

Supplementary Table 1: Lists of phospho-peptides. 3 datasets were sourced to identify primary phosphor-peptides, with their respective up- or down-regulation values, provided here.

Table 1									
Protein Name	Modified sequence	Down Rapamycin		Down Torin		Up Rapamycin		UP Torin	
		Control _Rapam ycine	Patient_ Rapam ycine	Cont rol_T orin	Patie nt_T orin	Control _Rapam ycine	Patient_ Rapam ycine	Cont rol_T orin	Patie nt_T orin
AAK1	_ILS(ph)DVTHSAVFGV PASK_		1.45	0.87	0.13				
AAK2	_VQTT(ph)PPPAVQGG K_					0.98	0.92		
ABCC1	_HHNS(ph)TAELQK_				0.19				
ABCF1	_GGNVFAALIQDQS(ph))EEEEEEEK_								1.85
ABCF1	_KAEQGS(ph)EEEGEG EEEEEEGGESK_							1.26	2.67
ABCF1	_KLS(ph)VPT(ph)S(ph) DEEDEVPAPK_	1.05				1.96			
ABCF1	_LSVPT(ph)S(ph)DEED EVPAPK_			2.00					
ABCF1	_LSVPT(ph)SDEEDEVP APK_						0.92		1.74
ABLIM1	_TLS(ph)PTPSAEGYQD VR_	1.72					0.75	1.80	
ACACA	_FIIGSVS(ph)EDNS(ph) EDEISNLVK_	1.06				1.00		1.80	
ACACA	_FIIGSVSEDNS(ph)ED EISNLVK_		1.47					1.42	
ACER2	_LGLFSGLWWT(ph)LA				1.74				

	LFCWIS(ph)DR_						
ACIN1	_TAQVPS(ph)PPR_			0.80		0.84	
ACLY	_PAM(ox)PQDSVPS(ph) PR_		0.51				
ACLY	_PAMPQDSVPS(ph)PR_					0.75	
ACLY	_TAS(ph)FSESR_	1.19					
ADCY6	_DAEPPS(ph)PTPAGPP R_					0.71	
ADD1	_AAVVTS(ph)PPPTTAP HK_						3.70
ADD1	_SPGS(ph)PVGEGTGSP PK_	1.58		0.76	0.75		0.95
AFAP1	_EAYSGCSGPVDSECP PPPS(ph)SPVHK_					0.98	
AFAP1	_EAYSGCSGPVDSECP PPPSS(ph)PVHK_			0.77	0.22		0.74
AFAP1	_SGTSSPQS(ph)PVFR_					0.85	
AGFG1	_GTPSQS(ph)PVVGR_			0.64	0.57		
AHNAK	_AS(ph)LGS(ph)LEGEA EAEASS(ph)PK_			0.96			1.04
AHNAK	_AS(ph)LGS(ph)LEGEA EAEASSPK_	1.00	2.16			0.85	
AHNAK	_ASLGS(ph)LEGEAEA EAS(ph)SPK_	1.49					
AHNAK	_ASLGS(ph)LEGEAEA EASS(ph)PK_						1.25
AHNAK	_ASLGSLEGEAEAEAS (ph)SPK_						1.03

AHNAK	_ASLGSLEGEAEAEAS S(ph)PK_	1.65	1.02		
AHNAK	_DIDISS(ph)PEFK_	1.59		0.25	
AHNAK	_EFSGPS(ph)TPTGTLE FEGGEVSLEGGK_	1.22			
AHNAK	_EFSGPST(ph)PTGTLE FEGGEVSLEGGK_				0.95
AHNAK	_GGVTGS(ph)PEASISG SK_	1.15	1.02	0.12	1.06
AHNAK	_GHYEVT(ph)GSDDDET GK_			0.97	
AHNAK	_GHYEVTGS(ph)DDET GK_				0.98
AHNAK	_GPSLDIDT(ph)PDVNI EGPEGK_	1.20			0.97
AHNAK	_IS(ph)MSEVDLNVA A PK_			0.68	0.99
AHNAK	_ISMS(ph)EVDLNVA A PK_				0.93
AHNAK	_LKS(ph)EDGVEGDLG ETQSR_			0.25	
AHNAK	_LPS(ph)GSGAAS(ph)P TGSAVDIR_				3.46
AHNAK	_LPS(ph)GSGAASPT(ph))GSAVDIR_	1.29	1.06		
AHNAK	_LPS(ph)GSGAASPTGS AVDIR_	1.30	1.05		
AHNAK	_LPSGS(ph)GAAS(ph)P TGSAVDIR_			0.53	

AHNAK	_LPSGSGAAS(ph)PTGS AVDIR_	1.17			0.97
AHNAK	_MPFLS(ph)ISSPK_				2.29
AHNAK	_VDIDT(ph)PDIDIHGP EGK_	1.47		0.11	0.90
AHNAK	_VDIDT(ph)PDINIEGSE GK_		1.03		
AHNAK	_VKT(ph)PEMIIQK_		1.09		1.20
AKAP12	_GLAEVQQDGEAEEG ATS(ph)DGEK_	2.08			
AKAP12	_LTASEQAHPQEPAES AHEPRLS(ph)AEYEK_			0.23	
AKAP12	_SPPS(ph)PVER_	2.04		0.14	1.29
AKAP12	_VELPS(ph)EEQVSGSQ GPSEEK_		0.88	0.24	
AKAP13	_S(ph)AVLLVDETATT PIFANR_				1.09
AKAP2	_DALGDSLQVPVS(ph) PSSTTSSR_				0.89
AKAP2	_DALGDSLQVPVSPSS T(ph)TSSR_	1.07			
AKAP2	_PQSMFEPPQVS(ph)SP VQEK_	1.19		0.86	1.72
AKAP2	_TLS(ph)MIEEEIR_	1.70			
AKT2	_YFDDEFTAQSITIT(ph))PPDR_	1.32	1.17	0.98	
AMOT	_DTTVISHS(ph)PNTSY DTALEAR_				17.77
ANTXR1	_EVPPPPAEES(ph)EEE	1.18			0.87

	DDDGLPK_				
ANXA2	_LS(ph)LEGDHSTPPSA YGSVK_	2.16	1.39		3.45
AP001925.1	_DIS(ph)PLS(ph)DEYIS PQDK_				1.60
AP1G2	_DDAVANLTQLIGGA QELHAY(ph)S(ph)VR_			1.85	
AP3B1	_NFYES(ph)DDDQK_			0.92	1.17
AP3D1	_KAEDLDFWLSTT(ph) PPPAPAPAPAPVPSTD ECEDAK_			0.81	
APAF1	_S(ph)LLILDDVWDS(p h)WVLK_				1.94
APC	_S(ph)KTPPPPPQTAQT K_			0.79	
API5	_AS(ph)EDTTSGSPPKK —		1.02		
API5	_ASEDTTSGS(ph)PPKK —				6.94
APOB	_T(ph)SS(ph)FALNLPT(ph)LPEVK_			0.82	
ARHGAP1	_SSS(ph)PELVTHLK_	1.44	1.09	0.20	1.34
ARHGAP1 7	_AESSSGGGTVPSSAGI LEQGSPGDGS(ph)PP KPK_			0.76	1.03
ARHGAP1 7	_SPSPPTQHT(ph)GQPP GQPSAPSQLSAPR_				0.73
ARHGAP2 9	_EPPS(ph)PSETGPNSL GTFK_		1.27		

ARHGAP2 9	_EPPSPS(ph)ETGPNSL GTFK_					1.73
ARHGAP2 9	_PLLS(ph)PEER_	1.92				1.89
ARHGAP3 5	_IPT(ph)Y(ph)NIS(ph)V VGLSGTEK_				2.99	
ARHGEF1 7	_LADILS(ph)PR_	1.27				
ARHGEF1 7	_S(ph)LSNPDIASETLT LLSFLR_	2.09				
ARHGEF2	_QELGS(ph)PEER_				0.96	
ARHGEF2	_S(ph)LPAGDALYLSF NPPQPSR_	1.12	0.64	0.94	0.86	
ARHGEF2	_SES(ph)LESPR_	1.02		0.97		
ARHGEF2	_SVS(ph)TTNIAGHFND ESPLGLR_			0.04		
ARHGEF4 0	_GSPTDAEGS(ph)PGLS R_					1.64
ARID1A	_GPS(ph)PSPVGSPASV AQSR_		0.77		0.80	0.94
ARID1A	_VS(ph)SPAPMEGGEE EEELLGPK_					0.96
ARID1A	_VSS(ph)PAPMEGGEE EEELLGPK_			0.59		
ARL6IP4	_S(ph)AGEEEDGPVLT DEQK_				0.62	
ARPP19	_KPS(ph)LVASK_		0.63			
ASAP2	_LLHEDLDES(ph)DDD MDEK_					1.17

ASUN	_DSPDS(ph)PEPPNK_	0.81			
ATF7IP	_HEHPPNPPVS(ph)PGK_	2.36			
ATP11C	_DTIALCTAES(ph)IDT(ph)LR_	0.60			
ATXN2L	_EVDGLLTSEPMGS(ph)PVSSK_	1.11	0.98	3.13	
ATXN2L	_GPPQS(ph)PVFEGVYNNSR_	1.98			
B4GALT1	_LPQLVGVSTPLQGGSNSAAAIGQSS(ph)GELR_	1.07			
BAG3	_VPPAPVPCPPPS(ph)PGPSAVPSSPK_	1.26			
BAG3	_VPPAPVPCPPPSGPS(ph)AVPSSPK_	0.58			
BAG3	_VPPAPVPCPPPSGPSAVPS(ph)SPK_	1.26			
BAG3	_VPPAPVPCPPPSGPSAVPSS(ph)PK_	1.19			
BAG6	_ENAS(ph)PAPGTTAE EAM(ox)SR_	1.01			
BAG6	_ENAS(ph)PAPGTTAE EAMSR_	0.91	0.98	1.10	
BAZ1B	_LAEDEGDS(ph)EPEAVGQSR_	0.92			
BCAR1	_PLPS(ph)PPK_	1.14	0.85	1.15	
BCLAF1	_AEGEWEDQEALDYFS(ph)DK_	0.86	0.87	0.95	1.73

BCLAF1	_DLFDYS(ph)PPLHK_		0.82		0.83		1.60
BCLAF1	_FNDS(ph)EGDDTEET EDYR_		0.92		0.89		
BCLAF1	_IDIS(ph)PSTLR_		0.89		0.99	0.98	4.43
BCLAF1	_KAEGEPQEES(ph)PL K_		0.92		0.86	0.74	4.51
BCLAF1	_SSATSGDIWPGLSAY DNS(ph)PR_		0.75				
BCLAF1	_Y(ph)SPSQNS(ph)PIH HIPSR_				1.81		
BCLAF1	_YS(ph)PSQNS(ph)PIH HIPSR_					1.69	4.16
BET1L	_AQS(ph)PGAVEEILDR _						1.07
BICC1	_LLS(ph)DPELSATESP LADK_				0.59		
BICC1	_S(ph)PSHSGNAGDLK _	1.14	0.92				
BIN1	_S(ph)PSPPDGSPAATP EIR_		1.17		0.97	0.76	
BIN1	_SPSPPDGS(ph)PAATP EIR_				0.79		
BMS1	_LGPQNFIDEETS(ph)DI ENLLK_	1.09					
BNIP2	_KGS(ph)ITEYTAAEEK _		0.90				
BOP1	_IGDEYAEDS(ph)S(ph) DEEDIR_				1.88		
BRD4	_PQQVIQHHHS(ph)PR_						2.92

BUD13	_HDT(ph)PDPS(ph)PLR —	2.06				
BYSL	_MPQDGS(ph)DDEDEE WPTLEK_	1.10				
C11orf58	_S(ph)ASPDDDLGSSN WEAADLGNEER_	2.04	1.89	1.78		
C17orf49	_VYEDSGIPLPAES(ph) PKK_					8.40
C1orf198	_LPS(ph)PDVR_	1.92			0.90	1.85
C1orf52	_LLPEGEETLES(ph)DD EK_		0.85	0.90		
C9orf142	_LAAAEETA VS(ph)PR —					2.57
CAD	_IHRAS(ph)DPGLPAEE PK_					1.43
CALD1	_RGS(ph)IGENQGEEK_		0.78		0.83	
CALD1	_RGS(ph)IGENQIK_	1.10	0.71		0.94	
CALD1	_VTS(ph)PTKV_	1.67		0.12	0.91	1.26
CANX	_AEDEILNRS(ph)PR_	1.18	1.22	0.42		1.17
CANX	_QKS(ph)DAEEDGGTV SQEEEDR_			0.98		
CANX	_QKSDAEEDGGT(ph)V SQEEEDR_					1.22
CANX	_SDAEEDGGTVS(ph)Q EEEDR_	1.15				
CAP1	_PFSAPKPQTS(ph)PSP K_	1.34	1.03	0.39		1.43
CAP2	_SHTPSPT(ph)SPK_				0.62	1.09

CARHSP1	_GNVVPS(ph)PLPTR_				1.02
CASC3	_DPS(ph)PEADAPVLG SPEK_	1.17			
CAV2	_ADVQLFM(ox)DDDS(ph)YSHHS(ph)GLEYAD PEK_			0.80	
CAV2	_ADVQLFMDDDS(ph) Y(ph)SHHS(ph)GLEYA DPEK_	3.44			
CAV2	_ADVQLFMDDDS(ph) YS(ph)HHSGLEYADPE K_	2.02			
CAV2	_ADVQLFMDDDSYS(p h)HHS(ph)GLEYADPE K_			0.12	
CCDC43	_AALLAQYADVT(ph) DEEDEADEK_	1.13	1.04		2.05
CCDC6	_PIS(ph)PGLSYASHTV GFTPPTSLTR_	1.00			
CCDC6	_TVSS(ph)PIPYTPSPSS SR_	1.23			
CCDC86	_ALVEFESNPEETREP GS(ph)PPSVQR_			0.89	
CCDC86	_LGGLRPES(ph)PESLT SVSR_	1.06		0.91	1.04 4.07
CCDC86	_LQQGAGLESPQGQPE PGAAS(ph)PQR_		0.88		1.71
CCNK	_AVVVS(ph)PKEENK_			0.84	3.27
CCNY	_SAS(ph)ADNLTLPTR_				1.28
CCNYL1	_SFS(ph)ADNFIGIQR_		0.80	0.41	0.88

CD44	_S(ph)QEMVHLVNK_	1.40	1.17			1.41
CDC42BPB	_HSTPSNSSNPS(ph)GP PS(ph)PNSPHR_					2.18
CDC42BPB	_HSTPSNSSNPSGPPS(p h)PNSPHR_				0.36	
CDC42EP1	_NAIS(ph)LPQLNQAA YDSL VVGK_	1.08	1.00	0.68	0.20	
CDC42EP1	_RSDS(ph)LLSFR_				0.13	
CDC42EP3	_ANS(ph)TSDSVFTETP SPVLK_					1.16
CDC45	_FLASDVVFATM(ox)S LMES(ph)PEK_				0.52	
CDH11	_PGLRPAPNS(ph)VDV DDFINTR_		1.01	0.96	0.60	
CDK11A	_DLLSDLQDIS(ph)DSE R_		1.10			1.04
CDK12	_GS(ph)PVFLPR_					2.13
CDK12	_HLLTDLPLPELPGG DLS(ph)PPDS(ph)PEPK —	2.18				
CDK12	_NS(ph)SPAPPQPAPGK —				0.80	
CDK12	_NSS(ph)PAPPQPAPGK —			0.84	0.82	2.28
CDK16	_RLS(ph)LPADIR_		6.18	0.61		
CDK16	_RVS(ph)LSEIGFGK_					1.99
CDK2	_IGEGTY(ph)GVVYK_				0.60	
CDS2	_VAHEPVAPPEDKES(p h)ESEAK_				0.90	

CEBPZ	_SQLDDHPES(ph)DDE ENFIDANDDEDMEK_		0.93		
CEP170	_LGEAS(ph)DSELADA DK_			1.45	
CEP170	_S(ph)ESLDPDSSMDTT LILK_			1.10	
CHCHD3	_YS(ph)GAYGASVSDE ELK_		0.93		
CHD3	_METEADAPS(ph)PAP SLGER_		0.89		
CHD4	_KMS(ph)QPGS(ph)PSP K_		1.06	2.44	
CHGB	_LGELFNPY(ph)YDPL QWK_		1.77		
CHMP3	_VTDALPEPEPPGAMA AS(ph)EDEEEEEEEALE AMQSR_			1.45	
CLASP1	_NSSNTSVGS(ph)PSNT IGR_	1.13		1.18	
CLASP1	_SRS(ph)DIDVNAAAS AK_	1.32			
CLASP2	_SRS(ph)DIDVNAAAG AK_			1.21	1.14
CLNS1A	_EPVADEEEEDS(ph)D DDVEPITEFR_		0.92	0.76	0.87
CLNS1A	_FEEESKEPVADEEEEE DS(ph)DDDVEPITEFR_				3.13
CLSPN	_NFVFHTLS(ph)PVK_				2.24
CLTA	_LQS(ph)EPESIR_			1.67	

CNTFR	_Y(ph)M(ox)HLFS(ph)T (ph)IK_			1.76	
COPB2	_PAS(ph)PTPVIVASHT ANK_		0.94	0.88	
COPB2	_STAQQELDGGKAS(ph))PTPVIVASHTANK_	1.13		0.62	
CREBBP	_PQSQPPHSSPS(ph)PR —			0.80	
CSNK1E	_IQPAGNT(ph)SPR_	1.03			
CTAGE5	_AFLS(ph)PPTLLEGPL R_			0.95	
CTGF	_DQT(ph)VVGPALAAY (ph)R_				1.36
CTIF	_LEDTAGDTGHSSLEA PRS(ph)PDTLAPVASE R_			0.86	
CTNNA1	_TPEELDDS(ph)DFETE DFDVR_	1.07		0.78	1.01
CTNNB1	_RLS(ph)VELTSSLFR_	1.07			
CTNNB1	_RTS(ph)MGGTQQQFV EGVR_			0.40	
CTNND1	_GSLAS(ph)LDSLRL_	1.21		0.52	1.14
CTNND1	_S(ph)MGYDDLDDYGM MSDYGTAR_	1.09	1.07		
CTNND1	_VGGS(ph)SVDLHR_			0.14	1.07
CTNND1	_VGGSS(ph)VDLHR_	2.35			
CTPS1	_SGSSS(ph)PDSEITELK —	1.29			
CTR9	_GGEFDEFVNDDT(ph)			0.96	1.09

	DDDLPISK_								
CTTN	_LPS(ph)SPVYEDAASF K_			0.48					
CTTN	_LPSS(ph)PVYEDAASF K_	1.70	1.02						
CTTN	_T(ph)QTPPVS(ph)PAP QPTEER_			0.77	0.84	1.17			
CTTN	_TQT(ph)PPVS(ph)PAP QPTEER_	1.28							
CTTN	_TQT(ph)PPVSPAPQPT EER_	1.14		0.31		1.16			
DAAM2	_ELGS(ph)TEDIYLASR —			0.92					
DAB2	_SSPNPFVGS(ph)PPK_	1.94							
DAB2IP	_LPS(ph)PTPENK_		1.46						
DAXX	_ICTLPSPPS(ph)PLASL APVADSSTR_			0.86					
DBN1	_LSS(ph)PVLHR_	1.34	1.02			1.26			
DBN1	_S(ph)PSDSSTASTPVA EQIER_					1.03			
DDB2	_SRS(ph)PLELEPEAK_			0.89	0.22	0.92			
DDX21	_NEEPS(ph)EEEIDAPK PK_			0.78	0.94	0.86		19.57	
DDX24	_AQAVS(ph)EEEEEEE GK_							2.64	
DDX54	_GS(ph)DS(ph)EDGEFE IQAEDDAR_			1.94					
DDX54	_IDDRDS(ph)DEEGAS DR_		1.11					1.90	

DDX54	_PLPTFPT(ph)SECTSD VEPDTR_	0.98	0.86	
DEK	_EES(ph)EEEEDEDDEE EEEEEEK_		0.92	
DENND2A	_TLS(ph)EENVYEDILD PPMK_		0.70	
DHX16	_LLEDSEES(ph)S(ph)E ETVSR_		1.88	
DHX57	_DLQEQDADAGS(ph)E R_		0.85	
DKC1	_AGLESGAEPGDGDS(ph)DTTK_		0.89	
DKC1	_AGLESGAEPGDGDS DT(ph)TK_	1.05		
DKC1	_RES(ph)ES(ph)ES(ph)D ETPPAAPQLIK_		2.86	
DNAJC1	_DFDIAEQNES(ph)S(ph))DEESLRK_		1.93	
DNAJC2	_ELS(ph)EES(ph)EDEE LQLEEFPMMLK_		1.71	
DNAJC28	_VLS(ph)HVIEQT(ph)N ASQS(ph)K_	2.04		
DNAJC5	_SLS(ph)TSGESLYHVL GLDK_	1.06	0.29	
DOCK5	_LYQEHS(ph)YFDKGK -		0.14	
DOCK7	_SLSNS(ph)NPDISGTP TSPDDEVR_		0.65	0.81 1.04
DPYSL3	_GM(ox)YDGPVFDLTT T(ph)PK_		0.94	

DUT	_PCSEET(ph)PAISPSK_	1.38			
DYNC1LI1	_DFQEYVEPGEDFPAS (ph)PQR_				1.20
DYNC1LI1	_KPVTVS(ph)PTTPTSP TEGEAS_		0.22		
DYNC1LI1	_KPVTVSPTTPTS(ph)P TEGEAS_		0.56		
DYNC1LI2	_DFQDYMEPEEGCQG S(ph)PQR_		0.95		
EBAG9	_KLS(ph)GDQITLPTTV DYSSVPK_		0.86		
EDC4	_DSQDASAEQSDHDD EVAS(ph)LASASGGFG TK_		0.79	0.90	
EDC4	_GPGQVPTATSALSLE LQEVEPLGLPQAS(ph) PSR_		1.86		
EDC4	_T(ph)RSPDVISSASTA LSQDIPEIASEALSR_				2.00
EEF1B2	_DDDDIDLFGS(ph)DD EEESEEA_			0.93	1.51
EEF1B2	_DDDDIDLFGS(ph)DD EEESEEA_	1.09			1.06
EEF1D	_ATAPQTQHVS(ph)PM (ox)R_	1.49			
EEF1D	_ATAPQTQHVS(ph)PM R_		0.98	0.85	4.95
EEF1D	_KPAT(ph)PAEDDEDD DIDLFGS(ph)DNEEED K_	1.17	0.90	1.74	0.76

EEF1D	_KPATPAEDDEDDID					2.03
	LFGS(ph)DNEEEDK_					
EHBP1	_DLSTS(ph)PKPS(ph)PI	5.46				
	PS(ph)PVLGR_					
EHBP1L1	_PSDVGNLDDFAES(ph	1.02	0.85		0.92	
)DEDEAHGPGAPEAR_					
EHD1	_PM(ox)VLLVGQYS(ph				1.91	
)T(ph)GK_					
EHD2	_GPDEAM(ox)EDGEEG	1.07				
	S(ph)DDEAEWVVTK_					
EHD2	_GPDEAMEDGEEGS(p				0.91	1.01
	h)DDEAEWVVTK_					
EI24	_FPS(ph)PHPSPAK_					3.00
EIF2A	_S(ph)DKSPDLAPTPAP				1.71	
	QSTPR_					
EIF2A	_SDKS(ph)PDLAPTPAP			0.81	1.05	1.25
	QSTPR_					
EIF2S2	_IESDVQEPT(ph)EPED	1.04				
	DLDIMLGNK_					
EIF3C	_NEEDS(ph)EGS(ph)S(p			2.80		
	h)DEDEDEDGVSAATF					
	LK_					
EIF3C	_QNPEQS(ph)ADEDAE	1.07	1.14		1.02	1.39
	K_					
EIF3C	_QPLLLS(ph)EDEEDTK		1.09	0.94		1.17
	—					
EIF3G	_GIPLATGDT(ph)SPEP			0.89		
	ELLPGAPLPPPK_					
EIF3G	_GIPLATGDTS(ph)PEP		0.88	0.91	0.62	
	ELLPGAPLPPPK_					

EIF4G1	_EAALPPVS(ph)PLK_				1.61
EIF4G1	_ETGEPYRLS(ph)PEPT PLAEPILEVEVTLSK_	1.09			
EIF4G2	_TQT(ph)PPLGQTPQL GLK_			1.00	
EIF4G3	_RS(ph)PVPAQIAITVP K_	1.02			1.49
EIF5	_EAEEES(ph)S(ph)GGE EEDEDENIEVVYSK_		1.65		
EIF5B	_KWDGS(ph)EEDEDNS K_			1.18	2.54
EIF5B	_NKPGPNIES(ph)GNED DDASFK_		0.96		4.02
EIF5B	_PGPNIES(ph)GNEDDD ASFK_	0.97		0.91	
EIF5B	_QSFDDNDS(ph)EELE DK_		0.94		1.13
EIF5B	_VEMYS(ph)GS(ph)DD DDDFNK_		1.92		
EML4	_ASPS(ph)PQPSSQPLQI HR_	0.87	0.65	0.96	
EMR3	_DQVY(ph)LNSQVVS(ph)AAIGPK_	1.68			
ENAH	_PS(ph)SPVNTTPSSQPP ATK_		0.69	0.74	
ENAH	_S(ph)PVISRPK_		0.96	0.91	
EPRS	_EYIPGQPPLSQS(ph)S DSSPTR_		0.86		
EPRS	_EYIPGQPPLSQSSDS(p	1.02			

	h)S(ph)PTR_						
EPRS	_EYIPGQPPLSQSSDSS(ph)PTR_	0.90					
EPS15L1	_TVFPGAVPVLPAS(ph)PPPK_	0.87					
EPS8	_PADTPPAPSPPPT(ph)PAPVPVPLPPSTPAPVPVSK_	0.94					
ERRFI1	_SHS(ph)GPAGSFNK_	0.77		0.65			
ESYT2	_EPTPS(ph)IASDIS(ph)LPIATQELR_	2.85					
ESYT2	_EPTPSIAS(ph)DISLPIATQELR_	1.21	1.20	0.38			
ETV6	_ISYT(ph)PPES(ph)PVP SYASSTPLHVPVPR_	0.69		1.67			
ETV6	_RLS(ph)PAER_	0.25		0.82			
EXOC1	_FGLHGS(ph)SGK_	1.32					
FAM129A	_RAS(ph)AILPGVLGSE TLSNEVFQESEEEK_	0.90					
FAM129B	_AAPEAS(ph)SPPAS(ph)PLQHLLPGK_	0.71		1.86		3.41	
FAM129B	_AAPEASS(ph)PPAS(ph)PLQHLLPGK_	3.48					
FAM134C	_AMDNHS(ph)DS(ph)EEELAAFCPQLDDSTVAR_	1.95					
FAM219A	_PLVALDT(ph)DS(ph)DDFDMSR_	2.48					
FAM21B	_ASALLFS(ph)S(ph)DEEDQWNIPASQTHLAS	2.32					

	DSR_				
FAM21B	_SPMFPALGEASS(ph) DDDLFQSAK_		0.78		
FAM21C	_GLFS(ph)DEEDSEDLF SSQSASNLK_	1.51			
FAM21D	_SPMFPALGEASS(ph) DDDLFQSAK_		0.92		0.95
FAM65A	_FSTYS(ph)QSPDTPS LR_		1.45		
FAM65A	_FSTYSQS(ph)PPDTPS LR_	1.52			1.24
FARP1	_SPDEATAADQES(ph) EDDLSASR_			0.99	
FARP1	_VSAGEPGSHPS(ph)PA PR_	1.41		0.98	1.39
FASN	_ADEASELACPT(ph)P K_		1.27		
FERMT2	_EVDEVDAALS(ph)DL EITLEGGK_		1.18		0.65
FERMT2	_KLDDQS(ph)EDEALE LEGPLITPGSGSIYSSP GLYSK_		0.69	0.47	
FILIP1L	_T(ph)MSPIQVLAVTG SASSPEQGR_		1.11		
FKBP15	_RPSQEQS(ph)ASASSG QPQAPLNR_	1.03	1.09		
FLNA	_APS(ph)VANVGSHCD LSLK_	1.16	1.17		
FLNA	_CSGPGLS(ph)PGMVR —		0.87	0.32	

FLNA	_IPEISIQDM(ox)TAQV TS(ph)PSGK_	1.88				
FLNA	_IPEISIQDMTAQVT(ph)SPSGK_	1.68				
FLNA	_IPEISIQDMTAQVTS(p h)PSGK_	1.05		0.12		1.13
FLNA	_RAPs(ph)VANVGSHC DLSLK_			0.61		
FLNB	_LVS(ph)PGSANETSSI LVESVTR_	1.13	6.05	0.76		
FLNC	_LGS(ph)FGSITR_	1.13		0.49	0.16	0.62
FLT1	_QILT(ph)CTAYGIPQP T(ph)IK_				0.35	
FOXK1	_EGS(ph)PIPHDPEFGS K_					0.80
FOXK2	_EGS(ph)PAPLEPEPGA AQPK_			0.79	0.93	0.89 1.43
FOXL2	_EPEGPPPS(ph)PGK_				0.84	
FRMD4A	_AAGALGSASSGS(ph) MPNLAAR_			0.87		
FRMD6	_HSLS(ph)LDDIR_			0.87		
FSIP2	_LDNEISQMEPS(ph)SI S(ph)ILK_				1.40	
FYTTD1	_LVGATAT(ph)SSPPPK _					0.86
G3BP1	_SSS(ph)PAPADIAQTV QEDLR_		1.07			
G3BP1	_YQDEVFGGFVTEPQE ES(ph)EEEEVEEPEER_				0.85	

G3BP2	_STT(ph)PPPAEPVSLP QEPPK_	1.19				
G3BP2	_STT(ph)PPPAEPVSLP QEPPKPR_		0.95		0.71	
GBF1	_AASSSSPGS(ph)PVAS SPSR_	1.22				
GBF1	_ADAPDAGAQs(ph)DS ELPSYHQNDVSLDR_		0.91	0.81	0.70	0.89
GFPT1	_VDS(ph)TTCLFPVEEK _	1.24				
GIGYF2	_ALSSGGSITS(ph)PPLS PALPK_					1.37
GIGYF2	_WRPHS(ph)PDGPR_					1.02
GOLGA4	_EENPES(ph)DGEPVV EDGTSVK_		0.74		0.82	
GOLGA4	_VPS(ph)VESLFR_	1.03			0.77	
GOLGB1	_SLLNQs(ph)LSSSCE SLK_	1.00				
GPATCH8	_GPKPEPPGS(ph)GSPA PPR_	1.18	1.38	0.83		1.52
GPN1	_GTLDEEDEEADS(ph) DTDDIDHR_				0.95	
GSK3A	_GEPNVS(ph)YICSR_			0.77		
GTF2F1	_GNS(ph)RPGT(ph)PSA EGGSTSSTLR_				1.68	
HDAC1	_IACEEEFS(ph)DS(ph)E EEGEGGR_				1.66	
HDAC2	_IACDEEFS(ph)DS(ph) EDEGEGGR_	2.05				

HDAC7	_AQS(ph)SPAAPASLSA PEPASQAR_	1.08					
HDGF	_AGDLEDS(ph)PK_		0.91				1.01
HDLBP	_VATLNS(ph)EEESDPP TYK_			0.86			
HEATR6	_APAGPSLEETSVSS(p h)PK_				0.98	1.06	
HMGA1	_KQPPVS(ph)PGTALV GSQK_						6.43
HMGA2	_KPAQEETEETS(ph)SQ ES(ph)AEED_			1.35			
HMGA2	_QQQEPTGEPS(ph)PK_				0.89		4.88
HMGN1	_TEESPAS(ph)DEAGE K_					1.03	1.54
HN1	_RNS(ph)SEASSGDFLD LK_	1.12	0.87		0.95		2.72
HNRNPA1	_LFIGGLS(ph)FETTDE SLR_	1.29	1.19		0.25		1.98
HNRNPA1	_SES(ph)PKEPEQLR_			0.85	0.68	0.74	1.40
HNRNPA2 B1	_LFIGGLS(ph)FETTEES LR_		1.26				2.19
HNRNPA3	_LFIGGLS(ph)FETTDD SLR_	1.30	1.16				2.17
HNRNPC	_EAEEGEDDRDS(ph)A NGEDDS_					0.92	
HNRNPC	_M(ox)ESEGGADDS(ph)AEEGDLLDDDDNED RGDDQLELIK_			0.89			
HNRNPC	_MES(ph)EGGADDS(ph)AEEGDLLDDDDNED				1.87	1.90	

	RGDDQLELIK_					
HNRNPC	_MES(ph)EGGADDSAE EGDLLDDDDNEDR_	0.82				
HNRNPC	_MESEGGADDS(ph)AE EGDLLDDDDNEDRGD DQLELIK_					2.95
HNRNPC	_NDKS(ph)EEEQSSSSV K_		0.79	0.93		
HNRNPH1	_HTGPNS(ph)PDTAND GFVR_					4.36
HNRNPU	_AKS(ph)PQPPVEEEDE HFDDTVVCLDTYNCD LHFK_					3.81
HP1BP3	_TVNSTRET(ph)PPK_	1.25				
HS1BP3	_GEDAEES(ph)LEEEE ALDPLGIMR_					2.01
HSP90AA1	_DKEVS(ph)DDEAEEK —	1.02			1.43	5.47
HSP90AA1	_ESEDKPEIEDVGS(ph) DEEEEK_	1.13	1.14		1.18	6.00
HSP90AB1	_EIS(ph)DDEAEEK_		1.08	0.96	0.98	1.54
HSP90AB1	_IEDVGS(ph)DEEDDS GK_		1.10	0.95	1.00	1.47
HSPB1	_GPS(ph)WDPFR_					2.54
HSPB1	_QLS(ph)SGVSEIR_	1.90				
HTATSF1	_VLDEEGS(ph)ER_			0.84	0.71	1.16
HUWE1	_GSGTAS(ph)DDEFEN LR_			0.92		1.11
IFI16	_VSEEQTQPPS(ph)PAG		0.89	0.74		

	AGMSTAMGR_				
IGF2BP1	_QGS(ph)PVAAGAPAK		0.97	0.78	7.92
	—				
IGF2BP2	_ISYIPDEEVSS(ph)PSP	1.39	0.67	0.60	
	PQR_				
IGF2BP2	_ISYIPDEEVSSPS(ph)P	2.10	0.88	0.93	
	PQR_				
IGF2R	_ALSSLHGDDQDS(ph)	1.04	0.86	0.30	0.72
	EDEVLTIPVK_				
ILF3	_GEDS(ph)AEETEAKP				1.40
	AVVAPAPVVEAVSTP				
	SAAFPSDATAENVK_				
INF2	_GARPPAAGPGGDED				1.38
	EDEEDTAPESALDTS(p				
	h)LDK_				
INPPL1	_DAS(ph)DGEDEKPPL		0.65		
	PPR_				
IRF2BP1	_KAS(ph)PEPEGEAAG				2.61
	K_				
IRF2BP2	_KPS(ph)PEPEGEVGPP				9.37
	K_				
IRS2	_PVSVAGSPLS(ph)PGP				3.01
	VR_				
ITGA5	_LLESSLSSSS(ph)EGEE		0.45		
	PVEYK_				
IWS1	_HQAS(ph)DS(ph)ENEE			1.65	
	LPK_				
JPH2	_ETPRPEGGSPS(ph)PA				1.36
	GT(ph)PPQPK_				
KANK2	_ALAMPGRPES(ph)PP	1.03			

	VFR_				
KHDRBS1	_S(ph)GSM(ox)DP HPSVR_	2.87			
KHDRBS1	_SGS(ph)MDPSGAHPS VR_				1.71
KIAA1033	_FY(ph)IFS(ph)QFMYD EHIK_		1.81		
KIAA1217	_PIS(ph)PSPSAILER_	1.82			
KIAA1429	_SFLSEPS(ph)SPGR_			0.81	
KIAA1967	_S(ph)VAS(ph)NQSEM EFSSLQDMPK_				2.28
KIDINS220	_S(ph)PEHSAEPIR_				2.33
KIF2A	_PDLS(ph)PSYEYDDFS (ph)PSVT(ph)R_			0.27	
KIF5B	_PIRPGQHPAAS(ph)PT HPSAIR_				1.74
KLC1	_ASS(ph)LNVLNVGGK -				1.05
KLC4	_AAS(ph)LNYLNQPSA APLQVSR_	1.02	1.06		
KPNA2	_NVSSFPDDAT(ph)SPL QENR_				31.67
KPNA3	_NVPQEESEDS(ph)D VDADFK_		1.02	0.99	1.07
KRI1	_AFVEDS(ph)EDEDGA GEGGSSLLQK_			0.89	1.01 4.27
LARP1	_ESPRPLQLPGAEGPAI S(ph)DGEEGGGEPGAG GGAAGAAGAGR_		0.88	0.95	1.15

LARP1	_GLS(ph)ASLPDLSEN WIEVK_	1.23					
LARP1	_GLSAS(ph)LPDLSEN WIEVK_	1.52	0.90				1.50
LARP1	_NTFTAWS(ph)DEES(p h)DYEIDDR_		1.00				
LARP1	_NTFTAWS(ph)DEESD YEIDDR_						1.19
LARP1	_SLPTTVPES(ph)PNYR _	1.17					
LARP4	_EQYVPPRS(ph)PK_						1.07
LARP4B	_SPS(ph)PAHLPDDPK_		0.83				
LARP6	_LNCSTS(ph)PEIFR_						1.24
LARP7	_SRPTS(ph)EGSDIESTE PQK_						1.08
LATS1	_SVT(ph)PPPPPR_	1.21					
LBR	_SAS(ph)ASHQADIK_						1.83
LCORL	_AQGIYGVPHS(ph)T(p h)LEYK_	1.02					
LEMD2	_PSSFSDS(ph)ER_						1.47
LEO1	_KLTS(ph)DEEGEPSG K_						1.98
LIG3	_PNNSGEAPS(ph)SPTP K_	1.08	1.04				
LIMA1	_ETPHS(ph)PGVEDAPI AK_			0.83	0.31	0.91	0.88
LMNA	_LRLS(ph)PS(ph)PTSQ R_	1.03	2.36				

LMNA	_LRLS(ph)PSPTS(ph)Q R_			0.91		1.03
LMNA	_LRLSPS(ph)PTSQR_	1.68				
LMNA	_LSPS(ph)PTSQR_			0.93		
LMNA	_SGAQASSTPLS(ph)PT R_	1.15		0.88		0.88
LMNB1	_TTIPEEEEEEEAAGV VVEEELFHQQGT(ph)P R_					7.06
LMO7	_ATLSSTSGLDLMSES GEGEIS(ph)PQR_	1.33	1.13	0.97		
LMO7	_LPS(ph)PTS(ph)PFSSL SQDQAATSK_	1.55	1.03		0.40	1.27
LMO7	_LPS(ph)PTSPFSSLSQD QAATSK_	1.32		0.95		0.88
LMO7	_MYS(ph)FDDVLEEGK —	1.55	1.04			1.14
LMO7	_REDS(ph)FESLDSLGS R_		1.35			
LMO7	_REDSFESLDSLGS(ph) R_	2.38				
LMO7	_RGES(ph)LDNLDSR_		1.14			
LMO7	_S(ph)WASPVYTEADG TFSR_					1.26
LMO7	_SHS(ph)PSASQSGSQL R_	1.44			0.94	1.17
LMO7	_TSTTGVATTQS(ph)PT PR_	1.52				
LMO7	_VTTEIQLPS(ph)QSPV					1.04

	EEQSPASLSSLR_				
LMO7	_VTTEIQLPSQS(ph)PV EEQSPASLSSLR_	1.47		0.89	1.13
LMOD1	_NSLS(ph)PATQR_		0.68	0.98	0.97
LMOD1	_PSPQPS(ph)PKPS(ph)P K_	1.03	1.00	1.00	0.78
LMOD1	_PSPQPSPKPS(ph)PK_				0.82
LMOD1	_QVS(ph)EDPDIDSLLE TLSPEEM(ox)EELEK_				0.78
LPIN2	_LPAYLATS(ph)PIPTE DQFFK_				0.97
LRRC47	_EEGS(ph)LSDTEADA VSGQLPDPTTNPSAGK —				0.83
LRRC47	_EEGSLS(ph)DTEADA VSGQLPDPTTNPSAGK —				1.03
LRRC47	_EEGSLSDT(ph)EADA VSGQLPDPTTNPSAGK —		0.80		
LRRC9	_LPNLQM(ox)LDGSPV NS(ph)DDR_		0.05		
LRRFIP1	_NMPGLSAATLASLG GTSS(ph)R_		0.86		
LRRFIP1	_RGS(ph)GDTSISIDTE ASIR_			0.51	
LRWD1	_ANS(ph)PEKPPEAGA AHK_		0.87		14.91
LRWD1	_RPDDVPLSLS(ph)PSK —				14.09

LSM14A	_S(ph)PTMEQAVQTAS AHLPAAPAAVGR_	1.06	0.89	0.99	
LSM14A	_S(ph)PVSTRPLPSASQ K_		0.90	0.83	0.84 1.27
LSM14A	_S(ph)SPQLDPLR_			1.83	
LUZP1	_EKPDS(ph)DDDLDIAS LVTAK_			0.91	
MACF1	_EIQEVQAFTGNFVDL IS(ph)GQR_	3.25			
MAK16	_EFVEDGEVDES(ph)DI S(ph)DFEDMDK_		1.92	1.58	
MAP1A	_AELEEM(ox)EEVHPS DEEEEDAT(ph)K_	1.44			
MAP1A	_AELEEMEEVHPS(ph) DEEEEDATK_	1.30	1.00		1.28
MAP1A	_AELEEMEEVHPSDEE EEDAT(ph)K_				1.26
MAP1A	_APSLDSSLPQLPS(ph) PSSPGAPLLSNLPR_	1.21			
MAP1A	_APSLDSSLPQLPSPSS(ph)PGAPLLSNLPR_				1.11
MAP1A	_ELAPAWEDTS(ph)PE QDNR_		0.63		
MAP1A	_ELSSEPQT(ph)PPAQK —	1.38		0.84	
MAP1A	_ELVLS(ph)S(ph)PEDL TQDFEEM(ox)K_	4.17			
MAP1A	_GELS(ph)PSFLNPPLP PSIDDR_	1.29		0.84	1.27

MAP1A	_GLDS(ph)GAETEEEEK —	1.24		0.95	2.00
MAP1A	_PAS(ph)PALSEGSSSE ATTPVISSVAER_		0.91		
MAP1A	_QLS(ph)PESLGTLQFG ELNLGK_		1.01		1.08
MAP1A	_SPFEIIS(ph)PPAS(ph)P PEMVGQR_	2.86		1.95	2.48
MAP1A	_TEATQGLDYVPSAGT ISPTSS(ph)LEEDK_	1.42			
MAP1A	_VPPPRS(ph)PQAQEAP VNIDEGLTGCTIQLLP AQDK_	1.18	0.14	0.78	1.31
MAP1A	_VPSAPGQES(ph)PIPD PK_	1.35		0.87	1.34
MAP1A	_WLAES(ph)PVGLPPE EEDK_	1.29		0.97	
MAP1B	_AAEAGGAEEQYGFL TT(ph)PTK_	1.69	1.40		1.20
MAP1B	_AET(ph)EEAEEPEED GEEHVCVSASK_		1.05		1.12
MAP1B	_AS(ph)VSPM(ox)DEPV PDSESPIEK_	1.54			1.01
MAP1B	_ASVS(ph)PMDEPVPD S(ph)ESPIEK_	1.55		0.95	
MAP1B	_ASVS(ph)PMDEPVPD SES(ph)PIEK_				1.01
MAP1B	_ASVS(ph)PMDEPVPD SESPIEK_	1.39		0.98	
MAP1B	_ASVSPM(ox)DEPVPD	2.07	1.83		

	SES(ph)PIEK_					
MAP1B	_ASVSPMDEPVPDSES(ph)PIEK_			0.57		1.14
MAP1B	_DYNASAST(ph)ISPPS SMEEDK_	1.68				
MAP1B	_DYNASASTIS(ph)PPS SMEEDK_					1.38
MAP1B	_ESS(ph)PLYS(ph)PTFS DSTSAVK_	1.57	1.17	0.70	0.88	3.19
MAP1B	_ESSPLYS(ph)PTFSDS TSAVK_	1.45				
MAP1B	_ESSPLYSPT(ph)FSDS TSAVK_					1.16
MAP1B	_EVPSKEEPS(ph)PVK_			0.71		
MAP1B	_FEDEGAGFEESS(ph)E TGDYEEK_	1.46	1.22	0.19		1.08
MAP1B	_GEAEQS(ph)EEEEADE EDK_	1.40	1.13	0.21		
MAP1B	_GEAEQS(ph)EEEEADE EDKAEDAR_					1.13
MAP1B	_LGDVS(ph)PTQIDVSQ FGSFK_	1.54	1.22	0.17		1.18
MAP1B	_LGDVSPT(ph)QIDVSQ FGSFK_		1.18			1.19
MAP1B	_PMSISPPDFS(ph)PK_	1.36				
MAP1B	_QGS(ph)PDQVS(ph)PV SEMTSTSLYQDK_					2.01
MAP1B	_S(ph)PDEEDYDYESY EK_	1.71				

MAP1B	_S(ph)PPLIGSESAYESF LSADDK_	1.36	1.06		1.20
MAP1B	_S(ph)PSDSGYSYETIG K_	2.01	1.46		1.88
MAP1B	_S(ph)PSLS(ph)PS(ph)P PSPLEK_	4.22			
MAP1B	_S(ph)PSLSPSPPS(ph)P LEK_			0.91	
MAP1B	_SDIS(ph)PLTPR_	1.95			
MAP1B	_SLMS(ph)S(ph)PEDLT K_	2.62			
MAP1B	_SLMSS(ph)PEDLTK_		1.08		
MAP1B	_SPS(ph)LSPSPPS(ph)P LEK_			0.76	
MAP1B	_SPSLSPSPPS(ph)PLEK _	1.32		0.85	1.06
MAP1B	_T(ph)PEEGGYSDISE K_	1.37			
MAP1B	_TATCHS(ph)SSSPPID AASAEPYGFR_			0.96	
MAP1B	_TATCHSSS(ph)SPPID AASAEPYGFR_	1.42			
MAP1B	_TATCHSSSS(ph)PPID AASAEPYGFR_				1.02
MAP1B	_TTS(ph)PPEVSGYSYE K_	1.46	1.23		
MAP1B	_VLS(ph)PLRS(ph)PPLI GSESAYESFLSADDK_	1.67	1.16	0.36	1.38
MAP1B	_VQSLEGEKLS(ph)PK_		1.19		

MAP1B	_VSAEAEVAPVS(ph)P EVT(ph)QEVVEEHCAS PEDK_					2.08
MAP1B	_VSAEAEVAPVS(ph)P EVTQEVVEEHCAS(ph) PEDK_	1.40	1.08			
MAP1B	_VSAEAEVAPVSPEVT QEVVEEHCAS(ph)PED K_	1.35	1.08	0.17		1.22
MAP1S	_AVPMAPAPAS(ph)PG SSNDSSAR_				0.88	1.05
MAP1S	_LSLS(ph)PLR_	1.06	1.10			1.11
MAP1S	_S(ph)ASPHDVDLCLV SPCEFEHR_			1.14		
MAP2	_VDHGAEIITQS(ph)PG R_				0.86	
MAP2K2	_PVVDGEEGEPHSIS(p h)PR_		1.13			1.26
MAP3K7	_S(ph)IQDLTVTGTEPG QVSSR_			0.97		1.19
MAP4	_DVT(ph)PPPETEVVLI K_	1.20		0.14	0.90	
MAP4	_ETERAS(ph)PIK_			0.94	0.94	
MAP4	_KCS(ph)LPAEEDSVLE K_			0.27		
MAP4	_VGS(ph)LDNVGHLPA GGAVK_	1.24		0.12		1.17
MAP4	_VGS(ph)TENIK_					1.28
MAP7D1	_ESAAPAS(ph)PAPSPA PSPTPAPPQK_			0.95		

MAP7D1	_KPNAGGS(ph)PAPVR	1.05	0.26	1.42
	—			
MAP7D1	_SSQPS(ph)PTAVPASD		0.79	
	SPPTK_			
MAP7D2	_RLSSSTVAIS(ph)YSP			6.87
	DR_			
MAPK1	_VADPDHDHTGFLTE		0.54	1.19
	YVAT(ph)R_			
MAPK6	_FESLM(ox)NIHGFDL		0.17	
	GS(ph)R_			
MARCKS	_AEDGATPSPS(ph)NET		0.98	1.20
	PK_			
MARCKS	_AEDGATPSPS(ph)NET	1.20		
	PKK_			
MARCKS	_AEDGATPSPSNET(ph)		0.56	0.93
	PK_			1.05
MARCKS	_AEDGATPSPSNET(ph)	1.28		
	PKK_			
MARCKS	_EEPAAAGS(ph)GAAS	1.62		1.27
	PSAAEK_			
MARCKS	_GEPAAAAAPEAGAS(1.34	0.40	0.96
	ph)PVEK_			1.24
MARCKS	_LSGFS(ph)FK_	1.30		
MARCKSL	_GDVTAEAAAGAS(ph)	1.92	0.83	9.44
1	PAK_			
MARCKSL	_GEVPPKET(ph)PK_	1.53		
1				
MARK2	_VPAS(ph)PLPGLER_	1.00		1.00
MARK3	_GIAPAS(ph)PMLGNA			1.52

	SNPNK_				
MATR3	_RDS(ph)FDDR_		0.79		
MATR3	_SYS(ph)PDGKES(ph)P SDK_			1.80	
MCM2	_GLLYDS(ph)DEEDEE RPAR_	1.89	1.22		3.71
MCM2	_GNDPLTSS(ph)PGR_	1.32			
MCM2	_RTDALTSS(ph)PGR_	1.19			
MDC1	_GPGAPGLAHLQESQ AGS(ph)DTDVEEGK_				13.97
MDC1	_LLLAEDS(ph)EEEVDF LSER_				14.09
MDC1	_S(ph)SPGIHLER_				28.22
MFAP1	_IVEPEVVGES(ph)DS(p h)EVEGDAWR_	2.08			
MFAP1	_SLAALDALNT(ph)DD ENDEEEYEAWK_		0.80		
MFF	_PLALKT(ph)PPR_			0.46	
MICAL3	_AVHS(ph)PIR_				1.42
MICALL1	_KPS(ph)PAASPATK_	1.38		0.45	0.81
MICALL1	_SPVPSPGS(ph)SSPQL QVK_		0.88		
MICALL1	_SPVPSPGSSS(ph)PQL QVK_	1.27			0.88
MID1	_ASVSGPNS(ph)PSETR -				4.90
MLL2	_ALS(ph)PVIPLIPR_				2.51
MLLT4	_SSPNVANQPPS(ph)PG	1.24			

	GK_			
MORC2	_S(ph)PPLPAVIR_			0.93
MORC2	_SVAVS(ph)DEEEVEE EAER_	1.04		
MPHOSPH 10	_S(ph)PVFS(ph)DEDS(p h)DLDFDISK_		2.40	
MPHOSPH 8	_GAEAFGDS(ph)EEDG EDVFEVEK_		0.92	1.17
MPRIP	_SKS(ph)NPDFLK_		9.74	
MRE11A	_GVDFES(ph)S(ph)EDD DDDPFMNTSSLR_	2.18		
MRE11A	_NYSEVIEVDES(ph)D VEEDIFPTTSK_			2.52
MTDH	_SQEIPDDQKVS(ph)D DDK_	1.08	1.40	
MTMR6	_ELLHSVHPES(ph)PNL K_		0.54	
MTSS1L	_AGS(ph)EECVFYTDE TASPLAPDLAK_		1.22	
MVP	_VASGPSPGEGIS(ph)P QSAQAPQAPGDNHVV PVLR_	1.36		
MVP	_VASGPSPGEGISPQS(ph)AQAPQAPGDNHVV PVLR_		0.81	1.32
MXRA7	_GPSS(ph)EGPEEEDGE GFSFK_	2.32		1.60
MYBBP1A	_ALGGEDS(ph)ENEEE LGDEAMMALDQSLAS LFAEQK_		0.66	

MYBBP1A	_DPAQPM(ox)S(ph)PGE ATQSGAR_	1.14				
MYBBP1A	_DPAQPMS(ph)PGEAT QSGAR_		0.91			
MYCBP2	_S(ph)LSPNHNTLQTL K_					1.72
MYEF2	_AEVPGATGGDS(ph)P HLQPAEPPGEPR_			0.97	0.89	
MYH10	_QLHLEGASLELS(ph) DDDTESK_		0.59	0.45		1.61
MYH11	_VIENADGS(ph)EEETD TR_				0.67	
MYH6	_EFDINQQNS(ph)K_	1.37				
MYH9	_ELESQIS(ph)ELQEDL ESER_	1.20				
MYH9	_KGAGDGS(ph)DEEVD GK_	1.07	1.01	0.12		1.02
MYL12A	_AT(ph)SNVFAM(ox)F DQSQIQEFK_	2.43				
MYL9	_AT(ph)SNVFAMFDQS QIQEFK_	1.31	1.59			
MYL9	_ATS(ph)NVFAM(ox)F DQSQIQEFK_	1.29				
MYLK	_DEVEVS(ph)DDDEK_				0.92	
MYLK	_KSS(ph)TGSPTSPLNA EK_				0.62	
MYLK	_SST(ph)GSPTSPLNAE K_				0.62	
MYLK	_SSTGSPT(ph)SPLNAE	1.05				

	K_								
MYO16	_QQEVT(ph)S(ph)INSF LQNTEDM(ox)GLK_							2.26	
MYO9B	_GS(ph)DEENLDSETS ASTESLLEER_			0.69					
MYO9B	_RTS(ph)FSTSDVSK_			0.78				1.06	
MYO9B	_SPLEHSS(ph)PEK_	1.15		0.92	0.45				
MYO9B	_VQEKPDS(ph)PGGST QIQR_	1.21						1.07	
MYO9B	_VSPPAPGS(ph)APET(p h)PEDK_	2.26						2.07	
NACA	_VQGEAVSNIQENTQT PTVQEES(ph)EEEEVD ETGVEVK_							1.20	
NAGK	_SLGLSLS(ph)GGDQE DAGR_	1.15							
NAP1L1	_LDGLVET(ph)PTGYIE SLPR_					0.88	0.97		
NAP1L4	_EFITGDVEPTDAESE WHS(ph)ENEEEEK_	1.03			0.99		0.98	1.11	
NASP	_TEDESLVENNDNIDE TEGS(ph)EEDDK_					0.79			
NAV1	_KT(ph)SLDVSNSAEP GFLAPGAR_			0.59					
NCL	_ALVAT(ph)PGKK_							51.56	
NCL	_KEDS(ph)DEEEDDDSD(ph)EEDEEDDEDEDED EDEIEPAAMK_					1.88			
NCL	_KVVVSPT(ph)K_	1.63							

NCL	_VAVAT(ph)PAKK_					160.15
NCL	_VVVS(ph)PTK_	1.50				17.20
NCL	_VVVS(ph)PTKK_					81.42
NCOA7	_VLSSTS(ph)EEDEPGVVK_			0.63		
NEFM	_SPVPKS(ph)PVEEAK_				1.00	
NEMF	_DELNEELIQEES(ph)S(ph)EDEGEYEEVRK_			1.97		
NEMF	_NPYLLS(ph)EEEDDDVDGDVNVEK_	1.50	1.01	0.92		1.11
NES	_EES(ph)EEDELGETLPDSTPLGFYLR_				0.94	
NES	_EGWDPAVLASEGLEAPPS(ph)EK_				0.82	2.32
NES	_QEASTGQSPEDHASLAPPLS(ph)PDHSSLEAK_				0.75	
NES	_S(ph)LGEQDQMTLRPPEK_	3.44		0.11	0.95	
NEXN	_EM(ox)LAS(ph)DDEEDVSSK_	1.11			0.90	
NEXN	_EMLAS(ph)DDEEDVSSK_			0.98		
NF2	_RLS(ph)MEIEK_			0.29		
NFIC	_SPFNSPS(ph)PQDSPR_				0.92	
NFIX	_S(ph)IDDSEMEPVDDVFYPGTGR_			0.97		

NMD3	_DSAIPVES(ph)DTDDE GAPR_	1.67			
NOC2L	_DLFDLNS(ph)S(ph)EE DDTEGFSE_	2.13	1.98		
NOP14	_HNDIVDS(ph)DS(ph)D AEDR_	2.29			
NOP56	_EELM(ox)S(ph)SDLEE TAGSTSIPK_				1.09
NOP56	_EELM(ox)SS(ph)DLEE TAGSTSIPK_	1.17			
NOP56	_EELMS(ph)SDLEETA GSTSIPK_	1.01			
NOP56	_EELMSS(ph)DLEETA GSTSIPK_	1.02	0.88		1.79
NOP56	_EEPVSS(ph)GPPEAVG K_		0.94		
NOP58	_EEPLS(ph)EEEPCT(ph) STAIASPEK_			0.93	
NOP58	_EEPLS(ph)EEEPCTST AIAS(ph)PEK_			0.48	5.33
NOP58	_EEPLS(ph)EEEPCTST AIASPEK_		0.87	0.89	
NOTCH2	_AEDEALLS(ph)EEDD PIDR_	1.09			1.10
NPM1	_CGSGPVHISGQHLVA VEEDAES(ph)EDEEEE DVK_				2.15
NPM1	_DELHIVEAEAM(ox)N YEGS(ph)PIK_				7.31
NRBP1	_TPT(ph)PEPAEVETR_	1.45			

NRD1	_RGS(ph)LSNAGDPEIV K_					1.56
NSUN2	_AGEPNS(ph)PDAEEA NS(ph)PDVTAGCDPAG VHPPR_	1.57				
NSUN2	_AGEPNS(ph)PDAEEA NSPDVTAGCDPAGVH PPR_				0.72	
NUCKS1	_DS(ph)GS(ph)DEDFL MEDDDDS(ph)DYGSS K_	2.12				
NUCKS1	_EEDEEPES(ph)PPEK_		0.79	0.62	0.88	0.78
NUCKS1	_EMLMEDVGS(ph)EEE QEEEDEAPFQEK_		0.85	0.65	0.85	0.68
NUCKS1	_VVDYSQFQES(ph)DD ADEDYGR_	1.03			0.97	1.38
NUFIP2	_DYEIESQNPLAS(ph)P TNTLLGSAK_					1.04
NUMA1	_TQPDGTSVPGEPAS(p h)PISQR_			0.83	0.93	
NUMA1	_VSLEPHQGPGT(ph)PE SK_					2.95
NUP133	_GLPLGSAVSS(ph)PVL FS(ph)PVGR_					7.70
NUP214	_S(ph)PGSTPTTPTSSQ APQK_		0.83		0.96	
NUP98	_PAPPPQS(ph)QSPEVE QLGR_	1.49				
NUP98	_PAPPPQSQS(ph)PEVE QLGR_					1.80

NUP98	_YGLQDS(ph)DEEEEE HPSK_	1.11				
OR2T27	_Y(ph)VAICNPLHYPV LMS(ph)R_				1.06	
OSBP	_GDMS(ph)DEDDENEF FDAPEIITMPENLGHK —	1.07	1.04	0.99	0.56	
OSBP	_MLAES(ph)DES(ph)G DEESVSQTDK_				1.98	
OXSR1	_TEDGGWEWS(ph)DD EFDEESEEGK_				0.79	0.85 1.00
PAK2	_YLS(ph)FTPPEK_			0.65	0.14	
PAK2	_YLSFT(ph)PPEK_		1.12			
PALLD	_DS(ph)GDENEPIQER_					0.81
PALLD	_IAS(ph)DEEIQGTK_			0.94		0.71
PALLD	_S(ph)PSGHPHVR_					0.86 1.01
PALLD	_S(ph)RDS(ph)GDENEP IQER_	2.50				
PALLD	_SLPTPAVLLS(ph)PTK —	1.61		0.17		0.91
PARVA	_S(ph)PTPKS(ph)PPSR_					2.87
PARVA	_SPTPKSPPS(ph)R_				0.90	
PBXIP1	_ALQAPHS(ph)PSK_	1.30				
PCBP1	_QICLVMLETLSQS(ph) PQGR_			0.47		
PCBP2	_PS(ph)SSPVIFAGGQD R_					1.89
PCBP2	_PSS(ph)SPVIFAGGQD	1.01				

	R_								
PCDHGC3	_KPGAAS(ph)PLASR_							1.90	
PCDHGC3	_KPGAASPLAS(ph)R_				0.96				
PCID2	_MAHITINQYLQQVY(ph)EAIDSR_				0.16				
PDE1C	_RSS(ph)LNSISSSDAK _							1.30	
PDE3A	_VNPVTSLSENYTCSD S(ph)EESSEK_			1.14					
PDHA1	_YHGHS(ph)MSDPGVS YR_								2.40
PDIA6	_DGELPVEDDIDLS(ph) DVELDDL GK_							0.74	
PDLIM2	_AGS(ph)PFS(ph)PPPSS SSLTGAAISR_							1.58	
PDLIM2	_AGS(ph)PFSPPPSSSSL TGAAISR_							0.18	
PDLIM4	_IHIDPEIQDGS(ph)PTT SR_			0.82	0.37	0.99			
PDLIM5	_PFGSVSS(ph)PK_			1.33					
PDPK1	_ANS(ph)FVGTAQYVS PELLTEK_		1.16					1.02	
PDS5B	_AES(ph)PESSAIESTQS TPQK_					0.88		1.28	
PEAK1	_SHSS(ph)PSQIPK_		10.09						
PEAR1	_HPPS(ph)PPLR_							1.00	
PGBD3	_DDS(ph)PDEV PSTFTV QQPPPSR_							0.85	

PGK1	_ALES(ph)PERPFLAIL GGAK_			0.88		
PGM1	_AIGGIILT(ph)ASHNP GGPNGDFGIK_				1.48	
PGM2	_LCAGIMIT(ph)ASHNP K_			0.46		
PGM2L1	_AVAGVMITAS(ph)HN R_			0.29		
PGM3	_STIGVMVTAS(ph)HN PEEDNGVK_	1.32		0.36		1.12
PGRMC1	_EGEEPTVYS(ph)DEEE PK_	1.14			1.36	1.45
PGRMC1	_GDQPAAS(ph)GDSDD DEPPPLPR_				1.16	
PGRMC1	_GDQPAASGDS(ph)DD DEPPPLPR_	1.25	1.36			1.21
PGRMC2	_LLKPGEEPS(ph)EYT(ph)DEEDTK_	1.67				
PGRMC2	_LLKPGEEPS(ph)EYTD EEDTK_		1.13	0.66		
PGRMC2	_LLKPGEEPSEYT(ph)D EEDTK_					1.28
PGRMC2	_PGEEPSEYT(ph)DEED TK_	1.29			0.92	
PHF10	_VS(ph)SYPVALIPGQF QEYY(ph)K_		1.63			
PHF6	_TAHNSEADLEESFNE HELEPSS(ph)PK_					1.56
PHLDA2	_TAPAAPAEDAVAAA AAAPSEPSEPSRPS(ph)			0.20	0.86	

	PQPK_						
PHLDB1	_TLQPPEs(ph)PR_	1.13				0.94	
PHLDB2	_LQLS(ph)DEESVFEEA LMSPDTR_			1.00	0.99	0.97	
PHLDB2	_TSASEGNPYVSSTLS VPAS(ph)PR_						1.12
PHRF1	_AEAPS(ph)SPDVAPA GK_			1.55	0.92		
PI4K2A	_VAAAAGSGPS(ph)PP GSPGHDR_	1.18	1.08		0.32		1.54
PI4KB	_S(ph)VENLPECGITHE QR_			1.00			2.10
PIEZO1	_DPGLEPGPDS(ph)PG GSSPPR_	1.53				0.60	
PIEZO1	_TAS(ph)ELLLDR_	1.46	1.02				
PKD2	_SLDDs(ph)EEDDDDED SGHSSR_					0.92	1.17
PKM	_LDIDS(ph)PPITAR_	1.22	1.04		0.51		
PKN1	_TDVSNFDEEFTGEAP TLS(ph)PPR_	1.00			0.62	0.94	1.02
PLEC	_AQLEPVAS(ph)PAK_						1.25
PLEC	_GYYS(ph)PYSVSGSG STAGSR_						1.49
PLEC	_GYYSPhYS(ph)VSGSG STAGSR_				0.89		
PLEC	_QIT(ph)MEELVR_		1.42				
PLEC	_S(ph)LQEEHVAVAQL R_		1.24				

PLEC	_SSS(ph)VGSSSSYPISP AVSR_	0.89			
PLXNA4	_ECAGEPLFS(ph)LFCA IK_	1.10			
PML	_KAS(ph)PEAASTPR_		0.16		
PNKP	_TPESQPD(ph)PPGTP LVSQDEK_	1.01		0.79	1.01
PNN	_EIAIVHS(ph)DAEK_		1.06	0.78	2.17
PNPLA6	_IVLYQT(ph)DASLTP WT(ph)VR_	3.02			
POGZ	_SLDSEPSVPS(ph)AAK PPSPEK_				4.00
PPAN	_VGGS(ph)DEEASGIPS R_		0.95	0.86	
PPFIA1	_GALHTVS(ph)HEDIR_		0.93		
PPFIBP2	_TQS(ph)GNFYTDTLG MAEFR_			0.97	
PPIL4	_INHTVILDDPFDDPPD LLIPDRS(ph)PEPTR_				1.93
PPP1R10	_VLS(ph)PTAAK_	1.05			
PPP1R12A	_T(ph)GSYGALAEITAS K_		2.25	0.28	1.04
PPP1R12A	_TGS(ph)YGALAEITAS K_	1.13			
PPP1R18	_LLES(ph)PGVEAGEG EAEK_	1.30	0.69		
PPP1R18	_RPS(ph)PGEMR_			0.98	1.05
PPP1R2	_IQEQES(ph)S(ph)GEE DSDLSPEER_	2.01			

PPP4R2	_NHSDSSTSESEVSSVS (ph)PLK_					5.08
PPP6R3	_IQQFDDGGS(ph)DEE DIWEEK_	1.01				1.01
PRC1	_PIFGGTVYHS(ph)PVS R_					7.89
PRKAB2	_DLSSS(ph)PPGPYGQE MYAFR_		1.10			
PRKAB2	_IMVGS(ph)TDDPSVFS LPDSK_		1.22			
PRKAR1A	_EDEIS(ph)PPPPNPVV K_	1.00	1.04	0.11		1.05
PRKAR2A	_GDS(ph)ES(ph)EEDED LEVPVPSR_			1.91	1.91	2.22
PRKAR2A	_RVS(ph)VCAETYNPD EEEEEDTDPR_					1.11
PRKAR2A	_RVSVCAET(ph)YNPD EEEEEDTDPR_				0.87	
PRKCDBP	_IQS(ph)GLGALSR_			0.57		
PRKD3	_TIS(ph)PSTSNNIPLMR —				0.88	
PRPF38A	_VSALEEDMDDVES(p h)S(ph)EEEEEEDEK_			1.47		
PRPSAP2	_LGIAVIHGEAQDAES DLVDGRHS(ph)PPMV R_					2.30
PRRC2A	_ERGT(ph)PPVDPK_			0.93		
PRRC2A	_KGNS(ph)PNSEPPTPK —					3.38

PRRC2A	_LIPGPLS(ph)PVAR_					6.67
PRRC2A	_PLTS(ph)PLR_					2.52
PRRC2C	_LPDLS(ph)PVENK_					1.83
PSD3	_SHS(ph)SPSLNPDTSPI TAK_	1.04				
PSIP1	_QSNASS(ph)DVEVEE K_	1.86				
PSMD2	_APVQPQQS(ph)PAAA PGGTDEK_			0.69		
PSMD2	_APVQPQQS(ph)PAAA PGGTDEKPSGK_					2.39
PTAR1	_DIT(ph)NAFRR_	1.78				
PTGES3	_DWEDDS(ph)DEDMS NFDR_			0.97	0.98	1.08
PTPLAD1	_WLDES(ph)DAEMELR —	1.35	1.08			1.21 2.49
PTPN12	_DVDVSEDS(ph)PPPLP ER_	1.23	7.13			3.44
PTPN14	_ICTEQSNS(ph)PPPIR_			0.93		
PTPN14	_YVS(ph)GSSPDLVTR_				0.75	
PTPN23	_GAAAADLLSSS(ph)P ESQHGGTQSPGGGQP LLQPTK_			0.34		
PTRF	_EGEELGEGERPEEDA AALELS(ph)S(ph)DEA VEVEEVIEESR_	2.02	1.72		1.97	
PTRF	_SFT(ph)PDHVVYAR_			0.11		
PURB	_DSLGDFIGHYAQLGP SS(ph)PEQLAAGAEEG				0.96	

	GGPR_				
PWP1	_LQEEGGGS(ph)DEEE TGSPSEDGMQSAR_		0.96		
RAB11FIP5	_PLSAAPVEGS(ph)PDR K_			1.64	
RAB12	_AGGGGGLGAGS(ph)P ALSGGQGR_	0.07		0.09	
RABL6	_DDPS(ph)DVT(ph)DE DEGPAEPPPPPK_	2.07			
RAD23B	_PAETPVATS(ph)PTAT DSTSGDSSR_	1.16		0.86	1.60
RALBP1	_IAQEIASLS(ph)K_		0.56	0.94	
RALBP1	_TPSS(ph)EEISPTK_			0.78	
RALY	_GRLS(ph)PVPVPR_			0.92	
RALY	_TRDDGDEEGLLTHSE EELEHS(ph)QDTDADD GALQ_				1.15
RANBP2	_NHETDGGS(ph)AHGD DDDDGPHFEPVVPLP DK_				1.08
RANBP2	_NRPDYVS(ph)EEEEED DEDFETAVK_				2.49
RANBP2	_VGEDEDGS(ph)DEEV VHNEDIHFEPIVSLPEV EVK_				1.31
RAPGEF6	_LPEGPVDS(ph)EDDE EEDEEIDR_		0.75		
RAPH1	_PVPANVAPQS(ph)PP AVK_				1.20

RBBP6	_LEVTEIVKPS(ph)PK_	0.92				4.12
RBM10	_GLVAAAYSGES(ph)DS(ph)EEEQER_			1.86		
RBM10	_LASDDRPS(ph)PPR_	0.86				
RBM25	_LGASNS(ph)PGQPNSVK_	1.08	0.81	0.94		1.11
RBM26	_LNHS(ph)PPQSSSR_	1.38				
RBM33	_VKPAS(ph)PVAQPK_				0.81	
RBM39	_YRS(ph)PYSGPK_					2.93
RBM5	_GLVAAAYSGDS(ph)DN EEELVER_	1.02				
RBMX	_DVYLS(ph)PR_	0.90				
RFC1	_IIYDS(ph)DS(ph)ESEE TLQVK_	2.05				
RMDN3	_SQS(ph)LPNSLDYTQTSDPGR_	0.77				
RNF20	_ALVVPEPEPDSDS(ph)NQER_	0.61			0.85	
RP11-831H 9.16	_S(ph)GDETPGSEVPGDK_	0.96	0.80	0.97	0.98	
RP11-831H 9.16	_S(ph)KSPLPPEEEAK_				0.81	
RP11-831H 9.16	_SKS(ph)PLPPEEEAK_			0.97		1.09
RPL28	_RAS(ph)AILR_					1.17
RPL34	_RLS(ph)YNTASNK_	0.40				
RPLP0	_VEAKEES(ph)EES(ph)DEDMGFGLFD_			1.91		2.24

RPLP1	_KEES(ph)EES(ph)DDD MGFGLFD_	2.13			
RPLP2	_KEES(ph)EES(ph)DDD MGFGLFD_	1.01	1.81	1.91	0.98
RPRD2	_DVEDMELS(ph)DVED DGSK_				0.94
RPS27L	_LTEGISFGILQPSDEID DY(ph)K_	5.68			
RPTOR	_VLDTSSLTQSAPAS(p h)PTNK_	2.11	0.57		
RRAS2	_FQEQECPPS(ph)PEPT R_	1.20		0.68	1.26
RRAS2	_KFQEQECPPS(ph)PEP TR_			0.16	
RRBP1	_SHVEDGDIAGAPAS(p h)SPEAPPAEQDPVQL K_	1.01			2.54
RRBP1	_SHVEDGDIAGAPASS (ph)PEAPPAEQDPVQL K_			0.94	
RRM2	_VPLAPITDPQQLQLS(ph)PLK_	5.46			6.68
RRP12	_GDSIEEILADS(ph)ED EEDNEEEER_			0.93	1.00 2.43
RRP1B	_VGDDGLS(ph)AEEIPE NEVSLR_				7.19
RSF1	_DAQRLS(ph)PIPEEVP K_		0.89	0.95	
RSF1	_IES(ph)DEEEDFENVG K_				1.44

RSL1D1	_AT(ph)NESEDEIPQLV PIGK_		1.99	1.72	
RSL1D1	_ATNES(ph)EDEIPQLV PIGK_		0.89		
RTN1	_QS(ph)PVAMETASTG VAGVSSAMDHTFSTT SK_	1.24			
RTN4	_GS(ph)S(ph)GSVDETL FALPAASEPVIR_	3.19			
RTN4	_RGS(ph)SGS(ph)VDET LFALPAASEPVIR_	2.47		0.88	3.79
RTN4	_RGSS(ph)GSVDET(ph) LFALPAASEPVIR_	2.91			
SAAL1	_NPS(ph)PPPPGR_		0.90		1.01
SACS	_DSAPSTPTS(ph)PTEF LTPGLR_	1.40	1.56		
SASH1	_LLVDSQGLS(ph)GCS PR_	1.98			
SCAF1	_T(ph)PEVSFLPEEATE EAGVR_			0.95	
SCAMP3	_KLS(ph)PTEPK_	1.43			1.30 2.33
SCARF2	_APS(ph)PPPPGSEAAP SPSK_		0.34 0.65	0.69	
SCFD1	_VNLEESSGVENS(ph)P AGARPK_				11.03
SCRIB	_LPLLPPES(ph)PGPLR_				1.46
SCRIB	_VQS(ph)PEPPAPER_	1.38		0.75	1.23 1.36
SDAD1	_YIEIDS(ph)DEEPR_		0.96		1.02
SEC16A	_ADSGPTQPPLSLS(ph)	1.28		0.84	1.13

	PAPETK_						
SEC16A	_LLPSAPQTLPDGPLA S(ph)PAR_						2.94
SEC31A	_AQGEPVAGHES(ph)P K_	1.13	1.16	0.32			1.08
SEC31A	_DSDQVAQS(ph)DGEE S(ph)PAAEEQLLGEHI K_			0.99	1.88		
SEC31A	_DSDQVAQS(ph)DGEE SPAAEEQLLGEHIK_		1.10	0.86			
SEC61B	_PGPTPSGTNVGSS(ph) GRSPSK_				0.96		
SEC61B	_PGPTPSGTNVGSSGR S(ph)PSK_						1.31
SENP3	_GS(ph)PPVPSGPPMEE DGLR_				0.68		
SEPT2	_IYHLPDAES(ph)DEDE DFK_	1.11		0.32		0.98	1.00
SEPT5	_FGIHVYQFPECDS(ph) DEDEDFK_			0.22		0.87	
SEPT5	_MES(ph)PIFILPLTPD AETEK_					0.80	
SEPT7	_ILEQQNSSRT(ph)LEK —			0.28			
SEPT7	_IYFPET(ph)DDEEEN K_	1.10					1.62
SERBP1	_DELTDLDQS(ph)NVT EETPEGEEHHPVADTE NK_						8.24
SET	_ELNSNHDGADETS(ph)						5.85

)EK_			
SF1	_TGD LGIPP NPEDRS(p h)PS(ph)PEPIYNSEGK_	1.64	1.69	
SF3A1	_FGESEEVEMEVE S(ph)DEEDDK_	2.09		
SF3A1	_FGESEEVEMEVE S(ph)DEEDDKQEK_			4.60
SF3B2	_SSLGQSAS(ph)ETEED TVSVSK_			1.50
SGIP1	_IT(ph)GEMVLS(ph)FP AGITR_		2.84	
SH2B3	_RGEY(ph)VLT(ph)FNF QGI AK_		0.13	
SH3BP4	_SYSLS(ph)ELSVLQAK _	1.42		
SIN3A	_GDLS(ph)DVEEEEEEE EMDVDEATGAVK_	0.91		
SIPA1	_PSVPSADSETPLTQD RPGS(ph)PSGSEDK_		0.75	
SKIV2L	_ASS(ph)LEDLVLK_	1.06	0.52	1.16
SLC12A4	_LESLYS(ph)DEEDES A VGADK_	1.21		1.31
SLC38A1	_S(ph)LTNSHLEK_	0.68		
SLC4A7	_KHS(ph)DPHLLER_		0.33	
SLC8A1	_AVS(ph)MHEVNTEVT ENDPVSK_		0.17	
SLC9A1	_ETSSPGTDDVFTPAPS DS(ph)PSSQR_		0.71	
SLTM	_DGQDAIAQS(ph)PEK		0.88	1.81

	—				
SLTM	_S(ph)PGHMVILDQTK				1.22
	—				
SMARCA2	_AKPVVS(ph)DFDS(ph) DEEQDER_		2.00		
SMARCC1	_KHS(ph)PS(ph)PPPPTP TESR_		1.36		4.34
SMARCC2	_DMDEPS(ph)PVPNVE EVTLPK_		0.87	0.90	
SMC4	_TES(ph)PATAAETASE ELDNR_	1.25			1.14 3.71
SMN2	_GTGQS(ph)DDS(ph)DI WDDTALIK_	2.23	1.87		
SNIP1	_RPDHSGGS(ph)PSPPT SEPAR_				1.01
SNRNP200	_EEAS(ph)DDDMEGDE AVVR_			0.91	
SNRNP25	_T(ph)Y(ph)HLT(ph)S(p h)AGEK_				3.27
SNTB1	_GAGAGHPGAGGAQP PDS(ph)PAGVR_		0.11	0.91	
SNTB2	_GLGPPS(ph)PPAPPR_			0.84 0.86	
SNTB2	_GPAGEAGAS(ph)PPV R_		0.32 0.74 0.88		
SNW1	_GPPS(ph)PPAPVMHS(ph)PSR_		1.44 1.59 1.63		5.32
SNX1	_LPPFPGLEPESEGAA GGG(ph)EPEAGDS(ph) DT(ph)EGEDIFTGAAV VSK_	3.33			

SOGA2	_VLHS(ph)PPAVR_	0.13	0.79
SON	_ES(ph)DQTLAALLSP K_		1.45
SON	_ESDQTLAALLS(ph)P K_	0.96	
SORBS2	_APALS(ph)PTRPPK_		0.67
SORBS3	_HPSS(ph)PSALR_	0.96	
SORBS3	_LCDDGPQLPT(ph)SPR —	0.22	
SORBS3	_LCDDGPQLPTS(ph)PR —		0.91
SORBS3	_SPADPIDLGGQT(ph)S PR_		0.89
SP100	_SEPVINNDNPLES(ph) NDEK_	0.89	0.92
SP100	_VIGQDHDFS(ph)ES(ph))S(ph)EEEAPAEASSGA LR_	2.27	
SPECC1L	_KGS(ph)S(ph)GNASEV SVACLTER_	7.68	
SPECC1L	_RS(ph)STSSEPTPTVK —	0.78	
SPECC1L	_RSS(ph)TSSEPTPTVK —	0.75	
SPEN	_HGSFHEDEDPIGS(ph) PR_		2.02
SPTBN1	_AQTLPTSVVTITSESS (ph)PGKR_		4.00
SPTBN1	_ES(ph)SPIPS(ph)PTSD	2.15	2.78

	R_				
SPTBN1	_RPPS(ph)PEPSTK_	0.86	0.39	0.88	0.93
SRC	_S(ph)LEPAENVHGAG GGAFPASQTPSK_	1.12			
SRF	_ALIQTCLNSPDS(ph)P PR_	1.10			
SRP72	_TVSS(ph)PPTSPR_	1.03	1.30	1.32	
SRPK1	_GSAPHSESDLPEQEE EILGS(ph)DDDEQEDP NDYCK_	0.78	0.90		
SRRM1	_AAS(ph)PSPQSVR_	0.96			1.24
SRRM1	_APQTSS(ph)SPPPVR_	0.74			
SRRM1	_APQTSSS(ph)PPPVR_	0.86	0.89		1.66
SRRM1	_HRPS(ph)PPAT(ph)PPP K_	1.79	1.38	1.41	3.61
SRRM1	_KET(ph)ES(ph)EAEDN LDDLEK_	1.06	1.85	0.91	
SRRM1	_KET(ph)ESEAEDNLD DLEK_	1.00			
SRRM1	_KETES(ph)EAEDNLD DLEK_	3.70			
SRRM1	_KPPAPPS(ph)PVQS(ph))QSPS(ph)TNWSPAVP VK_	1.13	0.91		
SRRM1	_KPPAPPS(ph)PVQSQS (ph)PSTNWSPAVPVK_	1.13			
SRRM1	_KVELS(ph)ES(ph)EED K_	2.35			
SRRM1	_KVELS(ph)ESEEDK_	1.49			

SRRM1	_RLS(ph)PS(ph)AS(ph)P PR_	2.95		
SRRM1	_RLS(ph)PS(ph)ASPPR_	1.72		2.06
SRRM1	_RYS(ph)PPIQR_	1.07		
SRRM1	_RYS(ph)PS(ph)PPPK_	1.32		
SRRM1	_SRVS(ph)VS(ph)PGR_	1.99		
SRRM1	_TAS(ph)PPPPPK_	0.72	0.87	0.80
SRRM2	_AGMSSNQS(ph)ISSPV LDAVPR_	0.92		
SRRM2	_AQT(ph)PPGPSLSGSK _		0.81	
SRRM2	_ELSNS(ph)PLR_	1.03		
SRRM2	_ENSFGS(ph)PLEFR_	0.85		3.10
SRRM2	_GEFSAS(ph)PMLK_	0.78	1.02	2.42
SRRM2	_HAS(ph)S(ph)S(ph)PES (ph)PKPAPAPGSHR_	3.29		
SRRM2	_HGGS(ph)PQPLATTPL SQEPVNPPS(ph)EASPT R_	0.92	1.70	2.79
SRRM2	_HGGS(ph)PQPLATTPL SQEPVNPPSEAS(ph)PT R_	1.76		
SRRM2	_M(ox)ALPPQEDATAS (ph)PPR_	0.89		
SRRM2	_MALPPQEDATAS(ph) PPR_	0.83		
SRRM2	_MGQAPSQSLLPPAQD QPRS(ph)PVPSAFSDQS R_	0.82	1.11	

SRRM2	_PS(ph)MSPTPLDR_	0.89			
SRRM2	_QSHSESPS(ph)LQSK_				3.60
SRRM2	_RVPS(ph)PTPAPK_	0.97	0.87	0.84	3.07
SRRM2	_S(ph)RS(ph)PLAIR_		1.92		
SRRM2	_SATRPS(ph)PS(ph)PER _		1.85	1.62	
SRRM2	_SCFESS(ph)PDPELK_				2.48
SRRM2	_SRT(ph)PPSAPSQSR_		0.77		
SRRM2	_TS(ph)PPLLDR_		0.88		
SRRM2	_VKPET(ph)PPR_		0.85		
SRRT	_HELs(ph)PPQK_	0.91	0.87	0.94	
SRSF1	_VDGPRS(ph)PS(ph)YGR_		0.92	1.73	
SRSF1	_VDGPRS(ph)PSYGR_		0.99		
SRSF11	_DYDEEEQGYDS(ph)EK_	1.25			
SRSF11	_KPIET(ph)GSPK_		0.78		
SRSF11	_KPIETGS(ph)PK_				3.43
SRSF11	_LNHVAAGLVS(ph)PSLK_				4.76
SRSF2	_S(ph)RS(ph)PPPVSK_		1.63	1.56	
SRSF6	_ARS(ph)VS(ph)PPPK_	1.90	1.98		
SSB	_FAS(ph)DDEHDEHDE NGATGPVK_				1.70
SSH1	_SS(ph)SSDSIHsvR_		0.92		
SSH1	_SSS(ph)SDSIHsvR_			0.95	1.34

SSRP1	_EGMNPSYDEYADS(p h)DEDQHDAYLER_			1.00		2.85
ST13	_ADEPS(ph)S(ph)EES(p h)DLEIDK_	4.07				
ST13	_ADEPSSEES(ph)DLEI DK_					1.25
STAT1	_LQTTDNLLPMS(ph)P EEFDEVSR_		1.10	0.28		
STEAP1B	_SYIYFILS(ph)AAS(ph) PSK_				0.20	
STK10	_QVAEQGGDLS(ph)PA ANR_	1.03		0.48		1.43
STK11IP	_RAS(ph)ISEPSDTDPE PR_	1.06				
STK39	_VPGSS(ph)GHLHK_			0.19		
STMN1	_ASGQAFELILS(ph)PR —					9.22
STMN1	_ESVPEFPLS(ph)PPK_	2.58	1.02			3.60
STRIP1	_AAS(ph)PPASASDLIE QQQK_	1.03		0.99		0.86
STRN	_FLESAAADFS(ph)DE DEDDDVDGR_		1.03	0.94	0.95	
STT3B	_ENPPVEDS(ph)SDED DKR_					0.80
STT3B	_ENPPVEDSS(ph)DED DKR_					1.08
SVIL	_S(ph)PVEMDEDFDVIF DPYAPK_					0.67
SYMPK	_LKPGGVGAPS(ph)SSS			0.97		

	PSPSPSAR_				
SYNE1	_LPLPDDEHDLS(ph)DR_	0.91	0.16	0.94	0.91
SYNPO	_PSLFVLS(ph)PIK_	0.48		0.52	
SYNPO	_S(ph)PGILGYNICPR_	0.41			
SYNPO	_S(ph)PLPAGPSSCTSPR_	0.68			
SYNPO2	_AQS(ph)PTPSLPASWK_				0.85
SYNPO2	_PFPGSVNQPATPFS(ph)PTR_				0.80
TBC1D10B	_AAGGAPS(ph)PPPPVR_		0.72	0.93	0.81
TBC1D10B	_HGAPAAPS(ph)PPPR_		0.55		1.22
TBC1D15	_SLSQS(ph)FENLLDEPAYGLIQK_	3.75			1.18
TBC1D4	_HAS(ph)APSHVQPSDSEK_				17.57
TCEA1	_EPAITS(ph)QNSPEAR_	0.91			
TCEA1	_EPAITSQNS(ph)PEAR_			0.96	
TCEA1	_KEPAITSQNS(ph)PEAR_				1.61
TCOF1	_ASSVSTKES(ph)PAR_				28.55
TCOF1	_KLS(ph)GDQPAAR_	0.64			
TCOF1	_LGAGEGGEASVS(ph)PEK_	1.65	0.66		27.74

TCOF1	_SAEPSANTTLVS(ph)E TEEEGSVPAFGAAAK_				5.74
TERF2IP	_YLLGDAPVS(ph)PSS QK_				2.13
TFE3	_AASDPLLSSVS(ph)PA VSK_				1.11
TGDS	_FIY(ph)VS(ph)TDEVY GGSLDK_	1.26			
TGFB1I1	_VQNHLPASGPTQPPV VSSTNEGSPS(ph)PPEP TGK_	0.78		0.53	
TGOLN2	_DSPSKSS(ph)AEAQTP EDTPNK_			0.92	
TGOLN2	_S(ph)SAEAQTPEDTPN K_	1.06			
TGOLN2	_SS(ph)AEAQTPEDTPN K_		0.82		
TGOLN2	_TES(ph)GEETDLISPP QEEVK_	1.20			
THOC2	_IDTHPS(ph)PSHSSTV K_				1.87
THOC2	_IDTHPSPSHSST(ph)V K_				1.96
THRAP3	_ASAVSELS(ph)PR_	0.95	0.83	0.95	
THRAP3	_FSGEEGEIEDDES(ph) GTENR_		0.98		
THRAP3	_HGLAHDEMKS(ph)PR —				2.27
THRAP3	_IDIS(ph)PSTFR_	0.98	0.99		3.60

THRAP3	_S(ph)PPSTGSTYGSSQ K_			0.83	
THRAP3	_WAHDKFS(ph)GEEGE IEDDESGTENR_				2.69
THUMPD1	_DQQPS(ph)GS(ph)EGE DDDAEAALK_			1.58	
TJP1	_S(ph)REDLSAQPVQT K_			0.99	1.04
TJP1	_VQIPVSRPDPEPVS(ph))DNEEDS(ph)YDEEIHD PR_		1.54		
TJP2	_DNS(ph)PPPAFKPEPP K_		0.82	0.93	
TLE4	_DAPIS(ph)PASIASSSS TPSSK_	1.42	1.33		
TLN1	_VLVQNAAGS(ph)QEK _		1.19	1.00	1.38
TLN2	_LDEGT(ph)PPEPK_	1.09			
TMEM87A	_WVEENVPSVTDVA LPALLDS(ph)DEER_	1.19	0.94	0.99	
TMPO	_AKT(ph)PVTLK_				1.12
TMPO	_GPPDFS(ph)S(ph)DEE REPT(ph)PVLGSGAAA AGR_	2.94			
TMPO	_GPPDFS(ph)S(ph)DEE REPTPVLGSGAAAAG R_				2.39
TMPO	_GPPDFS(ph)SDEEREP TPVLGSGAAAAGR_				4.84
TMPO	_GPPDFSDEEREPT(ph)		0.94	0.78	

)PVLGSGAAAAGR_						
TMPO	_SS(ph)T(ph)PLPTISSS AENTR_					1.30	
TMX1	_KVEEEQEADEEDVS(ph)EEEEASK_	1.15	1.01				1.29
TNC	_LPVGSQCSVDLESAS(ph)GEK_	1.40		0.32			1.57
TNKS1BP1	_AS(ph)PEPPGPESSSR_			0.83	0.20	0.81	0.74
TNKS1BP1	_DS(ph)LGAYASQDAN EQGQDLGK_			0.93			
TNKS1BP1	_RFS(ph)EGVLQSPSQD QEK_			0.49			
TNKS1BP1	_SFGTRPLS(ph)SGFSP EEAQQQDEEFEK_				0.60		
TNKS1BP1	_SFGTRPLSS(ph)GFSP EEAQQQDEEFEK_			0.84			
TNKS1BP1	_VPS(ph)S(ph)DEEVVE EPQSR_				1.58		
TNKS1BP1	_YESQEPLAGQES(ph)P LPLATR_					0.78	
TNS1	_AQFSVAGVHTVPGS(ph)PQAR_	1.00		0.97			0.94
TNS1	_EATSDPS(ph)RTPEEE PLNLEGLVAHR_				0.89		
TNS1	_HLGGSGSVVPGS(ph) PCLDR_			0.86	0.19		
TNS1	_VATTPGS(ph)PSLGR_	1.14		0.84			
TNS1	_VATTPGSPS(ph)LGR_					0.96	
TNS3	_ASEAAS(ph)PLPDSPG				0.80	0.69	

	DK_				
TOMM70A	_AS(ph)PAPGSGHPEGP GAHLDMNSLDR_				1.80
TOP2A	_GSVPLSSSPAT(ph)H FPDETEITNPVPK_	2.15			
TOP2A	_NENTEGS(ph)PQEDG VELEGLK_				8.47
TOP2A	_VPDEEENEES(ph)DN EK_	2.11			8.04
TOP2B	_AS(ph)PITNDGEDEFV PSDGLDK_		0.78		
TOP2B	_FDS(ph)NEEDSASVFS PSFGLK_		0.92	0.84	0.82 1.03
TOP2B	_TSFDQDS(ph)DVDIFP SDFPTEPPSLPR_			0.71	
TOP2B	_VVEAVNS(ph)DS(ph) DSEFGIPK_			1.75	
TOP2B	_VVEAVNSDS(ph)DS(p h)EFGIPK_		1.96		
TOR1AIP1	_DS(ph)HS(ph)SEDEA SSQTDLSQTISK_			1.95	
TOR1AIP1	_VNFSEEGET(ph)EED DQDSSHSSVTTVK_		0.41		
TP53BP1	_GGPGKLS(ph)PR_			0.90	
TP53BP1	_IDEDGENTQIEDTEP MS(ph)PVLNSK_			0.89	1.13
TP53BP1	_MVIQGPS(ph)SPQGE AMVTDVLEDQK_	1.09	0.92		
TP53BP1	_S(ph)PEPEVLSTQEDL		1.06	0.98	0.95

	FDQSNK_				
TP53BP1	_SEDMPFS(ph)PK_		0.78		
TP53I11	_KHS(ph)QTDLVSR_		0.11		
TPI1	_KQS(ph)LGELIGTLNA AK_	1.19	0.89		1.54
TPR	_TDGFAEAIHS(ph)PQV AGVPR_				2.01
TRA2B	_RPHT(ph)PTPGIYMG R_				1.28
TRAFD1	_LDSQPQET(ph)SPELP R_	2.22		1.22	
TRAFD1	_LDSQPQETS(ph)PELP R_	1.03	0.80		
TRIM16	_ETEEQDSDS(ph)AEQ GDPAGEGK_			0.73	
TRIM29	_T(ph)PYQFTTLGQAT AEFSK_	2.38			
TRIO	_AGAAS(ph)PLNSPLSS AVPSLGK_	1.31			1.07
TRIP10	_APS(ph)DSSLGTPSDG RPELR_	1.02		0.42	
TRMT10A	_NELDS(ph)PHEEK_				1.06
TRPC6	_LGILGS(ph)HEDLSK_	1.19			
TTC7B	_LPISSS(ph)TSNLHVD R_			0.44	
TXLNA	_RPEGPGAQAPS(ph)SP R_	1.19		0.64	
TXLNA	_RPEGPGAQAPSS(ph)P R_			0.91	1.12

U2AF2	_EEHGGLIRS(ph)PR_					2.50
UBAP2L	_NPSDSAVHS(ph)PFTK_					10.19
UBAP2L	_SPAVATSTAAPPPSS(ph)PLPSK_				0.68	
UBE2J1	_RLS(ph)TSPDVIQGHQPR_				0.76	
UBR1	_KILHELIFS(ph)SFFM(ox)EM(ox)EYK_				0.63	
UBR4	_HVTLPS(ph)SPR_					1.56
UCN3	_PIFS(ph)CLNTALS(ph)EAEK_			1.98		
UNC45A	_PAT(ph)PGASSVEQLR_			0.81	0.97	
USE1	_S(ph)ELLGTAEAEPEMDVR_		149.99			
USO1	_DLGHPVEEEDELES(ph)GDQEDEDDESEDPGK_			0.83	0.39	0.80
USP24	_T(ph)ISAQDTLAYATALLNEK_	2.40		0.61		
USP4	_Y(ph)MSNTYEQLS(ph)K_			1.95		
USP8	_S(ph)YSSPDITQAIQEEK_	2.03				
UTP3	_TSAAACAVTDLS(ph)DDS(ph)DFDEK_	2.00				
VAMP4	_NLLEDDS(ph)DEEEDFFLR_	1.04	1.28	0.52		1.09

VCAN	_M(ox)SDLSVIGHPIIDS (ph)ESK_				0.47			
VCAN	_MSDLSVIGHPIDSES(ph)K_		0.94		0.50			
VCL	_DPSAS(ph)PGDAGEQ AIR_				0.94	0.82	1.05	
VCL	_GQGSS(ph)PVAMQK_					0.86		
VCL	_S(ph)LLDASEEAIK_					0.98		
VCL	_S(ph)LLDASEEAIKK_						1.23	
VDAC1	_LTFDSSFS(ph)PNTGK _							2.13
VIM	_ETNLDS(ph)LPLVDT HSK_	2.02						
VIM	_LLQDS(ph)VDFSLAD AINTEFK_					0.97	1.25	
VIM	_SLYASS(ph)PGGVYA TR_		1.05	0.89				1.85
VPS13B	_AGWVVGs(ph)LDILG S(ph)PASLVR_					1.66		
VPS4B	_GNDS(ph)DGEGESDD PEKK_	1.21						
WAPAL	_VEEESTGDPFGFDS(p h)DDESLPVSSK_	1.05						
WDR20	_S(ph)NSLPHSAVSNA GSK_						1.06	
WDR44	_EYVSNDAAQS(ph)DD EEK_	1.06	1.11	0.87				
WDR44	_LT(ph)QTSSTEQLNVL ETETEVLNK_						1.40	

WDR70	_TMFAQVES(ph)DDEE AK_							0.90	
WDR77	_KET(ph)PPPLVPPAAR —								2.41
WDYHV1	_MNLNDFIS(ph)M(ox) DPK_		1.07						
WRNIP1	_RPAAAAAAGSAS(ph) PR_								2.13
XRCC6	_S(ph)DSFENPVLQQH FR_								3.53
XRCC6	_SDS(ph)FENPVLQQH FR_							0.99	
XRN2	_NS(ph)PGSQVASNPR_	1.01							6.26
YAP1	_QAS(ph)TDAGTAGAL TPQHVR_							0.41	
YBX1	_NEGS(ph)ESAPEGQA QQR_			0.85	0.68	0.86	0.79		
YBX1	_NYQQNYQNS(ph)ESG EK_			0.83		0.99			
YRDC	_LFRPPS(ph)PAPAAPG AR_								3.45
YTHDC1	_GIS(ph)PIVFDR_			0.98		0.83	0.93		
YWHAЕ	_AAFDDAIAELDTLS(p h)EESYK_	1.16	1.35						1.50 1.98
YWHAZ	_TAFDEAIAELDTLS(p h)EESYK_	1.10	1.17		0.79				1.05
ZC3H18	_LGVSVS(ph)PSR_					0.86	0.86		2.53
ZC3H18	_LGVSVSPS(ph)R_			0.82					
ZC3H4	_PAT(ph)PHLLHHR_				0.93				

ZCCHC11	_FYTLDFALEEY(ph)VICVR_		0.81		
ZFYVE19	_LPDS(ph)DDDEDEETAIQR_	1.20			
ZFYVE28	_DLLQT(ph)LTEEELHT(ph)LER_		1.89		
ZNF174	_PHVCVFLNVIY(ph)NS(ph)R_			19.48	
ZNF385C	_QGPS(ph)PAFHCALCQLQVNSETQLK_		0.96		
ZNF530	_DFWMS(ph)SNLHQLQKLDNGEK_			10.49	
ZNF579	_AAALQALQAQAPTS(ph)PPPPPPPLK_	1.00			
ZNF579	_ES(ph)ESEEAEAGAAELR_	2.28			
ZNF609	_LVEPHS(ph)PSPSSK_		0.52		
ZRANB2	_EVEDKES(ph)EGEEEDEDEDLSK_			0.74	
ZRANB2	_S(ph)RS(ph)PESQVIGENTK_		1.96	1.66	
ZRANB2	_YNLDAS(ph)EEEDSNK_	1.07		0.98	
ZYX	_FS(ph)PVTPK_	1.39		0.95	1.16
ZYX	_GPPASS(ph)PAPAPK_	1.53	0.12	0.79	1.22
ZYX	_S(ph)PGAPGPLTLK_		0.12		
ZYX	_VS(ph)SIDLEIDSLSSLLDDM(ox)TK_	1.09			
ZYX	_VS(ph)SIDLEIDSLSSL	2.12	0.75	0.90	

	LDDMTK_	
SEPT9	_S(ph)FEVEEVETPNST	1.11
	PPR_	