

		223	229					
Human	QFY-----	-----MKDGV	TAKADVTRESGIRD	LIPG-----SVIDATM	NPCGYSMNG-----	MKSD	236	
Drosophila	IFY-----	-----KNKFN	DANGATVKSGIDT	ILPT-----MHIDDFL	FDPCGYSMNG-----	INDK	244	
C.elegans	KFT-----	-----KDYAV	DGNDCFMRA	IDKIIPA-----GADVHDEL	FDPCGYSMNA	Y-----	MNDT 254	
Neurospora	KFYLEEAT----	-----AIAKE	KLFKSEANGDAS	FDVFS	SSGDCDADGQAILPEAL	TTEGHALGTVVSEACGLSAVYPTSTYP-----	D-ARIDAYQFSPCGFSANGVVPVAGADGTIPKS 378	
Yeast	KF-----	-----VCGPEAS	-----	TTALVPE	NEDKGNLGYQMTKNTRLDEI	YVNSAQDSD--LS-FHHDAFAFTPCGYSSN-----	MILAE 294	
Dictyostelium	QFF-----	-----KREGV	SAWDTTVNSGIADLLPG-----	SMIDDFQ	FDPCGYSMNG-----	LLN	266	
Arabidopsis	VFY-----	-----KDEAD	KTGSMTDNSGIRKILPK-----	SEICDFE	FEPCGYSMNS-----	IEG	239	
Potato	VFY-----	-----KTEESA	AHMTVRS	GIRKILPK-----SEICDFE	FEPCGYSMNS-----	IEG	242	
T.brucei	HWYS-----	-----DKMLP	TGPETAVIREATGLSEV	VDDS-----WILHDLQ	VEPCGYSINA-----	IRG	255	
T.cruzi	HWFS-----	-----DRFI	STGTETAAIRKATKLDKV	ADDS-----WKLHDLQ	VEPCGYSINT-----	IRG	256	
L.major	YWFR-----	-----DRFI	STSAETAIRAATHLDRV	VDDGT-----WTLHDLQ	VEPCGYSINA-----	IRD	260	
T.brucei prozyme	-----	-----VQADDE	YDLGNTKEQQLLV	SHC-----	-----	A	228	
T.cruzi prozyme	-----	-----VKT	DGSGDDDDALKSVQ	VVPLS-----	-----	E	229	
L.major prozyme	-----	-----VAAG	-----	LEE	VNKTQRFHALQ-----	S	203	
P.falciparum	CCHNNNYS	SGSCHNIVSVVPSERNNDH	VHRRHYEDTLNRSNISAEDNNR	NAQLEKEKED	VRRDDEENK	VLIKMDIDT	NLYECINYNKESFLYNEFYFTPCGYS	CNVS-----EK 427

	243	247	256																			
Human	GTYYTITITPEP-	EFSYVSFETNLSQT-----	SYDDLIRKVV	EVFKPKGFVTT--LFVNQSS-----	KCRTVLAS	PQKIEG---	FKRLDCQS	AMFN	YNFVFTS	FAKKQQQ	331											
Drosophila	GEYMTITITPEN-	QFSYVSFETNVALS-----	NYRKLINQV	INTFKPKGFI	VT--IFANKCS-----	LAYETMKE	LEVEYSQGS	HWKRTDM	QCCNFP	SYNLLFAQ	YSHSEKT 343											
C.elegans	DQYATITITPEK-	AFSFASFETNQDLV-----	CLYSQTRK	VLQCFRPNKILMT--VFANDISE-----	RGKDAQ	QQLWDRELPG--	YRRTNV	QFVRLE	TETLVY	AHFV	RKAST 352											
Neurospora	GHYFTITITPEP-	QCSFASFETNVPG--	QNGRQTA	EIVQVNI	FRPGRFSVT--LFEAK	GALATTPGED	ADDSRR	SWGAA	AQRMER	INGYRR	VDRIVHDFEDYDLVFRY	YEREDWV 492										
Yeast	KYYTITITPEK-	GWSYASFESNIPV	DISQGGKQDNL	DVLLHILNVFQ	PREFSMT--FFTKN-----	YQNQSF	QKLLSIN---	ESLPD	YIKL	DKIVYD	LDYHLFYMKLQKKI-- 396											
Dictyostelium	EFYWTITITPES-	HCSYVSFDTNVALA-----	DYNQLLAK	VLNVFKPGRFTA--LYA	EDGAPCGDPY	TAFDVNVPSYAIQNK	TVHGF	DGGYD	VVVS	NYQQLDK	KVNF	SNDLLIQSIE 376										
Arabidopsis	DAISTITITPED-	GFSYASF	EAVGDFN---TLDLS	QLVTRVLS	CFEPKQFSVA--VHSS	VGANSYKPEIT	VDLEDY	GCRERT	FESL	GEE--SGT	VMYQTFEKL	KGKYGSPRSTL	KCEWS 351									
Potato	AAVSTITITPED-	GFTYASF	ESVGNPK---TME	LGPLVERVLAC	FEPAEFSVA--LHAD	VATKLLERIC	SDVVKYSLA	EWSPEE	FGE--GGS	IVYQ	FTRT-PY	CESPKSVL	KGCKW 352									
T.brucei	SEYQITITITPEE-	HCSFASYETNTCALN-----	YSKICG	VLRFVDP	PERFSVI--VFIDPD	SAVG-----	KSYHSGGT	IGVE	PEYYP	NEAH	RTVNEYTPGH	WLVK	VNVKRAV 357									
T.cruzi	AEYQITITITPED-	HCSFASYETNTPAVN-----	YSERINT	VLGVFAP	IRFSVI--VFIDPD	SDVG-----	RLYQK	QNVG	VEAY	PKYEL	QNR	TVNEFAP	GPVVMK	MNYARRAE 358								
L.major	EEYQTMITITPED-	HCSFASYETNSRATN-----	YSDRM	KVLGV	FRPQRTVI--VFLD	PSPVG-----	KAYNE	GKIG	VEPE	YYP	PEYSL	LHRT	TNEFAP	GVAMK	INYVRTAA 362							
T.brucei prozyme	GEYETL	SVSTYGS	THPFASFETNA	VSAAS---DIT	KIVNGLL	KKFYPER	VLV--LLQ	DRD-----	AQGT	TACG	VMDR	LEGFT	VVHR	GANHF	GGGYV	FHQATY	ARSA-- 325					
T.cruzi prozyme	TEYEML	RVSTDN	MAHPFAAFETNS	MIAAT---KK	REL	VRGLLEK	FCPDR	FTMV--VLQ	DRC-----	SPLAQ	KGSIF	DEME	GYT	IMNR	ATNH	FGQY	AHQTSY	IRAE-- 326				
L.major prozyme	GEYEVMT	TFAG---VPC	ISFETNA	KAAVA---SP	TRVQK--LLD	TQPH	FTVA--ALQ	DRD-----	ADES	ALRC	FN	NAFT	PT	YTL	QNR	TVNL	FGEGY	AHQLL	FARSAD 297			
P.falciparum	NNYFCV	HYSPED-SVSYVSV	EVSNLS	CD---RFL	DFMHK	QLNFY	NGKYM	FMIYV	YVPEE	NNMS	KMVP	DDNN	NYSSG	KSCV	YQDL	NKKE	KEE	YRLN	KKLR	NDL	FINS	KQFYELH 541

Human	QQS-----	334		
Drosophila	GDYL-----	347		
C.elegans	GQDSSSSDEDDGERSD-----	368		
Neurospora	GGGGARMGEEF-----	503		
Yeast	-----			
Dictyostelium	STNIDLIV-----	385		
Arabidopsis	SNNSCSSEDEKDEGI-----	366		
Potato	-----EEKEGKE-----	360		
T.brucei	GTVGTSAA	GAKE-----370		
T.cruzi	VTEK	STDSVEE-----370		
L.major	VEETDA	AVGGAEPGAKSGPD-----382		
T.brucei prozyme	-----			
T.cruzi prozyme	-----			
L.major prozyme	-----			
P.falciparum	TFTERTV	GFMRVQYFYVKLRD	VVKC	VE 570