

Sc.Bol1	DYKNFAFGLY	NDSHKHKGHA	GVQGNVSA-E	THFRIEMVSK	KFEGCLKLPQR	HRMVYSLLQD	EMAQANG--I	HALQLSL-KT	PQEYESKAK	
Ashbya	DLRHFA--IY	NDSYKHAGHA	GMEHAANRTE	SHLRLEVSE	QFSGMALPKR	HRLLYTLLDD	EIKH-HG--V	HALQLTT-RT	PEEHDRKTEA	QLG
Candida	PL-YFK--ID	NDSHKHAHHA	GIRGAKNKTE	SHFRLEIVSD	VFEGKSLPAR	HLRVYSILAN	ELKN-DG--V	HALQMKT-KT	PEEINKTQN	
Yarrowia	PV-FFK--VN	NDSHKHAHHA	AMRGSDNTIE	SHFRLTIVSD	KFEGKSAPIR	HRMVYKLFEE	EMAQPNG--L	HALSLTT-KT	PKWEAELEKK	
Magnaporth	PS-RLE--IH	NDSHLHAHHK	AMQGSTSR-E	THFRLVVTSE	QFRSKNQPAR	HRATYSLLKD	EMAKEGG--I	HALQLKT-MT	PEEDERQRLK	EEEQAK
Aspergill	PS-TLI--IR	NDSHLHAHHA	PMQGVTSK-E	THFHVTITSS	AFQSKMQPAR	HRMVYSLLKD	EMSREGG--I	HALQLRT-RT	PEEEEREKIR	QSQA
Neurospora	PR-TLQ--IH	NDSHLHAHHS	AMRGVTSR-E	THFRVVISSD	AFKRKMQPAR	HLRVYGLLKD	EMAKEGG--I	HALQLRT-MT	LEEEDKRRDK	EEAEERARTC KD
Schizosacc	TDKIT---LY	NDSYKHSHHI	AMKGVPTDNE	THFRLEIVSP	EFSGMSRVAR	HLRVYGLLKD	efd--GG--L	HALQITSSKT	PDEVS	
Hs.BOLA1	IRTKLEEALS	PEVLELRNES	GGHAVPPGSE	THFRVAVVS	RFEGLSPLQR	HLRVHAALAE	ELGGP----V	HALAIQA-RT	PAQWRENSQ-	LDTSPPCLGG NKKTLGTP
Canis	IRTKLEQALN	PEVLELRNES	DAHAVPPGSE	THFRVAVVS	RFEGLSPLQR	HLRVHAALSE	ELAGR----V	HALAIQT-RT	PAQWKENPQ-	LDMSPPCLGG NKKTRGTP
Bos	IRTKLEQALN	PEVLELRNES	GGHAVPPGSE	THFRVAVVS	RFEGLSPLQR	HLRVHAALSE	ELAGP----V	HALAIQA-RT	PAQWKENPQ-	LDTSACLGG SKKSRN
Apis	IKKKLIDFLN	PSYIEVINES	YMHNVSKGSE	THFKVIVSD	LFKDKPLIKR	HQMINKLLEA	ELQGG----V	HALSIVA-KT	SDQWKDKCN-	ISPSPVCRGG FGK
Drosophila	MRKALNTELK	PVYLEVINES	PQHNVPKRSE	SHFRVFVSE	KFNDLTLIKR	HLRVNDTVKN	ALKEAGFEFM	HALSIEA-KT	PKQWEPEQE-	PEKSPCLGG HGK
Dictyostel	IEKLSNQFK	PIHLDVVNES	YMHSVPRGSE	THFKVIVSD	IFNGKSVVAQ	HLRINDTLKN	EMKNG---V	HALSIHC-ST	PDKWDEST--	ISPSPGCMGG SKKEKQK..
Caenorhabd	LKEKLFAAFQ	PKHLEVECES	HLHNVPKGAE	KHFRVQVSD	EFEGKRVIER	HLRVNTCLAK	ELATT----V	HALRIDA-IP	TSKWDGQKQ-	-EDSPTCRGG FGK
			58	67		86		102		
Sc.Bol3	EEKMITDKLQ	QEL-EPEVCK	VQDVS-GGCG	SMFAINITSK	KFNGLSLIKQ	HQLVNRILRD	DISR-----W	HGLQLTT-KK	STGKGPASS	
Ashbya	EEALITQKLT	DAL-APGYVK	VTDVS-GGCG	SMFTIDIRST	HFKGKSMVQQ	HKLVNRVLAD	DIKR-----W	HGLQLRT-KA	E	
Candida	YESKIYNILQ	QEL-NPVLNK	IKDVS-GGCG	SMFSIFIESE	KFKGLTMIKQ	HLRVNEILKD	EIKK-----W	HGLQLRT-KK	V	
Yarrowia	YEKQISQMLT	DEF-KPVS LD	VRDIS-GGCG	SMFAIQIVSD	KFKGIPMVKQ	HLRVNALLAD	EIKQ-----W	HGLQLVT-KA	A	
Magnaporth	SETEIWNRLM	AEF-EPVELV	VQDIS-GGCG	SMYGIEISSD	KFRGSGMLKQ	QRMVNKVLAD	LMKE-----W	HGVQLRT-RV	P	
Aspergill	TPELLKSKLV	EQL-QAQVVE	IEDLS-GGCG	QAFQAIIVSP	QFEKKNMLAR	HLRVNSVLKS	EIAA-----I	HAWTPKC-YT	PEQWQALQQG	SA
Neurospora	GEAQVWDILI	REF-APTNLV	VRDIS-GGCG	SMYGVDICSE	KFRGLNMLKQ	QLRVNAALGD	LVKQ-----W	HGIQIKT-SV	P	
Schizosacc	GERRIKDILT	EKL-SPSSLR	VIDVS-GGCG	SMYQVAIKSK	AFQ GKNTLAQ	HLRVNSILKE	EIRN-----M	HGLNLST-EV	EDDISAGGST	TSS
Hs.BOLA3	GELRVTTQILK	EKFPRATAIK	VTDIS-GGCG	AMYEIKIESE	EFKEKRTVQQ	HQMVNQALKE	EIKE-----M	HGLRIFT-SV	PKR	
Canis	GELKVTRILK	EKFPGATAIK	VTDIS-GGCG	AMYEIQIESE	EFKEKRTVQQ	HQMVNQALKE	EIKG-----M	HGLRIFT-SV	PKH	
Bos	AELKVTTQILK	EKFPRATAIK	VTDIS-GGCG	AMYEIKIESE	EFKEKRTVQQ	HQMVNQALKE	EIKG-----M	HGLRIFT-SV	PKH	
Apis	AEQKMISILR	NKFPKAKLIE	VNDVS-GGCG	AMFEINVVAP	EFKGLNTIKQ	HLRLINEALKE	EIKD-----M	HGVRIYT-SV	PES	
Drosophila	YDSKYLEEKL	KRELQTEYVS	VTDES-DGCG	GKFSAVIVSP	AFSGKTLLQK	HLRVNSTLAE	ELKE-----I	HAFSQKS-YT	PEEWEKVKAQ	
Dictyostel	VEDIEKRLKL	KFSSEDDKIK	IIDES-GGCG	AKFLVAIGSS	QFDGVSLLEK	HLRVNELLEKE	EISQ-----I	HAITLKT-WT	LKQYEEKINT	I
Caenorhabd	AELKMSKLLT	EGIDGCTRVE	VHDVS-NGCG	SMFDVVVEAA	GFKGKSKVAQ	HKQVTSILRE	QIKD-----M	HGLTIKT-KA	A	
			59			81		96		