGK(A) (K)VNDVVPWVLDVILNK(H)	0		other	0
4	2.23E+06	Q6P2Q9	PRPF8	6	(R)TDMIQALGGVEGILEHTLFK(G) (R)DINLQDEDWNEFNDINK(I) (K)SQEPLPDDDEEFELPEFVEPFLK(D) (R)YIQPWESEFIDSQR(V) (K)VPGLPTPIENMILR(Y) (K)ATEPQMVLFNLYDDWLK(T)	4	(R)TDMIQALGGVEGILEHTLFK(G) (R)YIQPWESEFIDSQR(V) (K)NNVNVASLTQSEIR(D) (R)ASEMAGPPQMPNDFLSFQDIATEAAHPIR(L)	other	0
7	1.51E+06	Q7KZF4	SND1	4	(R)ALLLPDYYLVTVMLSGIK(C) (K)VWAHYEEQPVEEVMPVLEEK(E) (R)NDIASHPPVEGSYAPR(R) (R)EADGSETPEPFAAEAK(F)	2	(R)EADGSETPEPFAAEAK(F) (R)DYVAPTANLDQK(D)	enzyme	0
2	1.83E+06	Q7Z6Z7	HUWE1	7	(K)FVESILSNNTTDDHcQEFVNQK(G) (R)LLGPSAAADILQLSSSLPLQSR(G) (R)LLSLISIALPENK(V) (R)LGSSGLGSASSIQAAVR(Q) (R)IPIPLMDYILNVMK(F)	0		transcription regulator	1

					(K)GNDTPLALESTNTEK(E) (K)LPGGVQNFPQFSALR(F)				
8	1.64E+07	Q86VP6	CAND1	6	(K)IDLRPVLGEGVPILASFLR(K) (K)ALTLIAGSPLK(I) (R)AIScMGQIIcNLGDNLGSDLPNTLQIFLER(L) (K)FTISDHPQPIDPLLK(N) (K)ITSEALLVTQQLVK(V) (K)ADVFHAYLSLLK(Q)	0		transcription regulator	0
3	8.20E+05	Q86WB0	ZC3HC1	1	(R)FGmLPLDEPAILVSEFLDR(F)	0		other	1
5	6.70E+06	Q8N163	KIAA1967	3	(K)EAAPDAGAEPITADSDPAYSSK(V) (K)VLLLSSPGLEELYR(C) (K)AAYNPGQAVPWNAVK(V)	2	(K)EAAPDAGAEPITADSDPAYSSK(V) (K)VLLLSSPGLEELYR(C)	peptidase	0
8	3.00E+07	Q8NC51	SERBP1	2	(R)FDQLFDDESDPFEVLK(A) (K)SSASAPDVDDPEAFPALA(-)	0		other	1
4	3.01E+06	Q8WUM4	PDCD6IP	2	(R)DTIVLLcKPEPELNAAIPSANPAK(T) (R)SVIEQGGIQTVDQLIK(E)	0		other	0
7	2.53E+06	Q92499	DDX1	3	(K)GHVDILAPTVQELAALEK(E) (R)FLVLDEADGLLSQGYSDFINR(M) (K)EAQTSFLHLGYLPNQLFR(T)	0		enzyme	0
2	4.51E+05	Q92616	GCN1L1	3	(K)VLPLEALVTDAGEVTEAGK(A)	0		translation regulator	0

					(K)LVLPSLLAALEEESWR(T) (R)NPEILAIAPVLLDALTDPSR(K)				
6	3.71E+06	Q92841	DDX17	3	(R)ELAQQVQQVADDYGK(C) (K)GTAYTFFTPGNLK(Q) (K)APILIATDVASR(G)	2	(R)ELAQQVQQVADDYGK(C) (K)VLEEANQAINPK(L)	enzyme	0
8	1.90E+06	Q92945	KHSRP	4	(R)IINDLLQSLR(S) (K)VQISPDSGGLPER(S) (K)IGGDAATTVNNSTPDFGFGGQK(R) (K)IGQQPQQPGAPPQQDYTK(A)	4	(K)VQISPDSGGLPER(S) (K)IGGDAATTVNNSTPDFGFGGQK(R) (K)AINQQTGAFVEISR(Q) (K)IGQQPQQPGAPPQQDYTK(A)	enzyme	0
3	3.80E+06	Q92973	TNPO1	2	(K)GELQNWPDLLPK(L) (K)SEcLNNIGDSSPLIR(A)	0		transporter	0
4	8.83E+06	Q93034	CUL5	2	(K)DLEEHIISAGLADMVAAAETITTDSEK(Y) (R)TLWSLVAFPK(L)	0		ion channel	0
3	2.42E+06	Q96QK1	VPS35	2	(K)IPVDTYNNILTVLK(L) (R)SEDPDQQYLILNTAR(K)	0		transporter	1
13	5.23E+06	Q96RQ3	MCCC1	5	(R)IYAEDPSNNFMPVAGPLVHLSTPR(A) (R)SEQEFQEQLESAR(R) (K)SIMAAAGVPVVEGYHGEDQSDQcLK(E) (K)YLSSVSSQETQGGPLAPMTGTIEK(V) (K)QEGIIFIGPPPSAIR(D)	2	(R)IYAEDPSNNFMPVAGPLVHLSTPR(A) (K)IIEEAPAPGIK(S)	enzyme	0

3	3.25E+06	Q99460	PSMD1	2	(-)MITSAAGIISLLDEDEPQLK(E) (K)EALQLMATYLPK(D)	0		other	0
8	1.64E+06	Q99798	ACO2	4	(K)DINQEVYNFLATAGAK(Y) (R)WVVIGDENYGEGSSR(E) (R)NAVTQEFGPVPDTAR(Y) (R)VGLIGScTNSSYEDMGR(S)	2	(K)QGLLPLTFADPADYNK(I) (K)SQFTITPGSEQIR(A)	enzyme	0
18	7.68E+06	Q99832	CCT7	5	(K)LPIGDVATQYFADR(D) (K)EGTDSSQGIPQLVSNISAcQVIAEAVR(T) (K)SQDAEVGDGTTSVTLLAAEFLK(Q) (R)INALTAASEAAcLIVSVDETIK(N) (R)QLcDNAGFDATNILNK(L)	0		other	0
2	3.76E+06	Q9BSJ8	ESYT1	2	(R)LLVPLVPDLQDVAQLR(S) (R)ELPAWVSFPDVEK(A)	4	(R)LEWLSLLSDAEK(L) (R)FFLQDPQSQELDVQVK(D) (R)LLVPLVPDLQDVAQLR(S) (R)ELPAWVSFPDVEK(A)	other	2
14	3.26E+06	Q9BY67	CADM1	3	(K)GADDAADADTAIINAEGGQNNSEEK(K) (K)SDDSVIQLLNPNR(Q) (R)EGDALELTcEAIGKPQPVMVTWVR(V)	0		other	5
8	3.35E+06	Q9H845	ACAD9	3	(K)IPVENILGEVGDGFK(V) (R)ILLIFEGTNEILR(M)	0		enzyme	0

					(K)EVFPFPEVSQDELNEINQFLGPVEK(F)				
3	1.21E+06	Q9HAV4	XPO5	2	(K)VFLEELMAPVASIWLSQDMHR(V) (R)EEIPVNDGIELLQMVLNFDTK(D)	0		transporter	0
8	3.67E+06	Q9HCC0	MCCC2	3	(R)NIPLLFLQNITGFMVGR(E) (R)ISVMGGEQAANVLATITK(D) (R)VWDDGIIDPADTR(L)	0		enzyme	0
6	7.93E+05	Q9NVE7	PANK4	2	(R)LERPLVDLPLLLDPPSYVPDTVDLTDDALAR(K) (K)AVSAVLESDPYFGFEEAK(R)	0		kinase	0
8	2.13E+06	Q9NZI8	IGF2BP1	3	(K)TVNELQNLTAAEVVVPR(D) (K)LYIGNLNESVTPADLEK(V) (K)ITISSLQDLTLYNPER(T)	0		translation regulator	2
1	5.53E+06	Q9UI47	CTNNA3	1	(K)NLMNAVVQTVK(A)	0		other	2
4	2.53E+05	Q9UQ80	PA2G4	1	(K)TAENATSGETLEENEAGD(-)	0		transcription regulator	0
4	4.75E+06	Q9Y262	EIF3L	2	(K)LAGFLDLTEQEFR(I) (K)VYEIQDIYENSWTK(L)	0		other	0
6	1.23E+06	Q9Y2X3	NOP58	2	(K)FQDTAEALAAFTALMEGK(I) (R)YDAFGEDSSSAMGVENR(A)	3	(K)FQDTAEALAAFTALMEGK(I) (R)YDAFGEDSSSAmGVENR(A) (K)VDTMIVQAISLLDDLDK(E)	enzyme	0
12	5.50E+06	Q9Y4L1	HYOU1	8	(K)NINADEAAAMGAVYQAAALSK(A) (K)EEAEAPVEDGSQPPPPEPK(G)	9	(K)AANSLEAFIFETQDK(L) (K)DAVITVPVFFNQAER(R)	other	1

					(K)LGNTISSLFGGGTTPDAK(E) (K)LYQPEYQEVSTEEQR(E) (R)SLAEDFAEQPIK(D) (R)DAVVYPILVEFTR(E) (K)AANSLEAFIFETQDK(L) (K)DAVITVPVFFNQAER(R)		(K)DEPGEQVELKEEAEAPVEDGSQPPPPEPK(G) (K)LGNTISSLFGGGTTPDAK(E) (K)LYQPEYQEVSTEEQR(E) (K)NINADEAAAMGAVYQAAALSK(A) (R)DAVVYPILVEFTR(E) (R)VESVFETLVEDSAEEESTLTK(L) (R)VPGPVQQALQSAEMSLDEIEQVILVGGATR(V)		
4	3.32E+06	Q9Y678	COPG	3	(K)TLEEAVGNIVK(F) (K)ELAPAVSVLQLFcSSPK(A) (R)QEIFQEQLAAVPEFR(G)	0		transporter	0
10	1.04E+07	O00116	AGPS	0		4	(K)GFDPNQLSVATLLFEGDR(E) (R)AASAATAAPTATPAAQESGTIPK(K) (R)GISDPLTVFEQTEAAAR(E) (K)FGGLAAGEDNGQR(G)	enzyme	2
7	9.93E+06	O00469	PLOD2	0		3	(K)IVGPEENLSQAEAR(N) (K)IFTENIVEQPcPDVFWFPIFSEK(A) (R)ISGGYENVPTDDIHmK(Q)	enzyme	1
2	2.45E+06	O60264	SMARCA5	0		2	(R)TEQEEDEELLTESSK(A) (K)IDEAESLNDEELEEK(E)	transcription regulator	0
2	1.40E+07	O60488	ACSL4	0		1	(R)LSPEPWTPETGLVTDAFK(L)	enzyme	2
17	2.04E+07	O60506	SYNCRIP	0		7	(R)DLFEDELVPLFEK(A)	other	0

							(K)VTEGLTDVILYHQPDDK(K) (R)NLANTVTEEILEK(A) (K)VWGNVGTVEWADPIEDPDPEVMAK(V) (K)SENQEFYQDTFGQQWK(-) (K)AGPIWDLR(L) (K)EFNEDGALAVLQQFK(D)		
7	2.43E+06	O60568	PLOD3	0		3	(R)YDTEHLHPDLWQIFDNPVDWK(E) (R)IFQNLNGALDEVVLK(F) (R)NVAYDTLPIVVHGNGPTK(L)	enzyme	1
5	3.47E+06	O60716	CTNND1	0		3	(R)DMDLTEVITGTLWNLSSHDSIK(M) (R)YQEAAPNVANNTGPHAAScFGAK(K) (R)GYELLFQPEVVR(I)	other	2
5	1.08E+07	O75694	NUP155	0		4	(R)NSQFAGGPLGNPNTTAK(V) (R)EITAIESSVPcQLLESVLQELK(G) (R)IMGNIWDASLVVER(I) (R)VASVSQNAIVSAAGNIAR(T)	transporter	2
0	1.56E+07	O75923	DYSF	0		2	(K)NLVDPFVEVSFAGK(K) (R)AEDLPQMDDAFSQTVK(E)	other	4
4	1.34E+07	O95573	ACSL3	0		2	(R)IGYSSPQTLADQSSK(I) (R)LSPEPWTPETGLVTDAFK(L)	enzyme	2

4	1.72E+07	O95831	AIFM1	0		2	(K)AALSASEGEEVPQDK(A) (R)ALGTEVIQLFPEK(G)	enzyme	1
11	1.25E+07	P04040	CAT	0		3	(R)GPLLVQDVVFTDEMAHFDR(E) (K)ADVLTTGAGNPVGDK(L) (R)NPVNYFAEVEQIAFDPSNmPPGIEASPDK(M)	enzyme	2
5	5.93E+06	P04843	RPN1	0		2	(R)ATSFLLALEPELEAR(L) (K)VTAEVVLAHLGGGSTSR(A)	enzyme	2
9	1.46E+08	P07237	P4HB	0		3	(K)HNQLPLVIEFTEQTAPK(I) (K)QFLQAAEAIDDIPFGITSNSDVFSK(Y) (K)ENLLDFIK(H)	enzyme	2
1	7.39E+06	P12270	TPR	0		3	(K)TLSSVQNEVQEALQR(A) (R)NLQEQTVQLQSELSR(L) (K)EGVQGPLNVSLSEEGK(S)	other	1
3	1.28E+07	P12830	CDH1	0		2	(R)DTANWLEINPDTGAISTR(A) (K)GQVPENEANVVITTLK(V)	other	5
21	1.73E+07	P13667	PDIA4	0		8	(K)GESDPAYQQYQDAANNLR(E) (R)ENAIEDEEEEEEEDDDEEEDDLEVK(E) (K)FAmEPEEFDSDTLR(E) (K)VEGFPTIYFAPSGDK(K) (K)VDATAETDLAK(R) (K)YGIVDYMIEQSGPPSK(E)	enzyme	1

							(K)DFPEYTFAIADEEDYAGEVK(D) (R)EVSQPDWTPPPEVTLVLTK(E)		
5	7.55E+06	P13674	P4HA1	0		2	(K)SAWLSGYENPVVSR(I) (R)LNTEWSELENLVLK(D)	enzyme	0
8	1.86E+06	P14923	JUP	0		3	(K)TLVTQNSGVEALIHAILR(A) (R)LNTIPLFVQLLYSSVENIQR(V) (K)EAADAIDAEGASAPLMELLHSR(N)	other	3
10	2.51E+06	P23219	PTGS1	0		3	(R)VPDASQDDGPAVERPSTEL(-) (K)ALGHGVDLGHIYGDNLER(Q) (K)EmAAELEELYGDIDALEFYPGLLLEK(C)	enzyme	3
4	5.03E+06	P26639	TARS	0		2	(K)VNNVVWDLDRPLEEDcTLELLK(F) (R)AELNPWPEYIYTR(L)	enzyme	0
13	3.13E+07	P26641	EEF1G	0		4	(K)KAAAPAPEEEmDEcEQALAAEPK(A) (R)KLDPGSEETQTLVR(E) (K)YSNEDTLSVALPYFWEHFDK(D) (K)LDPGSEETQTLVR(E)	translation regulator	0
20	2.27E+07	P29966	MARCKS	0		3	(K)GEPAAAAAPEAGASPVEK(E) (K)GEAAAERPGEAAVASSPSK(A) (K)EELQANGSAPAADKEEPAAAGSGAASPSAAEK(G)	other	3
2	1.04E+07	P34896	SHMT1	0		1	(R)ISATSIFFESMPYK(L)	enzyme	0

5	1.50E+07	P34897	SHMT2	0		2	(K)TGLIDYNQLALTAR(L) (R)ISATSIFFESMPYK(L)	enzyme	1
6	2.92E+06	P34932	HSPA4	0		3	(R)EFSITDVVPYPISLR(W) (K)TSTVDLPIENQLLWQIDR(E) (K)SNLAYDIVQLPTGLTGIK(V)	other	0
4	3.25E+06	P35222	CTNNB1	0		2	(K)LLNDEDQVVVNK(A) (R)GLNTIPLFVQLLYSPIENIQR(V)	transcription regulator	2
5	5.20E+06	P38606	ATP6V1A	0		2	(K)EILQEEEDLAEIVQLVGK(A) (R)TALVANTSNmPVAAR(E)	transporter	1
7	5.00E+06	P43304	GPD2	0		3	(R)LAFLNVQAAEEALPR(I) (R)LVQDYGLESEVAQHLAATYGDK(A) (R)YGAATANYMEVVSLLK(K)	enzyme	1
6	1.71E+07	P48449	LSS	0		4	(R)LSAAEDPLVQSLR(Q) (R)NPDGGFATYETK(R) (R)ILGVGPDDPDLVR(A) (R)FSQLYPER(A)	enzyme	1
6	2.77E+06	P49368	CCT3	0		2	(R)NVLLDPQLVPGGGASEMAVAHALTEK(S) (K)ALDDmISTLK(K)	other	2
19	3.36E+07	P50454	SERPINH1	0		5	(R)SALQSINEWAAQTTDGK(L) (K)DQAVENILVSPVVVASSLGLVSLGGK(A) (R)LYGPSSVSFADDFVR(S)	other	2

							(K)AVLSAEQLR(D) (R)DEEVHAGLGELLR(S)		
6	3.14E+07	P51659	HSD17B4	0		3	(R)VLQQFADNDVSR(F) (K)AVANYDSVEEGEK(V) (K)IcDFENASKPQSIQESTGSIIEVLSK(I)	enzyme	0
0	5.86E+06	P58107	EPPK1	0		1	(R)EELLAEFGSGTLDLPALTR(R)	other	0
2	5.00E+06	P69849		2	(K)SSIDSEPALVLGPLK(S) (R)DGENYVVLLDSTLPR(S)	0		other	2
3	5.56E+06	Q01970	PLCB3	0		2	(R)LVAGQQQVLQQLAEEEPK(L) (R)DDLIASILSEVAPTPLDELR(G)	enzyme	1
4	1.83E+07	Q02809	PLOD1	0		2	(R)FLGSGGFIGYAPNLSK(L) (R)VGVWNVPYISNIYLIK(G)	enzyme	1
2	8.59E+06	Q09666	AHNAK	0		9	(K)GEGPEVDVNLPK(A) (K)IDVTAPDVSIEEPEGK(L) (K)mDVNVGDIDIEGPEGK(L) (K)VDIDTPDINIEGSEGK(F) (K)VDIEAPDVSLEGPEGK(L) (K)VDIEGPDVNIEGPEGK(L) (K)VDVDVPDVNIEGPDAK(L) (K)VDVEVPDVSLEGPEGK(L) (K)VGVEVPDVNIEGPEGK(L)	other	0

2	2.27E+06	Q10570	CPSF1	0		2	(R)ISVLPAYLSYDAPWPVR(K) (R)VLVDSSFGQPTTQGEAR(R)	other	0
5	9.37E+06	Q12860	CNTN1	3	(K)TDGAAPNVAPSDVGGGGGR(N) (R)WLLNEFPVFITMDK(R) (R)FVSQTNGNLYIANVEASDK(G)	0		enzyme	3
8	5.38E+06	Q13724	MOGS	4	(R)LAGSLLTQALESHAEGFR(E) (K)YGSYNVFWTSNPGLPLLTEMVK(S) (K)VDPALFPPVPLFTAVPSR(S) (R)SLAASSSFYGQR(N)	0		enzyme	2
10	3.35E+07	Q14103	HNRNPD	3	(K)MFIGGLSWDTTK(K) (R)EYFGGFGEVESIELPMDNK(T) (R)GFGFVLFK(E)	0		transcription regulator	0
4	3.79E+06	Q14151	SAFB2	2	(K)SEPVKEESSELEQPFAQDTSSVGPDR(K) (R)NLDtGGNKSVLMER(L)	0		other	0
5	5.41E+06	Q14166	TTLL12	2	(R)DFAYGETDPLIR(K) (R)SSPGQTPEEGAQALAEFAALHGPALR(A)	0		other	0
2	5.00E+06	Q15155	NOMO1	2	(K)SSIDSEPALVLGPLK(S) (R)DGENYVVLLDSTLPR(S)	0		other	3
2	5.59E+06	Q15424	SAFB	1	(K)SEPVKEESSELEQPFAQDTSSVGPDR(K)	0		other	0
3	1.72E+07	Q5BKZ1	ZNF326	2	(R)FGPYESYDSR(S)	0		transcription	0

					(R)SGYGFNEPEQSR(F)			regulator	
13	5.70E+07	Q6NZI2	PTRF	3	(K)IIGAVDQIQLTQAQLEER(Q) (K)ATEMVEVGADDDEGGAER(G) (R)QAEMEGAVQSIQGELSK(L)	0		transcription regulator	2
5	5.39E+06	Q6NZY4	ZCCHC8	2	(K)LGQPLLNENPQLSEGWEIPK(Y) (K)DGTDGETEVGEIQQNK(S)	0		other	0
5	2.78E+06	Q6YHK3	CD109	5	(K)SNLIQQWLSQQSDLGVISK(T) (K)TLTLPSLPLNSADEIYELR(V) (K)GDVTLTFLPLSFWGK(K) (K)DYIDGVYDNAEYAER(F) (R)TNIQVTVTGPSSPSPVK(F)	0		other	4
2	7.31E+06	Q86UP2	KTN1	0		3	(K)WLQDLQEENESLK(A) (R)DAVSNTTNQLESK(Q) (K)TQLLQDVQDENK(L)	other	3
5	1.20E+06	Q8N684	CPSF7	0		1	(K)AVSGASAGDYSDAIETLLTAIAVIK(Q)	other	0
5	4.83E+07	Q8WVM8	SCFD1	0		2	(K)SLLDIISDPDAGTPEDK(M) (K)GSPFPEVAESVQQELESYR(A)	transporter	2
6	1.58E+07	Q92598	HSPH1	0		3	(K)VLGTAFDPFLGGK(N) (R)LLTETEDWLYEEGEDQAK(Q) (R)RGPFELEAFYSDPQGVPYPEAK(I)	other	0

5	1.28E+07	Q96RP9	GFM1	0		2	(K)GVQPLLDAVLEYLPNPSEVQNYAILNK(E) (K)VIGVLEPLDPEDYTK(L)	translation regulator	1
8	7.93E+06	Q99729	HNRNPAB	0		2	(R)EYFGEFGEIEAIELPMDPK(L) (R)GFGFILFK(D)	enzyme	0
2	9.17E+06	Q9BQ39	DDX50	0		1	(K)EGAFSNFPISEETIK(L)	enzyme	0
2	1.03E+06	Q9BQG0	MYBBP1A	0		2	(K)ATLQEILPEVLK(A) (R)EAVSSAFFSLLQTLSTQFK(Q)	transcription regulator	0
6	1.62E+07	Q9BXW7	CECR5	0		1	(R)DLcFSPGLMEASHVVNDVNEAVQLVFR(K)	other	0
4	4.53E+06	Q9H0D6	XRN2	0		2	(R)AALEEVYPDLTPEETR(R) (K)LmSDPDSSIIDFYPEDFAIDLNGK(K)	enzyme	0
8	6.78E+06	Q9NR30	DDX21	0		4	(K)TFSFAIPLIEK(L) (K)DSEDNPQTLLFSATcPHWVFNVAK(K) (K)EGAFSNFPISEETIK(L) (K)TEEIAEEEETVFPK(A)	enzyme	0
1	7.78E+06	Q9NYU2	UGGT1	0		2	(K)LNIQPSEADYAVDIR(S) (R)SPAISWVNNLEVDSR(Y)	enzyme	2
6	1.15E+07	Q9NZM1	MYOF	0		9	(K)LEGALGADTTEDGDEK(S) (R)LDAVNTLLAMAER(L) (K)NLVDPFVEVSFAGK(K) (R)VIVESASNIPK(T) (R)DIVIEMEDTKPLLASK(L)	other	3

							(R)AEDIPQMDDAFSQTVK(E) (R)IPAHQVLYSTSGENASGK(Y) (K)GPVGTVSEAQLAR(R) (K)NANPEWNQVVNLQIK(F)		
3	7.96E+05	Q9P2E9	RRBP1	0		2	(R)DAQDVQASQAEADQQQTR(L) (K)SHVEDGDIAGAPASSPEAPPAEQDPVQLK(T)	transporter	3
16	5.13E+06	Q9UJZ1	STOML2	0		3	(K)AEQINQAAGEASAVLAK(A) (K)ASYGVEDPEYAVTQLAQTTMR(S) (R)ESLNASIVDAINQAADcWGIR(C)	other	2
6	1.82E+07	Q9Y6N5	SQRDL	0		2	(K)TAAAVAAQSGILDR(T) (K)EGNAIFTFPNTPVK(C)	enzyme	0
3	8.81E+05	P10253	GAA	2	(R)GAYTQVIFLAR(N) (R)AGYIIPLQGPGLTTTESR(Q)	2	(R)GAYTQVIFLAR(N) (R)AGYIIPLQGPGLTTTESR(Q)	enzyme	2
5	1.55E+06	P04264	KRT1	3	(R)FSScGGGGGSFGAGGGFGSR(S) (R)GFSSGSAVVSGGSR(R) (R)GGGGGGYGSGGSSYGSGGGSYGSGGGGGGGR(G)	3	(R)MSGEcAPNVSVSVSTSHTTISGGGSR(G) (R)NKLNDLEEALQQAK(E) (R)NLDLDSIIAEVK(A)	other	2
14	6.11E+06	P02794	FTH1	3	(K)mGAPESGLAEYLFDK(H) (R)KmGAPESGLAEYLFDK(H) (K)NVNQSLLELHK(L)	3	(K)mGAPESGLAEYLFDK(H) (K)NVNQSLLELHK(L)	enzyme	0
0	1.13E+06	P15924	DSP	2	(K)GFFDPNTEENLTYLQLK(E) (K)AQQIHSQTSQQYPLYDLDLGK(F)	2	(K)GFFDPNTEENLTYLQLK(E) (K)ENAAYFQFFEEAQSTEAYLK(G)	other	2
12	1.26E+06	Q16658	FSCN1	3	(R)DVPWGVDSLITLAFQDQR(Y)	3	(R)DVPWGVDSLITLAFQDQR(Y)	other	0

					(K)VGKDELFALEQScAQVVLQAANER(N) (R)SSYDVFQLEFNDGAYNIK(D)		(K)VGKDELFALEQScAQVVLQAANER(N) (R)SSYDVFQLEFNDGAYNIK(D)		
9	2.05E+06	P68363	TUBA1B	3	(R)AVFVDLEPTVIDEVR(T) (K)DYEEVGADSADGEDEGEEY(-) (K)TIGGGDDSFNTFFSETGAGK(H)	3	(K)TIGGGDDSFNTFFSETGAGK(H) (R)FDGALNVDLTEFQTNLVPYPR(I) (K)EIIDLVLDR(I)	other	1
9	2.05E+06	Q71U36	TUBA1A	3	(R)AVFVDLEPTVIDEVR(T) (K)DYEEVGADSADGEDEGEEY(-) (K)TIGGGDDSFNTFFSETGAGK(H)	3	(K)TIGGGDDSFNTFFSETGAGK(H) (R)FDGALNVDLTEFQTNLVPYPR(I) (K)EIIDLVLDR(I)	other	1
10	2.05E+06	Q9BQE3	TUBA1C	3	(R)AVFVDLEPTVIDEVR(T) (K)DYEEVGADSADGEDEGEEY(-) (K)TIGGGDDSFNTFFSETGAGK(H)	3	(K)TIGGGDDSFNTFFSETGAGK(H) (R)FDGALNVDLTEFQTNLVPYPR(I) (K)EIIDLVLDR(I)	other	1
6	1.91E+06	Q13748	TUBA3C	3	(R)IHFPLATYAPVISAEK(A) (R)AVFVDLEPTVIDEVR(T) (K)AYHEQLSVAEITNAcFEPANQMVK(C)	2	(R)FDGALNVDLTEFQTNLVPYPR(I) (R)IHFPLATYAPVISAEK(A)		1
6	1.91E+06	Q6PEY2	TUBA3E	3	(R)IHFPLATYAPVISAEK(A) (R)AVFVDLEPTVIDEVR(T) (K)AYHEQLSVAEITNAcFEPANQMVK(C)	2	(R)FDGALNVDLTEFQTNLVPYPR(I) (R)IHFPLATYAPVISAEK(A)	other	1
7	4.70E+06	Q15019	SEPT2	2	(K)ASIPFSVVGSNQLIEAK(G) (R)ILDEIEEHNIK(I)	2	(K)ASIPFSVVGSNQLIEAK(G) (R)ILDEIEEHNIK(I)	enzyme	2
17	1.88E+06	O00151	PDLIM1	3	(R)VITNQYNNPAGLYSSENISNFNNALESK(T) (R)SAmPFTASPASSTTAR(V) (K)GcTDNLTLTVAR(S)	3	(R)LVGGKDFEQPLAISR(V) (R)VTPPEGYEVVTVFPK(-) (K)GcTDNLTLTVAR(S)	transcription regulator	0
7	2.24E+06	P04083	ANXA1	2	(K)TPAQFDADELR(A) (R)SEDFGVNEDLADSDAR(A)	2	(K)TPAQFDADELR(A) (K)GVDEATIIDILTK(R)	other	2

4	3.65E+06	P23142	FBLN1	2	(K)IIEVEEEQEDPYLNDR(C) (K)SQETGDLDVGGLQETDK(I)	3	(K)IIEVEEEQEDPYLNDR(C) (K)TGYYFDGISRMCVDV(N) (K)SQETGDLDVGGLQETDK(I)	other	1
8	7.75E+06	Q92597	NDRG1	2	(K)SIIGmGTGAGAYILTR(F) (K)ISGWTQALPDmVVSHLFGK(E)	2	(K)SIIGmGTGAGAYILTR(F) (K)ISGWTQALPDmVVSHLFGK(E)	kinase	2
28	1.84E+07	P19961	AMY2B	10	(K)AHFSISNSAEDPFIAIHAESK(L) (K)IAEYMNHLIDIGVAGFR(I) (K)MAVGFMLAHPYGFTR(V) (K)NWGEGWGFMPSDR(A) (K)TGSGDIENYNDATQVR(D) (R)ALVFVDNHDNQR(G) (R)DFPAVPYSGWDFNDGK(C) (R)GHGAGGASILTFWDAR(L) (R)LSGLLDLALGKDYVR(S) (R)TSIVHLFEWR(W)	9	(K)AHFSISNSAEDPFIAIHAESK(L) (K)HmWPGDIK(A) (K)IAEYMNHLIDIGVAGFR(I) (K)MAVGFMLAHPYGFTR(V) (K)TGSGDIENYNDATQVR(D) (R)ALVFVDNHDNQR(G) (R)DFPAVPYSGWDFNDGK(C) (R)GHGAGGASILTFWDAR(L) (R)TSIVHLFEWR(W)	enzyme	1
25	1.79E+07	P04746	AMY2A	9	(K)AHFSISNSAEDPFIAIHAESK(L) (K)IAEYMNHLIDIGVAGFR(I) (K)MAVGFMLAHPYGFTR(V) (K)TGSGDIENYNDATQVR(D) (R)ALVFVDNHDNQR(G) (R)DFPAVPYSGWDFNDGK(C) (R)GHGAGGASILTFWDAR(L) (R)IYVDAVINHMcGNAVSAGTSSTcGSYFNPGSR(D) (R)TSIVHLFEWR(W)	8	(K)AHFSISNSAEDPFIAIHAESK(L) (K)IAEYMNHLIDIGVAGFR(I) (K)MAVGFMLAHPYGFTR(V) (K)TGSGDIENYNDATQVR(D) (R)ALVFVDNHDNQR(G) (R)DFPAVPYSGWDFNDGK(C) (R)GHGAGGASILTFWDAR(L) (R)TSIVHLFEWR(W)	enzyme	1
23	3.10E+07	P23280	CA6	6	(K)SYDIAQDAPDGLAVLAAFVEVK(N)	7	(K)SYDIAQDAPDGLAVLAAFVEVK(N)	enzyme	1

					(R)TTLTGLDVQDmLPR(N) (R)HVIEIHIVHYNSK(Y) (K)IEEILDYLR(R) (K)NYPENTYYSNFISHLANIK(Y) (K)LENSLLDHR(N)		(R)TTLTGLDVQDmLPR(N) (R)HVIEIHIVHYNSK(Y) (K)IEEILDYLR(R) (K)NYPENTYYSNFISHLANIK(Y) (K)LENSLLDHR(N) (R)VVESNFPNQEYTLG(S)		
36	6.18E+06	P60709	ACTB	8	(K)SYELPDGQVITIGNER(F) (R)TTGIVMDSGDGVTHTVPIYEGYALPHAILR(L) (R)VAPEEHPVLLTEAPLNPK(A) (K)DLYANTVLSGGTTMYPGIADR(M) (K)LcYVALDFEQEmATAASSSSLEK(S) (K)EITALAPSTmK(I) (K)DSYVGDEAQSK(R) (R)DLTDYLmK(I)	6	(K)SYELPDGQVITIGNER(F) (R)VAPEEHPVLLTEAPLNPK(A) (K)DLYANTVLSGGTTMYPGIADR(M) (K)LcYVALDFEQEmATAASSSSLEK(S) (K)DSYVGDEAQSK(R) (R)DLTDYLmK(I)	other	1
31	9.79E+06	Q07021	C1QBP	7	(K)AFVDFLSDEIKEER(K) (K)MSGGWELELNGTEAK(L) (K)AFVDFLSDEIK(E) (K)ALVLDcHYPEDEVGQEDEAESDIFSIR(E) (K)ITVTFNINNSIPPTFDGEEEP(S) (K)VEEQEPELTSTPNFVVEVIK(N) (R)EVSFQSTGESEWK(D)	6	(K)AFVDFLSDEIKEER(K) (K)MSGGWELELNGTEAK(L) (K)ALVLDcHYPEDEVGQEDEAESDIFSIR(E) (K)VEEQEPELTSTPNFVVEVIK(N) (R)EVSFQSTGESEWK(D) (K)AFVDFLSDEIK(E)	other	1

24	2.06E+06	P08134	RHOC	2	(K)QVELALWDTAGQEDYDR(L) (R)LRPLSYPDTDVILMcFSIDSPDSLENIPEK(W)	2	(K)QVELALWDTAGQEDYDR(L) (R)LRPLSYPDTDVILMcFSIDSPDSLENIPEK(W)	enzyme	4
24	2.06E+06	P61586	RHOA	2	(K)QVELALWDTAGQEDYDR(L) (R)LRPLSYPDTDVILMcFSIDSPDSLENIPEK(W)	2	(K)QVELALWDTAGQEDYDR(L) (R)LRPLSYPDTDVILMcFSIDSPDSLENIPEK(W)	enzyme	3
20	1.33E+06	P04792	HSPB1	2	(R)VSLDVNHFAPDELTVK(T) (R)KYTLPPGVDPTQVSSSLSPEGTLTVEAPMPK(L)	2	(K)LATQSNEITIPVTFESR(A) (R)LFDQAFGLPR(L)	other	1
13	3.07E+05	P11766	ADH5	3	(K)AGDTVIPLYIPQCGE(C) (K)AHEVRIKIIATAVCHTDAY(T) (K)VDEFVTHNLSFDEI(N)	3	(K)AGDTVIPLYIPQCGE(C) (K)AHEVRIKIIATAVCHTDAY(T) (K)VDEFVTHNLSFDEI(N)	enzyme	0
7	3.37E+05	Q99536	VAT1	2	(R)EVAEAATGEDASSPPPK(T) (R)TWWNQFSVTALQLLQANR(A)	2	(R)EVAEAATGEDASSPPPK(T) (R)TWWNQFSVTALQLLQANR(A)	transporter	1
13	4.58E+05	P02774	GC	5	(K)SCESNSPFPVHPGTAECC(T) (K)EYANQFMWEYSTNYGQAPL(S) (K)CCESASEDCMAKELPEHT(V) (K)RSDFASNCCSIN(S) (S)LGECCDVEDSTTCF(N)	4	(K)SCESNSPFPVHPGTAECC(T) (K)EYANQFMWEYSTNYGQAPL(S) (K)RSDFASNCCSIN(S) (S)LGECCDVEDSTTCF(N)	transporter	1
12	4.43E+05	P36952	SERPINB5	3	(K)SLNLSTEFISSTK(R) (K)HIFSEDTSDFSGMSETK(G) (K)DLTDGHFENILADN(S)	4	(K)SLNLSTEFISSTK(R) (K)HIFSEDTSDFSGMSETK(G) (K)DLTDGHFENILADN(S) (K)VCLEITEDGGDSIEVPGA(R)	other	1
34	2.87E+08	P04406	GAPDH	9	(K)WGDAGAEYVVESTGVFTTMEK(A) (K)LISWYDNEFGYSNR(V) (K)LVINGNPITIFQER(D) (K)LVINGNPITIFQERDPSK(I)	8	(K)LISWYDNEFGYSNR(V) (K)LVINGNPITIFQER(D) (K)LVINGNPITIFQERDPSK(I) (K)RVIISAPSADAPMFVMGVNHEK(Y)	enzyme	2

					(K)RVIISAPSADAPMFVMGVNHEK(Y) (K)VIHDNFGIVEGLMTTVHAITATQK(T) (K)WGDAGAEYVVESTGVFTTMEK(A) (R)GALQNIIPASTGAAK(A) (R)VIISAPSADAPMFVMGVNHEK(Y)		(K)VIHDNFGIVEGLMTTVHAITATQK(T) (K)WGDAGAEYVVESTGVFTTMEK(A) (R)GALQNIIPASTGAAK(A) (R)VIISAPSADAPMFVMGVNHEK(Y)		
21	2.37E+07	P06396	GSN	8	(K)AGALNSNDAFVLK(T) (K)NWRDPDQTDGLGLSYLSSHIANVER(V) (K)QTQVSVLPEGGETPLFK(Q) (K)TPSAAYLWVGTGASEAEK(T) (K)VSNGAGTMSVSLVADENPFAQGALK(S) (R)AQPVQVAEGSEPDGFWEALGGK(A) (R)DPDQTDGLGLSYLSSHIANVER(V) (R)EVQGFESATFLGYFK(S)	9	(K)AGALNSNDAFVLK(T) (K)NWRDPDQTDGLGLSYLSSHIANVER(V) (K)QTQVSVLPEGGETPLFK(Q) (K)TPSAAYLWVGTGASEAEK(T) (K)VSNGAGTMSVSLVADENPFAQGALK(S) (K)GRRVVRATEVPVSWESFNNGDC(F)I (R)AQPVQVAEGSEPDGFWEALGGK(A) (R)DPDQTDGLGLSYLSSHIANVER(V) (R)EVQGFESATFLGYFK(S)	other	1
29	4.70E+06	P21796	VDAC1	8	(K)TKSENGLEFTSSGSANTETTK(V) (R)VTQSNFAVGYK(T) (K)WNTDNTLGTEITVEDQLAR(G) (K)VNNSSLIGLGYTQTLKPGIK(L) (K)SENGLEFTSSGSANTETTK(V) (K)LTFDSSFSPNTGK(K) (K)LETAVNLAWTAGNSNTRFG(I) (R)FGIAAKYQIDPDACF(S)	6	(K)TKSENGLEFTSSGSANTETTK(V) (R)VTQSNFAVGYK(T) (K)WNTDNTLGTEITVEDQLAR(G) (K)VNNSSLIGLGYTQTLKPGIK(L) (K)SENGLEFTSSGSANTETTK(V) (K)LTFDSSFSPNTGK(K)	ion channel	2
6	7.84E+06	P12109	COL6A1	3	(R)DAEEAISQTIDTIVDMIK(N) (K)DVFDFIPGSDQLNVIScQGLAPSQGRPGLSLVK(E) (R)LLLFSDGNSQGATPAAIEK(A)	3	(R)DAEEAISQTIDTIVDMIK(N) (K)DVFDFIPGSDQLNVIScQGLAPSQGRPGLSLVK(E) (R)LLLFSDGNSQGATPAAIEK(A)	other	1
11	2.59E+07	P40926	MDH2	3	(K)VDFPQDQLTALTGR(I)	2	(K)VDFPQDQLTALTGR(I)	enzyme	1

					(K)AGAGSATLSmAYAGAR(F) (R)ANTFVAELK(G)		(R)ANTFVAELK(G)		
1	5.05E+06	P12111	COL6A3	2	(K)NADPAELEQIVLSPAFILAAESLPK(I) (K)LLTPITTLTSEQIQK(L)	3	(K)NADPAELEQIVLSPAFILAAESLPK(I) (R)VGVVQFSNDVFPEFYLK(T) (K)LLTPITTLTSEQIQK(L)	other	1
11	2.11E+07	P51884	LUM	2	(K)NIPTVNENLENYYLEVNQLEK(F) (R)LPSGLPVSLLTLYLDNNK(I)	2	(K)NIPTVNENLENYYLEVNQLEK(F) (R)LPSGLPVSLLTLYLDNNK(I)	other	1
5	1.98E+07	P07384	CAPN1	2	(R)TDIcQGALGDcWLLAAIASLTLNDTLLHR(V) (R)NYPATFWVNPQFK(I)	2	(R)TDIcQGALGDcWLLAAIASLTLNDTLLHR(V) (R)NYPATFWVNPQFK(I)	peptidase	2
20	4.60E+07	P56537	EIF6	3	(R)QTVADQVLVGSYcVFSNQGGLVHPK(T) (K)TSIEDQDELSSLLQVPLVAGTVNR(G) (R)QTVADQVLVGSYCVF(S)	2	(R)QTVADQVLVGSYcVFSNQGGLVHPK(T) (K)TSIEDQDELSSLLQVPLVAGTVNR(G)	translation regulator	1
9	2.59E+06	P50395	GDI2	2	(K)SPYLYPLYGLGELPQGFAR(L) (K)IYKVPSTEAEALASSLMGLFEK(R)	2	(K)SPYLYPLYGLGELPQGFAR(L) (K)IYKVPSTEAEALASSLMGLFEK(R)	other	1
6	8.73E+06	P02675	FGB	2	(R)NSVDELNNNVEAVSQTSSSSFQYMYLLK(D) (K)GGETSEmYLIQPDSSVKPYR(V)	2	(K)HQLYIDETVNSNIPTNLR(V) (K)DNENVVNEYSSELEK(H)	other	3
3	8.86E+05	P18206	VCL	2	(R)VDQLTAQLADLAAR(G) (R)ALASQLQDSLK(D)	2	(K)SLLDASEEAIKK(D) (K)VAMANIQPQmLVAGATSIAR(R)	enzyme	3
9	1.55E+07	P19971	TYMP	2	(R)DVTATVDSLPLITASILSK(K) (R)DLVTTLGGALLWLSGHAGTQAQGAAR(V)	2	(R)DLVTTLGGALLWLSGHAGTQAQGAAR(V) (R)DVTATVDSLPLITASILSK(K)	growth factor	1
4	3.93E+07	P19652	ORM1/ORM2	3	(K)WFYIASAFR(N) (K)EQLGEFYEALDCLCIPR(S) (K)TEDTIFLREYQT(R)	2	(K)WFYIASAFR(N) (K)TEDTIFLREYQT(R)	other	1
6	8.09E+06	P35611	ADD1	2	(R)VNSEQEHFLIVPFGLLYSEVTASSLVK(I) (R)TSTSAVPNLFVPLNTNPK(E)	2	(R)VNSEQEHFLIVPFGLLYSEVTASSLVK(I) (R)TSTSAVPNLFVPLNTNPK(E)	other	2

9	7.13E+06	P47756	CAPZB	2	(K)LEVEANNAFDQYR(D) (K)YDPPLEDGAMPSAR(L)	3	(K)LEVEANNAFDQYR(D) (K)YDPPLEDGAMPSAR(L) (K)GCWDSIHVVEVQ(E)	other	0
13	3.00E+06	P27105	STOM	2	(K)NSTIVFPLPIDMLQGIIGAK(H) (R)VQNATLAVANITNADSATR(L)	2	(K)NSTIVFPLPIDMLQGIIGAK(H) (R)VQNATLAVANITNADSATR(L)	other	4
5	1.21E+07	P00751	CFB	2	(K)EAGIPEFYDYDVALIK(L) (R)LLQEGQALEYVcPSGFYPYPVQTR(T)	2	(K)DISEVVTPR(F) (K)EKLQDEDLGFL(-)	peptidase	2
13	1.26E+07	P04899	GNAI2	3	(K)ITHSPLTIcFPEYTGANKYDEAASYIQSK(F) (R)SREYQLNDSAAYYLNDLER(I) (K)NILDRQDPPSVVVTSHQAPGE(K)	2	(K)ITHSPLTIcFPEYTGANKYDEAASYIQSK(F) (R)SREYQLNDSAAYYLNDLER(I)	enzyme	3
10	4.30E+06	P45880	VDAC2	2	(K)YQLDPTASISAK(V) (K)VNNSSLIGVGYTQTLRPGVK(L)	2	(K)YQLDPTASISAK(V) (K)VNNSSLIGVGYTQTLRPGVK(L)	ion channel	1
1	5.01E+06	P02751	FN1	2	(R)NTFAEVTGLSPGVTYYFK(V) (R)NLQPASEYTVSLVAIK(G)	2	(R)NTFAEVTGLSPGVTYYFK(V) (R)NLQPASEYTVSLVAIK(G)	enzyme	1
12	3.81E+06	P62873	GNB1	2	(R)VScLGVTDDGMAVATGSWDSFLK(I) (R)KAcADATLSQITNNIDPVGR(I)	2	(R)VScLGVTDDGMAVATGSWDSFLK(I) (R)KAcADATLSQITNNIDPVGR(I)	enzyme	3
10	5.12E+06	P07355	ANXA2	2	(R)RAEDGSVIDYELIDQDAR(D) (K)GVDEVTIVNILTNR(S)	2	(K)SLYYYIQQDTK(G) (K)LSLEGDHSTPPSAYGSVK(A)	other	3
13	2.71E+07	P01903	HLA-DRA	2	(R)NGKPVTTGVSETVFLPR(E) (R)FASFEAQGALANIAVDK(A)	2	(R)FASFEAQGALANIAVDK(A) (R)NGKPVTTGVSETVFLPR(E)	transmembrane receptor	5
13	3.80E+05	P25311	AZGP1	4	(R)AGEVQEPELR(G) (R)QDPPSVVVTSHQAPGEK(K) (R)YSLTYIYTGLSK(H) (R)YSLTYIYTGLSKHVEDVP(A)	3	(R)AGEVQEPELR(G) (R)QDPPSVVVTSHQAPGEK(K) (R)YSLTYIYTGLSK(H)	transporter	1
4	4.78E+06	Q16853	AOC3	3	(K)SPVPPGPAPPLQFYPQGPR(F)	3	(K)SPVPPGPAPPLQFYPQGPR(F)	enzyme	4

					(R)NLVTMTTAPR(G) (R)EELTAVMR(F)		(R)NLVTMTTAPR(G) (R)EELTAVMR(F)		
16	3.39E+07	P23528	CFL1	2	(K)EILVGDVGQTVDDPYATFVK(M) (R)YALYDATYETK(E)	2	(K)LGGSAVISLEGKPL(-) (R)YALYDATYETK(E)	other	1
9	2.06E+06	P16930	FAH	2	(K)SFGTTVSPWVVPMDALMPFAVPNPK(Q) (R)IGVAIGDQILDLSIIK(H)	2	(K)SFGTTVSPWVVPMDALMPFAVPNPK(Q) (R)IGVAIGDQILDLSIIK(H)	enzyme	0
19	1.60E+07	P18510	IL1RN	2	(R)LQLEAVNITDLSENR(K) (K)IDVVPIEPHALFLGIHGGK(M)	2	(R)LQLEAVNITDLSENR(K) (K)IDVVPIEPHALFLGIHGGK(M)	cytokine	2
3	9.74E+05	P30501	HLA-C	4	(K)WAAVVVPSGEEQR(Y) (R)FIAVGYVDDTQFVR(F) (K)YNRQAQTDRVNL(R) (K)WAAVVVPSGEEQRY(T)	4	(K)WAAVVVPSGEEQR(Y) (R)FIAVGYVDDTQFVR(F) (K)YNRQAQTDRVNL(R) (K)WAAVVVPSGEEQRY(T)	transmembrane receptor	4
10	1.46E+06	P00739	HPR	3	(R)TEGDGVYTLNNEK(Q) (K)LRTEGDGVYTLNNEK(Q) (R)TEGDGVYTLNDK(K)	4	(K)DIAPTLTLYVGK(K) (R)TEGDGVYTLNNEK(Q) (K)LRTEGDGVYTLNNEK(Q) (R)TEGDGVYTLNDK(K)	peptidase	1
12	2.96E+07	P01009	SERPINA1	3	(K)LQHLENELTHDIITK(F) (K)ITPNLAEFAFSLYR(Q) (K)VFSNGADLSGVTEEAPLK(L)	3	(K)GTEAAGAMFLEAIPMSIPPEVK(F) (K)SVLGQLGITK(V) (K)VFSNGADLSGVTEEAPLK(L)	other	2
16	1.14E+07	P02538	KRT6A	6	(R)ELQSQISDTSVVLSMDNSR(S) (R)GMQDLVEDFK(N) (R)NLDLDSIIAEVK(A) (R)NMQDLVEDFK(N)	6	(K)EYQELMNVK(L) (K)LALDVEIATYR(K) (K)LEAELGNMQGLVEDFK(N) (K)LVSESSDVLPK(-)	other	1

					(R)QLDSIVGER(G) (R)QNLEPLFEQYINNLR(R)		(K)NKLEGLEDALQK(A) (K)VDALmDEINFMK(M)		
6	1.07E+06	P33121	ACSL1	2	(K)ATENTVNPcPDDTLISFLPLAHMFER(V) (R)LMVTGAAPVSATVLTFLR(A)	2	(K)ATENTVNPcPDDTLISFLPLAHMFER(V) (R)LMVTGAAPVSATVLTFLR(A)	enzyme	2
12	9.24E+06	P00387	CYB5R3	2	(R)APEAWDYGQGFVNEEmIR(D) (K)SVGmIAGGTGITPmLQVIR(A)	2	(R)APEAWDYGQGFVNEEmIR(D) (K)SVGmIAGGTGITPmLQVIR(A)	enzyme	1
7	1.97E+06	Q9UIV8	SERPINB13	2	(K)NNDLSMFVLLPNDIDGLEK(I) (K)INSWVESKTNE(K)	2	(K)NNDLSMFVLLPNDIDGLEK(I) (K)INSWVESKTNE(K)	other	1
2	3.96E+06	Q14315	FLNC	3	(R)APLQVAVLGPTGVAEPVEVR(D) (R)VEESTQVGGDPFPAVFGDFLGR(E) (R)GAGTGGLGLAIEGPSEAK(M)	2	(R)VEESTQVGGDPFPAVFGDFLGR(E) (R)GAGTGGLGLAIEGPSEAK(M)	other	2
4	5.07E+06	P17858	PFKL	2	(R)GITNLcVIGGDGSLTGANLFR(K) (R)IMEVIDAITTTAQSHQR(T)	2	(K)AIGVLTSGGDAQGMNAAVR(A) (R)IMEVIDAITTTAQSHQR(T)	kinase	0
2	1.09E+05	Q9BRQ8	AIFM2	2	(R)VNEHLQVEGHSNV(Y) (K)GVQLLLSERVSNLEELPLNEYREY(I)	2	(R)VNEHLQVEGHSNV(Y) (K)GVQLLLSERVSNLEELPLNEYREY(I)	enzyme	2
8	7.43E+05	P16615	ATP2A2	4	(K)TASEMVLADDNFSTIVAAVEEGR(A) (R)VDQSILTGESVSVIK(H) (K)DIVPGDIVEIAVGDKVPADIR(L) (K)ISLPVILMDETLKF(V)	3	(K)TASEMVLADDNFSTIVAAVEEGR(A) (R)VDQSILTGESVSVIK(H) (K)DIVPGDIVEIAVGDKVPADIR(L)	transporter	2
2	2.37E+05	Q13733	ATP1A4	2	(K)QAADMILLDDNFASIVTGVEEGR(L) (K)VDNSSLTGESEPQSR(S)	2	(K)QAADMILLDDNFASIVTGVEEGR(L) (K)VDNSSLTGESEPQSR(S)	transporter	4
6	2.61E+06	P02730	SLC4A1	4	(R)ADFLEQPVLGFVR(L) (R)LQEAAELEAVELPVPIR(F) (K)GLDLNGGPDDPLQQTGQLFGGLVR(D) (R)VLLPLIFR(N)	4	(R)ADFLEQPVLGFVR(L) (R)LQEAAELEAVELPVPIR(F) (K)GLDLNGGPDDPLQQTGQLFGGLVR(D) (R)VLLPLIFR(N)	transporter	4

10	1.46E+07	P05155	SERPING1	3	(K)GVTSVSQIFHSPDLAIR(D) (R)LEDMEQALSPSVFK(A) (K)FQPTLLTLPR(I)	4	(K)GVTSVSQIFHSPDLAIR(D) (R)LEDMEQALSPSVFK(A) (K)TNLESILSYPK(D) (K)FQPTLLTLPR(I)	other	1
7	1.25E+07	P01019	AGT	2	(K)VLSALQAVQGLLVAQGR(A) (K)QPFVQGLALYTPVVLPR(S)	2	(K)VLSALQAVQGLLVAQGR(A) (K)QPFVQGLALYTPVVLPR(S)	growth factor	1
6	3.81E+06	P07585	DCN	2	(K)KASYSGVSLFSNPVQYWEIQPSTFR(C) (K)ASYSGVSLFSNPVQYWEIQPSTFR(C)	2	(K)KASYSGVSLFSNPVQYWEIQPSTFR(C) (K)ASYSGVSLFSNPVQYWEIQPSTFR(C)	other	1
7	1.04E+06	P23141	CES1	2	(K)QEFGWLIPMQLMSYPLSEGQLDQK(T) (R)ESQPLLGTVIDGMLLLK(T)	2	(K)QEFGWLIPMQLMSYPLSEGQLDQK(T) (R)ESQPLLGTVIDGMLLLK(T)	enzyme	1
24	2.54E+08	P02790	HPX	6	(K)SGAQATWTELPWPHEK(V) (K)SLGPNScSANGPGLYLIHGPNLYcYSDVEK(L) (R)EWFWDLATGTMK(E) (K)LLQDEFPGIPSPLDAAVEcHR(G) (R)GEcQAEGVLFFQGDR(E) (R)YYcFQGNQFLR(F)	7	(K)SGAQATWTELPWPHEK(V) (K)SLGPNScSANGPGLYLIHGPNLYcYSDVEK(L) (R)EWFWDLATGTMK(E) (K)LLQDEFPGIPSPLDAAVEcHR(G) (R)GEcQAEGVLFFQGDR(E) (R)YYcFQGNQFLR(F) (R)RLWWLDLK(S)	transporter	1
15	6.13E+06	P01008	SERPINC1	4	(K)EQLQDMGLVDLFSPEK(S) (R)EVPLNTIIFMGR(V) (K)AFLEVNEEGSEAAASTAVVIAGR(S) (K)NDNDNIFLSPLSISTAFAmTK(L)	4	(K)EQLQDMGLVDLFSPEK(S) (R)EVPLNTIIFMGR(V) (K)AFLEVNEEGSEAAASTAVVIAGR(S) (K)NDNDNIFLSPLSISTAFAmTK(L)	other	2
39	7.57E+06	P02766	TTR	3	(K)AADDTWEPFASGK(T) (R)GSPAINVAVHVFR(K) (R)KAADDTWEPFASGK(T)	3	(K)TSESGELHGLTTEEEFVEGIYK(V) (R)GSPAINVAVHVFR(K) (R)KAADDTWEPFASGK(T)	transporter	1

6	5.72E+05	P00505	GOT2	2	(K)ASAELALGENSEVLK(S) (K)TcGFDFTGAVEDISK(I)	2	(K)ASAELALGENSEVLK(S) (K)TcGFDFTGAVEDISK(I)	enzyme	2
6	1.63E+07	P00918	CA2	3	(K)AVQQPDGLAVLGIFLK(V) (K)GGPLDGTYRLIQFHFHWGS (R)LIQFHFHWGSLDGQGSEHTVDKKKY(A)	2	(K)GGPLDGTYRLIQFHFHWGS (R)LIQFHFHWGSLDGQGSEHTVDKKKY(A)	enzyme	0
9	9.98E+06	P02689	PMP2	2	(K)LVSSENFDDYMK(E) (K)SIVTLQRGSLNQVQRWDG(K) (R)KLGNLAKPTVIISKKGDII(T)	2	(K)LVSSENFDDYMK(E) (K)SIVTLQRGSLNQVQRWDG(K)	other	0
4	1.66E+07	P17655	CAPN2	2	(R)NYPNTFWMNPQYLIK(L) (R)LEIcNLTPDTLTSDTYK(K)	3	(R)NYPNTFWMNPQYLIK(L) (R)LEIcNLTPDTLTSDTYK(K) (K)LIRIRNPWGEVEW(T)	peptidase	2
23	2.01E+06	P22392	NME2	2	(K)FMQASEDLLK(E) (R)TFIAIKPDGVQR(G)	2	(K)FMQASEDLLK(E) (R)VMLGETNPADSKPGTIR(G)	kinase	0
28	1.72E+07	P00568	AK1	3	(K)ATEPVIAFYEK(R) (K)GQLVPLETVLDMLR(D) (K)IIFVVGGPGSGK(G)	3	(K)ATEPVIAFYEK(R) (R)IGQPTLLLYVDAGPETMTQR(L) (K)VNAEGSVDSVFSQVcTHLDALK(-)	kinase	0
14	2.86E+05	P61225	RAP2B	2	(K)EIEVDSSPSVLEILDTAGTEQFASMR(D) (R)KEIEVDSSPSVLEILDTAGTEQFASMR(D)	2	(K)EIEVDSSPSVLEILDTAGTEQFASMR(D) (R)KEIEVDSSPSVLEILDTAGTEQFASMR(D)	enzyme	2
2	5.00E+06	Q5JPE7	NOMO2	2	(K)SSIDSEPALVLGPLK(S) (R)DGENYVVLLDSTLPR(S)	0		other	3