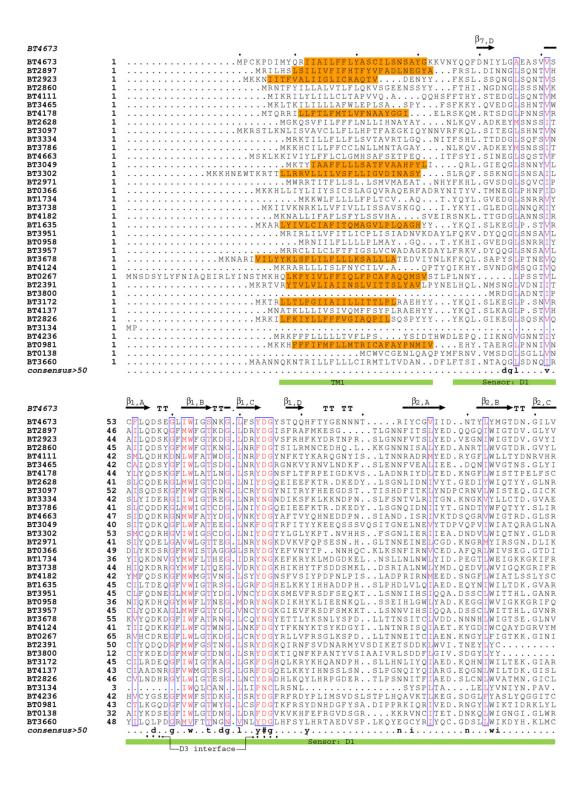
Figure S1: Sequence alignment of all HK3 sensors from B. thetaiotaomicron

Sequences are aligned for all 35 HK3 sequences identified in *Bacterioidies* thetaiotaomicron. Elements of secondary structural in BT4673 are shown above its sequence. T stands for a turn conformation.



		0		
BT4673		→ <sup>β2</sup> , D	$\beta_{3,A}$ $TT-$ .	$\beta_{3,B}$ TT $\beta_{3,C}$ TTT $\beta_{3,D}$
BT4673	114			LwLgalng.LytyQLQsrkLts
BT2897 BT2923	108 109			IWVVTQSQAVFYYNPQTNKLINYL IWIASEAQNLFCYDLKEQSLRNYI
BT2860	109	YHPASDVFTHI.NQKTKEGKTMDN	WVSAIVGDTQGN	IWVIIPDQGIFRYKDNELYFYE
BT4111 BT3465	108 106			VWLLTEHDGAIRVVTLPQKNYTTKSD LWIATLGQGLFIYDPKTEVL
BT4178	110			VWLRHSGNGCLRMVHQKDRQMVSTE.
BT2628	105	LNRKTNTITHYNEFQ	LFFMNK.DSHGN	LFIIQDSNCIYYYHKKEGVFKKIN
BT3097 BT3334	118 107			LFLNTSDSRLLTGCSN.GIYQYDNEKNSFTPF LYIGK.REEVFVFNENTNNFD
BT3786	105	LDRKTNSITRFNEFQ	KLFLMNKDNHST.	LFIIKDTNCIYYFHKKEGIFKKIN
BT4663 BT3049	112 109			LLI.STPEGLIMFDIKESKFIDDS LWVCTYYRGIEYLDIATGKFTHYN
BT3302	117			FFIIKDDGYIYYYQPEQKDFCKLD
BT2971	105			LWVSC.ADGIYYYTGQGTELT
BT0366 BT1734	114 102			IWLHCDNA.LHRIEFNDKGEVQILST IWLCN.EETIFLYNTRTEEV
BT3738	110			IWLCY.KDTITWYNIRTGTT
BT4182 BT1635	108 110			IWLWDNNNGCRRVVYQDGQFSSQA.Y LLFGA.KNKIYFYSYRDGSFRLLQEF
BT3951	110			TWALSYDW.IAYYNTHHRRFVRIP
BT0958	102			LWLCG.KDSILLYNTKTTQV
BT3957 BT3678	110 120			TWVVSDEG.IFYYNTYHKKFVHLK
BT4124	107			SWITFQNECAAIRIDDQLCKQGKGITL
BT0267 BT2391	130 109			VWVGT.LTSVFRCSADFSY FWIVKGGQLQCLKRHYKLVKGDLQIEMTVE
BT3800	71	FNRKRETF.LPIHTESDT	AIG.VFNVLPADSS	FWGISGNRLILCQWEIQQGKEEEKTAVRVRIQ
BT3172 BT4137	110 108			ILFGG.KDRIYKYSYKDSSLRLLQYF ILFGG.QGKIYHYSYKESCIRKIYEF
BT2826	111	YDRGSDSFRTLSNN.GKP	YVASYLLVEGG	ILLGG.SGAIYKYVYATNKLEPLYYA
BT3134	40	DVFKRF.KIASSEGITLD	WVAEILSDSLDN	IWVLIPDQGLFRYKDGKVHHYS
BT4236 BT0981	110 110			LYLATSHG.LFESRPIRKKEGKEDFVYCILNP VLLLTKDKSLLRANTDQNGKITMKQLH
BT0138	95	LNRSGSELQRIVPEK	DCAVNALLADGD.V	LYIGTERGLFIQKDGQLLQVQTDKNM
BT3660 consensus>50	114			IWLLTSQE.LRELETGIRL
		10	Senso	
			Delibo	1: D1
BT4673		▶ 0000		
	163	► 2022 . ————— TT	<u>β4,Β</u> .► <b>TT</b>	• ηl β <sub>4,D</sub> ττ
BT4673 BT2897	163 167	FDTRRNGLPNNTIYSIRTKD SDQ.SGRLKFGSLGQLYFDSD	β4,B .►TT β4,C NQIYVG.TYNGLCRY	η1 β4,D TT  (I PSNGKFEGIPLPVHSSQSNLF KKDKLQTLVPVF. PKDGNEPFKGEVICK
BT4673 BT2897 BT2923	167 168	FDTRRNGLPNNTIYSIIRTKDR SDQ.SGRLKFGSLGQLYFDSDR LTE.HS.LVSTNVKCLTVDNSC	β4,B. ►TT β4,C NQIYVG.TYNGLCRY NVCWLDIRDGNLYFS STIWIGFYGDGLFYS	nl A,D TT  II. PSNGKFEGIPLPVHSSQSNLF  KKDKLQTLVPVF.PKDGNEPFKGEYICK  KKDNLKTLHPYLSPVDNEETYNDDVVSK
BT4673 BT2897	167 168 166 167	FDTRRNGLPNNTIYSIRTKD . N SDQ .SGRLKFGSLGQLYFDSD . N LTE.HS .LVSTNVKCLTVDNS . C ISN .RRQFKQESPNCICVREN . C IYSTKSGLFPADHF .YQVYQDKAC	β4,B .►TT β4,C  NQIYVG.TYNGLCRY  NVCWLDIRDGNLYFS  STIWIGFYGDGLFYS  SEVWIGFWGLGICRY  SNHWLL.TDNGLGMI	η1 β4,D TT  (I PSNGKFEGIPLPVHSSQSNLF  KDKLQTLVPVF.PKDGNEPFKGEVICK  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RPGEQQPVNYFVETKGKQDGMNQAFYA
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465	167 168 166 167 161	FDTRRNGLPNNTIYSIIRTKD  FDTRRNGLPNNTIYSIIRTKD  SDQ.SGRLKFGSLGQLYFDSD  LTE.HS.LVSTNVKCLTVDNS  ISN.RRQFKQESPNCICVREN  IYSTKSGLFPADHF.YQVYQDKAC  TQNSIQTSFVMDVCQSYDK	β4,B .►TT β4,C  NQIYVG.TYNGLCRY NVCWLDIRDGNLYFS STIWIGFYGDGLFYS EVWIGFWGLGICRY SNHWLL.TDNGLGMI KKYYVSSLQEGLLCF	TT  (I
BT4673 BT2897 BT2923 BT2860 BT4111	167 168 166 167	FOUNDAMENT TO THE FORWARD FOR	β <sub>4,B</sub> TT β <sub>4,C</sub> NOIYVG.TYNGLCRY NCWLDIRDGNLYFS TTIWIGFYGDGLFYS EVWIGFWGLGICRY NHWLL.TDNGLGMI KKVYVSSLQEGLLCF SRIWIG.TQRGLVSV	TT  (IPSNGKFEGIPLPVHSSQSNLF  KDKLQTLVPVF.PKDGNEPFKGEYICK  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDREGR.PLVGKNINS  RPGEQQPVNYFVETKGKQDGMNQAFYA  'DENGKFLQSYRVSSDVNSSDSYKIN  SQ.YKVEDRLLHFTSSLAFKNDMY
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097	167 168 166 167 161 166 156	FOR THE STATE OF T	β4,B .►TT β4,C  NQIYVG.TYNGLCRY  NCWLDIRDGNLYFS  ETIWIGFYGDGLFYS  EVWIGFWGLGICRY  NHWLL.TDNGLGMI  KKVYVSSLQEGLLCF  RIWIG.TQRGLVSV  RRWWVVM.KGYN  VVLWIN.SNKGVKRY	TT  (I PSNGKFEGIPLPVHSSQSNLF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT2628 BT33097 BT3334	167 168 166 167 161 166 156	FOR THE PROPERTY OF THE PROPER	β4,BTT β4,C  NQIYVG.TYNGLCRY NVCWLDIRDGNLYFS TIWIGFYGGLIFYS EVWIGFWGLGICRY SNHWLL.TDNGLGMI KVYVVSSLQEGLICF RIWIG.TQRGLVSV RRMWVVMKGYN NLWMGTTSNGVYCL	TT  TI. PSNGKFEGIPLPVHSSQSNLF  KDKLQTLVPVF.PKDGNEPFKGEYICK  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RPGEQQPVNYFVETKGKQDGMNQAFYA DENGKFLQSYRVSSDVNSSDSYKIN  SDGQYKVEDRLLHFTSSLAFKNDMY  RCYDIQQEAASG.DITLLPQ  NLKKEQFEPLPLNIRPFLETC  SDDDKQLSQPITKGNIAS
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	167 168 166 167 161 166 156 170 151 156	FOR A STATE OF THE	B4,BTT β4,C  NOIYVG.TYNGLCRY NOCWLDIRDGNLYFS ETIWIGFYGGLIFYS EVWIGFWGLGICRY NHWLL.TDNGLGMI KWYVSLQEGLLCF ERIWIG.TQRGLVSV RMWVVM. KGYN. VUWIN.SNKGVKRY NLWMGTTSNGVYCL NRWVVMM.KGYN. QIYIGTSTDGLYTY	TT  (I PSNGKFEGIPLPVHSSQSNLF  KEDKLQTLVPVF.PKDGNEPFKGEYICK  KEDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RPGEQQPVNYFVETKGKQDGMNQAFYA  DENGKFLQSYRVSSDVN.SSDSYKIN  (SDGQYKVEDRLLHFTSSLAFKNDMY  RCYDLQCEAASG.DITLLPQ  NLKKEQFEPLPLNIRPFLETC  SDDKQLSQPITKGNIAS  RCYDLQQDPLTE.NITLVSQKSGLD  SITQKIFEKVIPILGTKQIQAI
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT4663 BT3049	167 168 166 167 161 166 170 151 156 167	FOR ONLY TT  FDTRRNGLPNNTIYSIIRTKD  SDQ.SGRLKFGSLGQLYFDSD  LTE.HS.LVSTNVKCLTVDNS  ISN.RRQFKQESPNCIVREN  ISNSGLFPAPHF.YQVYQDKA  TQNSIQTSFVWDVCQSYDK  FKTERGNLPDNRVQFVNE  LNEGKG  ENIRGLVEDSN  LYYHLAGKDINLSCLHLDEK  VTGIPISDV.ITFFFDKN  FST.AMH  KTIASTLYRQG  KST.VPALPSEGTWTATEAED	β4,BTT β4,C  NQIYVG.TYNGLCRY NVCWLDIRDGNLYFS STIWIGFYGGLICRY SNHWLL.TDNGLGMI KKYYVSSLQEGLLCF SRIWIG.TQRGLVSV RRMWVVMKGYN NVLWIN.SNKGVKRY NLWMGTTSNGVYCL RRMWVMM.KGYN. OQIYIGTSTGLYTY KLYIGTVEGGLSIL	TT  TIPSNGKFEGIPLPVHSSQSNLF  KKDKLQTLVPVF.PKDGNEPFKGEYICK  KKDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RPGEQQPVNYFVETKGKQDGMNQAFYA DENGKFIQSYRVSSDVN.SSDSYKIN  SDGQYKVEDRILHFTSSLAFKNDMY  RCYDIQQEAASG.DITLLPQ  NLKKEQFEPLPLNIRPFLETC  SDDKQLSQPITKGNIAS  RCYDLQQDPLTE.NITLVSQKSGLD  SITQKTFEKVIPILGTKQIQAI  SLNDKSVKHFVHDPQNPNSLPGNDVRC
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971	167 168 166 167 161 166 170 151 156 167 171 168 150	FOR A STATE OF THE	β4,BTT β4,C  NOIYVG.TYNGLCRY NVCWLDIRDGNLYFS TIWIGFYGDGLFYS EVWIGFWGLGICRY NHWLL.TDNGLGMI KKVYVSSLQEGLLCF KRIWIG.TQRGLVSV RRWWVVMKGYN. VJWIN.SNKGVKRY (NLWMGTTSNGVYCLI RRWVMM.KGYN. QIYIGTSTDGLYTY KKLYIGHVEGGLSIL SVLWIFS.SDNDN TVWV.VTRKYLVAL	TT  (I PSNGKFEGIPLPVHSSQSNLF  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RP GEQQPVNYFVETKGKQDGMNQAFYA  DENGKFLQSYRVSSDVN.SSDSYKIN  SD GQYKVEDRLLHFTSSLAFKNDMY  RCYDLQQEAASG.DITLLPQ  NLKKEQFEPL PLNIRPFLETC  SDDKQLSQFIT KGNIAS  RCYDLQQDPLTE.NITLVSQKSGLD  SITQKTFEKVI PILGTKQTQAI  SLNDKSVKHFVHDPQNPNSLPGNDVRC  RSYLIEKNG N.QVKLVPS  SREDPLRQEIL LTLDKGNC
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT3786 BT3049 BT3302 BT3302 BT3049 BT3049	167 168 166 167 161 166 170 151 156 167 171 168 150 175	FTT  FDTRRNGLPNNTIYSIIRTKD  SDQ.SGRLKFGSLGQLYFDSD  LTE.HS.LVSTNVKCLTVDNS  ISN.RRQFKQESPNCIVREN  ISN.RRQFKQESPNCIVREN  ISNSGLFPAPHF.YQVYQD KAC  TQNSIQTSFVWDVCQSYDK  FKTERGNLPDNRVQFVNE  LINEGKG  ENIRGLVED SILL  LYLLAGKDINLSCLHLD EKE  VTGIPISDV.ITF  FFD KNI  FST.AMH  KTIASTLYRQG  VKKIHFEEV.QQM  AID NF  FF.ARVQ  KGFVGRALYVD K.L  LSPVYLNGPDIAL  KDID EDG	β4,BTT β4,C  NQIYVG.TYNGLCRY NVCWLDIRDGNLYFS TIWIGFYGDGLFYS EDWIGFYWGLGICRY SNHWLL.TDNGLGMI KKYYVSSLQEGLLCF SRIWIG.TQRGLVSV NRMWVVM.KGYN VVLWIN.SNKGVKRY VLWIN.SNKGVKRY VLWIN.SNKGVKRY VLWIN.SNKGVKRY VLWIN.SNKGVKRY VLWIN.SNTGVKTY VLWINSTSNGVYCL NRMWVMM.KGYN QLIYIGTSTDGLYTY OKLYIGTSTDGLYTY OKLYIGTSTDGLYTY CKLYIGHVEGGLSIL SVLWIFS.SDNDN ETVWV.VTRKYLVAI	TT  TI. PSNGKFEGIPLPVHSSQSNLF  KDKLQTLVPVF.PKDGNEPFKGEYICK  KKDKLQTLVPVF.PKDGNEPFKGEYICK  KKDNLKTLHPYLSPVDNEETYNDDVVSK  RPQ  GEQQPVNYFVETKGKQDGMNQAFYA  DENGKFIQSYRVSSDVN.SSDSYKIN  SD  GQYKVEDBRILHFTSSLAFKNDMY  RCYDIQQEAASG.DITLLPQ  NLKKEQFEPL  PLNIRPFLETC  SDDKQLSQPIT  KGNIAS  RCYDLQQDPLTE.NITLVSQKSGLD  SITQKFFEKVI  PILGTKQIQAI  SSLNDKSVKHFVHDPQNPNSLPGNDVRC  RSYIIEKNG  SREDPLRQEIL  LTLDKGNC  SSREDPLRQEIL  LTLDKGNC  SSREDPLRQEIL  LTLDKGNC  SSREDPLRQEIL  LTLDKGNC  SSREDPLRQEIL  LTLDKGNC  LLS  PQKRLVTTPIADCLKFEAGT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971	167 168 166 167 161 166 170 151 156 167 171 168 150	FTT  FDTRRNGLPNNTIYSIIRTKD  SDQ.SGRLKFGSLGQLYFDSD  LTE.HS.LVSTNVKCLTVDNS  ISN.RRQFKQESPNCICVREN  ISN.RRQFKQESPNCICVREN  IYSTKSGLFPADHF.YQVYQD KA  TQNSIQTSFVWDVCQSYDK  FKTERGNLPDNRVQFVNEDAG  ITGIPISDI.VNFFIDGNI  LNEGKGENIRGLVED  SNI LYYHLAGKDINLSCLHLDEK  VTGIPISDV.IFFFFDKNN  FST.AMHKIIASTLYRQG  KST.VPALPSEQTWTATEAED  VKKIHFEEV.QQMAIDNF  FF.ARVQKGFVGRALYVD K.  LSPVYLNGPDIALKDIDED  CTHVKNCLSEAINDIEQIDE.S	β4,B .►TT β4,C  NQIYVG.TYNGLCRY NVCWLDIRDGNLYFS ETIWIGFYYGDGLFYS EEVWIGFWGLGICRY NHWLL.TDNGLGMI KXYYVSSLQEGLLCF GRIWIG.TQRGLVSV RMWVVM.KGYN. VVLWIN.SNKGVKRY NNLWMGTTSNGVYCL NRMWVMM.KGYN. QQIYIGTSTDGLYTY KLYIGHVEGGLSIL VJWIFS.SDNDN. TVWV.VTRKYLVAI KKYMGNNGEIRKVA KKYMGNNGEIRKVA KKYTGTEMGIHHA	TT  (I PSNGKFEGIPLPVHSSQSNLF  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RP GEQQPVNYFVETKGKQDGMNQAFYA  DENGKFLQSYRVSSDVN.SSDSYKIN  SD GQYKVEDRLLHFTSSLAFKNDMY  RCYDLQQEAASG.DITLLPQ  NLKKEQFEPL PLNIRPFLETC  SDDKQLSQFIT KGNIAS  RCYDLQQDPLTE.NITLVSQKSGLD  SITQKTFEKVI PILGTKQTQAI  SLNDKSVKHFVHDPQNPNSLPGNDVRC  RSYLIEKNG N.QVKLVPS  SREDPLRQEIL LTLDKGNC
BT4673 BT2897 BT2923 BT2928 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT4063 BT3049 BT3302 BT302971 BT3302 BT3786 BT1734 BT3738	167 168 166 167 161 156 170 151 156 167 171 168 150 175 165 164	FOR ANY OF THE STANDARD SERVING SERVIN	β4,B .►TT β4,C  NQIYYG TYNGLCRY VCWLDIRDGNLYFS TIWIGFYGDGLFYS EDWIGFWGLGICRY ENWIG TORGLYS NRWVL TONGLGMI KCYYVSSLQEGLLCF ENWIG TORGLYS NRWVVM . KGYN VLWIN . SNKGVKRY LTUWYMM . KGYN TVWV . VTKKYLVA I ENWIGTS . SDNDN TVWV . VTKKYLVA I ENWIGT . TEMGIHA ENFIG . TEMGIHA	TT  (I PSNGKFEGIPLPVHSSQSNLF  KDKLQTLVPVF.PKGGNEPFKGEYICK  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGR.PLVGKNINS  RP GEQQPVNYFVETKGKQDGMNQAFYA  DENGKFLQSYRVSSDVN.SSDSYKIN  SD GQYKVEDRLLHFTSSLAFKNDMY  RCYDIQQEAASG.DITLLPQ  NLKKEQFEPL PLNIRPFLETC  SDDKQLSQPIT KGNIAS  RCYDLQQDPLTE.NITLVSQKSGLD  SITQKTFEKVI PLIGTKQTQAI  SITQKTFEKVI PLIGTKQTQAI  SLNDKSVKHFVHDPQNPNSLPGNDVRC  RSYLIEKNGN.QVKLVPS  SREDPLRQEIL LTLDKGNC  LS PQKRLVTTPIADCLKFEAGT  QLKNNTLQLIP CDKLDNVNIQVNDL  'GIEKGELKQIP DEVVKSLVTPVHEL  LDG KLEAMDTQGESWEHI.FSYDQYTCI
BT4673 BT2897 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT3786 BT3049 BT3302 BT3049 BT3302 BT2971 BT0366 BT2971	167 168 166 167 161 156 170 151 156 167 171 168 150 175 157	FOR A STATE OF THE	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	TT  (I PSNGKFEGIPLPVHSSQSNLF  KDKLQTLVPVF.PKDGNEPFKGEYICK  KDNLKTLHPYLSPVDNEETYNDDVVSK  NPQNDSFEQIVEDRDGG.PLVGKNINS  RP GEQQPVNYFVETKGKQDGMNQAFYA  DENGKFLQSYRVSSDVN.SSDSYKIN  SD GQYKVEDRLLHFTSSLAFKNDMY  RCYDLQQEAASG.DITLLPQ  NLKKEQFEPL PLNIRPFLETC  SDDKQLSQPIT KGNIAS  . RCYDLQQDPLTE. NITLVSQKSGLD  SITQKTFEKVI PILGTKQTQAI  SLIQKTFEKVI PILGTKQTQAI  SLNDKSVKHFVHDPQNPNSLPGNDVRC  RSYIIEKNG QVKLVPS  SREDPLRQEIL LTLDKGNC  LLS PQKRLVTTPIADCLKFEAGT  QLKNNTLQLLP CDKLDNVNIQVNDL  GGIEKGELKQIP DEVVKSIVTPVHEL  INLKTGRYSRPP FDCGKEIMS
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		β6, Α		β <sub>6</sub> , Β.	β6, C.		β <sub>6.D</sub>			β <sub>7.A</sub>		β <sub>7,B</sub>
BT4673	254	<b>→</b>	TT	T	T	TT			TT		TT -	
BT4673 BT2897	264 272							HDSRN .HLRNVSGD				WLGT WIGS
BT2923	274	LLVY.	TDNEL	WIGTE	SGVYIY	NLRTEKY	T	.HLRSSEYD	PYSLSDNA	AIYSFCKD	.REDGI	[WIGS
BT2860 BT4111	268 365							.SLKEDLMR .PFYDDLGS				WIGT
BT3465	263	LLKY.	TENEL	LVGTD.	NGLYLF	N.RESKT	F	. LRADNPAD	PRSLSDQT	IINGMMW <mark>D</mark>	. AEGAI	ZWVLT
BT4178 BT2628	347 258	IVHD.						.HFLANIND				IWVSS WIGT
BT3097	266							.HYQQSESD				
BT3334	250	CCED.	NLGNL	WIGTF	HGLNRY	DKSTGQF	QLY	TANDNK	PDGLTHSS	SIWCIVKD	.EQGTI	LWLGT
BT3786 BT4663	258 268							LPIN .SYSSNPVE				/WIGT 4WLGT
BT3049	280	IKQL.	KDNKL	WIATE	JNGIMII	DLQQNQF	LLPEQIR	FEFIREGDN	NYSLSNAS	SARYIFQD	.SFNNI	[WIGT
BT3302 BT2971	268 246							INVQ TRYGSS				I W V G A I W V G T
BT0366	281							PNGGTN				WFGT
BT1734	260							IVADYNS				WMAN
BT3738 BT4182	268 347	IIHD.						ITADYSS .HFTFEVSH				WLAN WVSS
BT1635	264	LAER.	.ENKL	WIGTDO	GGINII	EPETGQL	SLLEHIP	GRD	NYSLPANS	SILSLYND	.RNNN]	WAGS
BT3951 BT0958	265 255							IDQN IVANYES				LWVGT
BT3957	265							VDRN				LWVAS
BT3678	283	IAEDI	NTHTL	WVGTR	SGLSII	KLDEPDA	FINYKSG	KTDYRI	PSDI	EVNSIMRD	.AQRN	1WIGA
BT4124 BT0267	350 285	IFED.						.PMLKDSNN			. NQGNO	WIAA
BT2391	279	VALD.	NDS	YIAVTV	N G Y T L I	APEEND.	.PSKLSA	<b>TPYTNTSFL</b>	QYRNVETI	RMIS <mark>V</mark> YY <b>D</b>	.KEGII	WIGT
BT3800	243							EIYNNTHTQ				WIGT
BT3172 BT4137	260 259							GRE				/WAGS
BT2826	261	IMER.	.DNQL	WVATDO	GGINII	SLDDFSF	TNIQQ.K	QDD	VHSFPANT	[ I Y R <mark>L</mark> Y L <mark>D</mark>	.PANN	1 <mark>W</mark> AGS
BT3134 BT4236	194 269							.HLKEDLMR TLLTQGERA				WIGT LWVGT
BT0981	368		M	FFLTP	GGEILI	FDREKLE	MTRINOL	KPFSDDL	PD01	LFFHLLLD	NRQQII .KDGII	WLAS
BT0138	244	ISGD.	GKET <mark>V</mark>	YIATDO	NGVHFI	S	HKDRKVVI	RRFFHDVND	KEGIRSNS	SIYSLLVD	. DRGA	/WVGH
BT3660 consensus>50	267	LIITP	Q G D K A	YI.SCV	HGFWII	DLESREQ	QYIPVLE'	r K	KGKLVSTI	EVST <b>I</b> FQ <b>D</b>	. AQGGI	LWVGT W
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BT4673		-	β <sub>7,C</sub>		B <sub>14</sub> , Bol	α2 el			β <sub>8,B</sub>	ΤŢ β8,C		
BT4673	324				· IPIS	QIT		β8,A ▼ FYSLFRDS	KGFYWFG	• ANG <mark>LI</mark> RF		
BT4673 BT2897	324 332 334	Y F G 🔁 V	NYYPK	QYTYFI	ripis	QIT .YPRT	EIDEMGK	RVREFCADH	KGF <mark>YWF</mark> GC	ANGLIRF EDKGLFH	YYP.SI	GLIE
BT4673 BT2897 BT2923 BT2860	332 334 328	YFG <mark>G</mark> V YFG <b>G</b> V LFG <b>G</b> V	NYYPK NYYPR NYLPN	QYTYFI SYTYFI RNLQFI	FIPIS OKV EKY	QIT .YPRT .YPKG.I .VPGS.S	EIDEMGK! ENSLHGK! GNSLNTK!	R <mark>V</mark> REFCADH RVREFCRDS RIRELAEDV	KGFYWFGO DGTLWIGT QGILWIGT KGNIWIGT	ANGLIRF EDKGLFH EDGGLNR EDAGISV	YYP.ST FNL.KT LNV.EN	GLIE KDFS NGVIR
BT4673 BT2897 BT2923 BT2860 BT4111	332 334 328 426	YFG <mark>G</mark> V YFG <b>G</b> V LFG <b>G</b> V HSK <b>G</b> I	NYYPK NYYPR NYLPN EKVTF	QYTYFI SYTYFI RNLQFI RNVPFS	TIPIS OKV EKY OKF	QIT .YPRT .YPKG.I .VPGS.S PVPHEYE	EIDEMGKI ENSLHGKI GNSLNTKI SLSN.I	RVREFCADH RVREFCRDS RIRELAEDV EVRSVCEDK	KGFYWFGC DGTLWIGT QGILWIGT KGNIWIGT QGNLWVGI	ANGLIRF EDKGLFH EDGGLNR EDAGISV KDGMIRL	YYP.ST FNL.KT LNV.EN YDSN	IGLIE IKDFS NGVIR NRKFI
BT4673 BT2897 BT2923 BT2860	332 334 328	YFGGV YFGGV LFGGV HSKGI NLGGI	NYYPK NYYPR NYLPN EKVTF NYMSK	QYTYFI SYTYFI RNLQFI RNVPFS QTKRFI	TIPIS OKV EKY OKF SMLT	QIT .YPRT .YPKG.I .VPGS.S PVPHEYE .SPAYLS	EIDEMGKI ENSLHGKI GNSLNTKI SLSN.I GIAGAGE	R <mark>V</mark> REFCADH RVREFCRDS RIRELAEDV	KGFYWFGCDGTLWIGT QGILWIGT KGNIWIGT QGNLWVGI DGNIWIGT	GANGLIRF TEDKGLFH TEDGGLNR TEDAGISV LKDGMIRL TQ.SGLYF	YYP.ST FNL.KT LNV.EN YDSN FNT.VT	GLIE KDFS NGVIR NRKFI TRELS
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	332 334 328 426 322 408 316	YFGGV YFGGV LFGGV HSKGI NLGGI EYSGI DGQGV	NYYPK NYYPR NYLPN EKVTF NYMSK SRISV YLYS.	QYTYFI SYTYFI RNLQFI RNVPFS QTKRFI LNEGTS	PIPIS C. KV C. KY C. KF CMLT CMLT CMLYY CMLYSIKS	QIT .YPRT .YPKG.I .VPGS.S VVPHEYE .SPAYLS .PESRE MVLSNYT	EIDEMGK! ENSLHGK! GNSLNTK!SLSN.! GIAGAGE! LFDRSNT EKIERP.	RVREFCADH RVREFCRDS RIRELAEDV EVRSVCEDK VVGPFCENK IRMLTKMP VRAIYLDD	KGFYWFGCDGTLWIGTQGILWIGTQGNLWVGDDLWVGDDLWVGDDLWVGDDLWVGDLWVGTDGDDLWVGTERTFWVG	ANGLIRF FEDKGLFN FEDGGLNR FEDAGISV KDGMIRL FQ.SGLYF FRKGGLYT FKGNGILK	YYP.ST FNL.KT LNV.EN YDSN FNT.VT FDSN IYDYEF	GLIE KDFS NGVIR NRKFI TRELS NLHSK FDKNI
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097	332 334 328 426 322 408 316 326	YFGGV YFGGV LFGGV HSKGI NLGGI EYSGI DGQGV YFGGV	NYYPK NYYPR NYLPN EKVTF NYMSK SRISV YLYS.	QYTYFI SYTYFI RNLQFI RNVPFS QTKRFI LNEGTS NI ASDQF	PIPIS CKV CKY CKF CKF CYY CYY CYY CYSIKS	QIT .YPRT .YPKG.I .VPGS.S PVPHEYE .SPAYLS .PESRE MVLSNYT .YPYGNS	EIDEMGKI ENSLHGKI GNSLNTKI SLSN.I GIAGAGE LFDRSNT EKIERP.	RVREFCADH RVREFCRDS RIRELAEDV EVRSVCEDK VGPFCENK IRMLTKMP VRAIYLDD VRAIYLDD	KGFYWFGCDGTLWIGTQGILWIGTQGNLWVGDDGNIWIGTDGDIWVGTERTFWVGTDNGLYIAT	ANGLIRF EDKGLFN EDGGLNR EDAGISV KDGMIRL 1Q.SGLYF RKGGLYT KGNGILK	YYP.ST FNL.KT LNV.EN YDSN FNT.VT FDSN IYDYEF LNS.NF	TGLIE TKDFS NGVIR NRKFI TRELS NLHSK FDKNI REITR
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	332 334 328 426 322 408 316 326 310 316	YFGGV YFGGV LFGGV HSKGI NLGGI EYSGI DGQGV YFGGV	NYYPK NYYPR NYLPN EKVTF NYMSK SRISV YLYS. VNYFIY	QYTYFI SYTYFI RNLQFI RNVPFS QTKRFI LNEGTS NI ASDQF EYEIYT	CIPIS CO.KV CO.KF CO.KF CO.YY CO.	QIT .YPR.T .YPKG.I .VPGS.S PVPHEYE .SPAYLS .PESRE MVLSNYT .YPYGNS .KVGDTE VVLNNYT	EIDEMGKI ENSLHGKI GNSLNTKI SLSN.I GIAGAGE LFDRSNT EKIERP. PNHLSGKI KEGLSSP EKIERP.	RVREFCADH RVREFCRDS RIRELAED EVRSVCEDK VVGPFCENK IRMLTKMP VRAIYLDD AVRQIINTP IVGRMTEDK VRALLLDK	KGFYWFGC DGTLWIGT QGILWIGT KGNIWIGT DGNIWIGT DGNIWIGT DGDIWVGT ERTFWVGT DNGLYIAT DNGLYIAT ERTFWIGT	OR OF THE PROPERTY OF THE PROP	YYP.ST FNL.KT LNV.EN YD.SN FNT.VT FD.SN IYDYEF LNS.NF YNR.KN	CGLIE CKDFS NGVIR NRKFI CRELS NLHSK FDKNI REITR
BT4673 BT2897 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	332 334 328 426 322 408 316 326 310 316 328	YFGGV YFGGV LFGGV HSKGI NLGGI EYSGGV YFGGV DGQGV YFGGV	NYYPK NYYPR NYLPN EKVTF NYMSK SRISV YLYS. YNYFIY NYFNP YLYS. NYYHP	QYTYFI SYTYFI RNLQFI RNVPFS QTKRFI LNEGTS NI ASDQF EYEIYT NI	PLYSIKS	QIT YPRG.I YPKG.I VPGS.S PVPHEYE SPAYLS SPAYLS .PESRE MVLSNYT YPYGNS .KVGDTE VVLNNYT .IPYKNS	EIDEMGKI ENSLHGKI GNSLNTKI GIAGAGE LFDRSNT EKIERP. PNHLSGKI KEGLSSP. EKIERP.	RVREFCADH RVREFCRDS RIRELAEDV VVGPFCENK IRMLTKMP VRAIYLDD VVRQIINTP VVRAIYLDD VVRAHLDLDK VVRALLLDK	KGFYWFGC DGTLWIG' QGILWIG' KGNIWIG' QGNLWVG' QGNLWVG' DGNIWIG' DGDIWVG' ERTFWVG' DNGLYIA' DNGLYIA' ERTFWIG' DKNLWIC' DKNLWIC'	A NGLIRF EDKGLFH EDKGLFH EDGGLNR EDAGISV KDGMIRL (Q.SGLYF RKGGLYT KGNGILK EDGGLNY CKGNGILK	YYP.ST FNL.KT LNV.EN YD.SN FNT.VT FD.SN IYDYEF LNS.NF YNR.KN IFDYEV YNP.IT	GGLIE GKDFS NGVIR NRKFI GRELS FDKNI REITR NNTYR VQKNI
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consensus>50		<b>w</b>				77		
					nsor: D2			
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BT4673		<u>β12,</u> C		Se	nsor: D2			
BT4673 BT2897 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT3957 BT3678 BT4124 BT0267 BT2391 BT0367 BT2391 BT3134 BT372 BT4137 BT3172 BT4137 BT3134 BT4236 BT3134 BT4236 BT3134	583 570 538 543 543 541 478 558 674	GGVMRI NPKDESG GGFCRF DPSGK. GGFCRF DPSGK. GGFCRF DPSGK. GGFCRF DPSGK. GGFCRF DPSGK. GGICYY NEEKD. GGLNKLISISENG GGLCSF DPKTE. SGLN LCEPEDNY GLIKYTSETSY. DGLFVL NKKGE. SGLDRY RKESN. YGVIKY ASEN. EGFYCF NEKDK. EGLVCFPSARNF. FGLTRLYQGEY. AGIFKY QEKQD. YGIYQRKIDAQ SGVLIY DPQTK. AGFA.ICYPGNDY. YGLIHY.NPATK. SGLVRVTFKER SGVLIY NPATK. SGLYLY DRNKG. GGLYLY NRNKG.	\$12,D  Q. QSIS  IFVRYDS  IFVRYDS  IFVRYDS  FFTSYN  NFVTYS  AFIEFD  RSLKYEHYG  KLKS  DFENFD  QIKRYN  OXUMA  OXUMA  TFKSYG  GREQFISYS  LFTHYY  KFHQYE  KFHQYE  KFHQYE  KFHQYE  KFHQYE  KEADYI  SFASY  QHLTFOCYS  VRTPFT  KLEADYI  KEADYI  KEADYI  KEADYI  KEADYI  KEADYI  KEANTANA  KEANTANA  KEANTANA  KRENTEN  KRENTE	## PI  FGSFSNNETILS  SSI.GLPSNVVHYLI STN.GLPSNVVYVQI IKE.GLPDDVXYVI IKE.GLPSDVLVSI S ALPNKVIYSI S ALPNKVIYSI S ALPNKVIYSI S ALPNKVIYSI S ALPNKVIYSI S ALPNKVIYSI SE.GLVNDVIKSI KKR.GLPNNVYYGI KKR.GLPNNVYYGI KKRLGSPNTIKAI TIN.GLPNNVYYGI TRACHENSVEGI TITHOFPNNTIKAI BETDGFPNNTIHAI TINGLPNNYKYTI TAQ.GLPNNSVKGI TONCALISDNIYTI IKD.GLPNNSVKGI TONCALISDNIYTI IKD.GLPNDVIYSI TELF TEVTLI REQGLLNDMIHSI REQGLLNDMIHSI REQGLLNDMIHSI REQGLLNDMIHSI TOD.GLASDLVQAN MF.DMLEEGIFNI TVKDGLCNDCIDCI TNLF TEINMV TSLF TEVSSI TSLF JEVSSI TSLF TEVSSI TSLF TSLF TEVSSI TSLF TSLF TSLF TSLF TSLF TSLF TS	TITCV KNSTU  TITCV KNSTU EEDE . KGLFU VEDK . EGQUU LEDE . EGNUU LEQU . TGDFU LIGDU . TGDFU LIGU . TGGFU LIGU . TGG	NOT THE WEST OF THE STATE OF TH	ALSO T	TTKT LEFKVYTI EAMKYYTT NDIRVETT ERFENYDE AHFRQFTI HNFFSYGF GLISRYTII NVFRSYGF EKFRNTE EKFYTDH NTVQTYRQ EKEVTET NRFINYTI KTFYNWTK KQIENYYF KKFVLFGE EKFYTENYGT GGIMDYST HVFYNYYI HVFYNYYI HVFYNYYI QKFVLFGE EKMALFGE GDVRVFTN EAFYSYLF
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		β <sub>1.3. D</sub>	В14 Д	B14 B	β <sub>14.C</sub>		$\beta_{D3,A}$ $\beta_{D3,A}$
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BT4673 BT2897 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT33049 BT3302 BT2971 BT33786 BT4182 BT1635 BT3957 BT3678 BT4124 BT0267 BT3800 BT3172 BT3800 BT3172 BT3800 BT3172 BT3800 BT3172 BT4137 BT2826 BT3134 BT4236 BT0981 BT3134 BT4236	673 684 677 808 675 762 669 675 669 673 709 677 762 660 673 776 655 655 655 655 655 652 677 802 677 802 677	RDDVPNITDSPLKQSIADSPLKECIADSPLKECIEKSILKVDL KK.L.LQLGKPIGDSPLKQSL FLTRKPDALLPASIDTGILEQSI FITRKETGILTKNITRKETGILTKNITRKETGILTKNIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDIDSPLKEDI YYT. VELQQKISPVMPQSSVIAIDSLLEKNNQRFN KIKGQVVLDSNI KINNQIILNQFIG.ESANNKLYGLEPANNKLYGLEPANNKLYGLEPANNKLYDSPLKQCIDSPLKQCIRNGQMILAVSPNDCPIQESIKYGNRIILPQAA	RYTNSTKIKYDQ TYSTRIBATE TLSDYLELQSNQ THTDRIVLRADQ THTDRIVLRYDE DDTQELVLSHDE YMADKITLSYEN AYSDEITLKYPQ KETEVLNLQYDQ SESDVMTLITHEQ SETKSITLKSWQ GEIELTHEQ TKQETLVLDYSQ AKTSDIFLSYQQ AKTSDIFLSYQQ AKTSDIFLSYQQ AKTSDIFLSYQQ AKTSDIFLSYQQ AKTSDIFLSYQQ GDFTGISVPWN. PORKGLRWQGAN DOTTGISVPWN. PDREDCLELAYGQ SYTGQLNLKHYQ GDPTGISVPWN. PDREDCLELAYGQ COMMENTALE NETKELRLKYNQ TYTSKIELPHKY LULLYNAN PFTDRIVLDNDN PFTDRIVLDNDN NHPAKISVPWN. DASIDHLELVNAN PFTDRIVLDNDN NHPAKISVPWN. DASIDHLEUVNAN PFTDRIVLDNDN NHPAKISVPWN. EAAELIQIPWNF VHTDEIVLPYDQ EKQEKLVFASDN TYTDALQLKYNQ PYTKDLELLYNQ PYTKDLELLYNQ PYTKDLELLYNQ	NLSFELS NSFSTAN SFSFROVA SFSFROVA SFSFROVA SFSFROVA SFSTRFV SFSFROVA SFSTRFV SFSVSFA S	TT  DLYSLDEKNKE ALSYQSPDMNT ALGYQAPRMNKI LLSYSTAEANQN ALSYEDPARNRN TFDYSDGGTK SVDYLNGNNCT GNFIPAGNO TSNFIPAGNO	BD3.C  TVYRLEGM.DH  LIYKLEGY.DS  LKYKLEGF.DH  LKYKLEGF.DH  LKYKLEGF.CH  LKYKLEGF.CH  LKYKLEGF.CH  LKYKLKGL.SI  LKYKLEGF.CH  LKYKLKGL.SI  LKYKLKGL.SI	KEWNFLKSNIN BEW YSVGKN. DEW LSVGESP. COW IKAATNQ. COW IFADRQR KEW ITNSENN KGW. STPSPLN. COW VNNGSES. KEW YNNGKES. COW INGKES. KEW YYLTDSR SW YTINEQN SSW IENGLST KVW. TQTSGT CKW. VQVPGNRR EEW SKPGNES. EEW STPSQDN EEW SKPGNES. EEW STPSQDN EEW SKPGNES. EEW STPSQDN EEW STPSQDN COQ IESYNP COW ITOTSGT COW INGKES. EEW STPSQDN COW ITOTSGT COW ITOTS

		Broa. F	β <sub>D3</sub> , F		Broa. a	n5		
BT4673		PD3, E	· · · · ·	TT.	-PD3,G	معققعه		
BT4673 BT2897	738 731	RITYSNLSY	NYQLIISKL	ERDGQPSNRE	HILNIRI	LPPWYYTI		SLIAWTINF
BT2897 BT2923	743	LITYSNLPY						GALFATFFY GCSVYLVLY
BT2860	736	NISYAKLPP	GQYTFQVKAT	SNDNGGQFVE	E.RSLSIEI	LPPW <mark>WFS</mark> P		CVVVSWFFW
BT4111 BT3465	867 735	SVTYTNLPK	GEYEFEVRST GEYEFEVRGS	N S D G V W V D N E N N D H O W N E K T	T.TTLRVVI	TPPWWRSS	LAYVLYVCFVL FAYFIYILLLM	LIIFVAVYI GWIVWIAWR
BT4178	821	FASFKYLNP	GTYVLHVKSC	NGAGVWNESE	E.TTLKIVI	VPPFWKTN	WAMLGYVLLLI	VTLYFTFRI
BT2628 BT3097	736 729	GVSFTNMAP		NSVFDKESDV			WAYLIYAFCLL WAYLTYVCMVL	LLAALLIRS
BT3334	735	LITYTNLNP	GKYTLVIKS.	DGDGI.ER	ARLLIRV	LPPWYETW	WAYLIYTICTV	
BT3786 BT4663	736 745	SVSFTNMAP						MIAAMLVRS GFITFVFRF
BT3049	756	TVSYSNLPQ	GKYEFLVKAR	LHNQDWSEDI	T.TSLRIHI	NPPLWIKIW NPPLWLTW		
BT3302	745	VAVFSNLSP						GVIAGAIRM
BT2971 BT0366	731 768	TVTYTNLPP	GDYTLKVRSM GSYTLOVRYT	ENKESLK.DA PDGENEGENI	A.ICLNIHV	SAPFYATI VPYFYKTV	WAYLFYVLCLT	ALMVAF VRF SVSVWOFYO
BT1734	728	TIRYTNLAP	GKYVLRVRAI	SNEDQRVMLE	EERSIDIII	AQPFWL <mark>T</mark> P	WAMILYAILIS	LIAVIILRV
BT3738 BT4182	736 820	RIVVRNLPP	SYTLQIRTV	SNEEKYKTYE	ETRSIQIII	TPPVWASM	WAMVGYAILVV WAYLIYLVFIG	LIMIIIFRV IVCYFSFHI
BT1635	717	ELVIRSLPP						
BT3951	750	EASYFSVPS		KDVFATEYKI				VLVMYVIHL
BT0958 BT3957	724 748	LIRFTNLSP	SKYKLYVRAI SYVLKVRYK	SKEEPSIVF!	J.FSTPLYI	SQP <mark>VWLNG</mark> LPPWYLST	WAIFIYMLLIV VAYVIYLLFFI	FVFSIAFRI LIAGYLIHL
BT3678	773	FAYYNNLPS	GTYTFQLKAT	NENGEWSGYV	/.RELTVVV	LPPFWATW	WAYLLYVIIVS	VIGVSIYRT
BT4124 BT0267	835 765	SASYINLPN						LFTGSIVYV LCLYLFYHR
BT2391	748	VSFTNLSA	GYYIFEVKTL	FPNNTEGDVI	ALPITI	LPHWSQTV	WFRLLLIFSVL	FLVGYIFYS
BT3800 BT3172	717 713	ASYTNLPA						
BT4137	712	ELVIRSLLP	GNYOIMASCT	AKDGSWIPD( TKDGSWVPA(	O.OLLOLTI	SPPWYKTW	WFILGCILL	.VAVIVIES
BT2826	714	SLVINYLPI	GEYTITASYY	TRDGGWSMK	Q.PILHVVV	TPPWWKTG	WFYVGLYILLG	AVAYSIVYY
BT3134 BT4236	661 739	NISYAKLPP						LIVVGTILW GGLSYFFYS
BT0981	861	IASYTNVPP	GDYVFRVETM	DEANPELVST	CTLAVTI	LPPWWLSW	WATLIYVILGI	AALYFGLRL
BT0138 BT3660	696 657	EVSYYGLSS	GTYTFCVRIP	GNEQSMAIY	VTVQP	MIPW		LIVVLVRYY LIVLASIRL
consensus>50	65 /	y.nl	G.yv	DNTTÖMNDN1	<b>l</b> .i.i	.pp	TAYVLYTAFVL way	
		-	Sensor D3				TM2	
BT4673								
BT4673	802	FRVKNRLKAERREK						
BT2897 BT2923	795	FRKRAVEKHQRAME						
BT2860	807 800	FKRRTNRKHRRQME: YKHRKEKEMEERQK:						
BT4111	931	LFTIYRLKHEVSVE						
BT3465 BT4178	799 885	WNLRVKHKYKHRME: VRNFNSLRNRINVE						
BT2628	800	FILRSKRKKQELLN	EIEKRH				Q	KNVF
BT3097 BT3334	794 795	TKARLILLMRLKTE! YNSRIKLRESLKYE!						
BT3786	800	FILRTKRKKQELLN						
BT4663	809 820	FWMRKSMEAQLEIE						
BT3049 BT3302	809	YKKKIDLESLYTLE: VIKRYRRKRNVMIE:						
BT2971	794	KTRQAALRSSLEFE	R KEKERI.					EELN
BT0366 BT1734	831 793	WRIRNLKRQKEYLHI						
BT3738	801	IMLH	KQ.					KKIS
BT4182 BT1635	883 778	IRKFNRLRNRIAVE FR.RTLKRKEDKLK						
BT3951	814	FRKYFRHERM						
BT0958	789	MILK						
BT3957 BT3678	812 837	LRKYFLQKRM AKNRILLRNALRLR						
BT4124	899	LFY IYRLRHQVDIE						QQLS
BT0267 BT2391	829 810	MKRRIQLRHELRIA						
BT3800	779	IRLRQKRME						
BT3172	774	FR.RTVKRNEEKLK	WAMKEHE.					KQTY
BT4137 BT2826	773 778	VR.KVLKRKEEKLR						
BT3134	724	YKRRKEKQLEERQK:	LFEIEKE.					KELY
BT4236 BT0981	800 925	YFRKKDQRKQIHRD: AFFMIKMKNDIYIE						
BT0138	754	VR						
BT3660	726	YIYQTKKKMKQQHKI	EE					
consensus>50								DHp
								Dub

BT46/3		
BT4673	823	ROKMAFFTNLSNELKTPLSRTIAPISQLLP.STEEVHEKQTLEEVQRNAMKINSLIHQVLNFNRIE
		A CAMPARITING SINGLE AT THE ACTUAL OF THE AC
BT2897	820	TSKIEFFTNVAHEIRTPLTLIKSPLESVLTEKELPENVKMELEIMDQNAERLLNLTNQLLDFRKTE
BT2923	832	NAKIDFFTNVAHEIRTPLTLINGPLENILLKKSVDSETREDLNIMKQNTERLLSLTNQLLDFRKTE
BT2860	825	ESKVNFFTEIAHEVRTPLTLINGPLETLQEMEIADPKIQKNLSVITQNTNRLLTLTGQLLDFQKIG
BT4111	949	DIKLRFFTNISHELRTPLTLIAGPVEQVLKNDKLPADAREQLVVVERNTNRMLRLVNQILDFRKIQ
BT3465	824	KSKIGFFINLVHEIRTPLSLIRLPLEKLQEIEH.EGKEAKYLSVIDKNVNYLLGITNQLLDFQKME
	903	EYKLVFFTNISHEFRTPLITLIQGALEKIQRVADIPRDLIHPLKTMDKSTQRMLRLINQLLEFRKMQ
BT4178		EYKLVFFTNISHEFRTPLTLIQGALEKIQRVADIPRDLIHPLKTMDKSTQRMLRLINQLLEFRKMQ
BT2628	825	ESKLRFFTNIAHEFCTPLTLTYSPCGRILSSKGLSKFVVDYVQMIQTNAERLNNLIHELIEFRRIE
BT3097	819	QSKINFFTYVSHDLKTPLTLLSPLQRLIKQKQIDNNDREKLEVIYRNANRMHYLIDELLTFSKIE
BT3334	820	QSKLRFFTNISHEFRTPLTLIVGQVETLLQVQTFTPNIYHKILGIYKNSLQLRELITELLDFRKQE
BT3786	825	ESKLRFFTNIAHEFCTPLTLIYGPCGRILSSKGLSKFVVDYVQMIQTNAERLNNLIHELIEFRRIE
BT4663	834	QMKMRFFINISHELRTPLTLILTPLQEIIN.KISDRWTRNQLEYIQRNANRLLHLVNQLMDYRRAE
BT3049	845	QERLRFYTNITHELRTPLTLILGPLEDMQKDTSLPTRQAQKLSVIHLSALRLLNLINQILEFRKTE
		QENERI INI INELIZI E IIII II GELEDII QUODUI AVANGUSVI II SALAULINI II GELEVALE
BT3302	834	ESKLRFFTNITHEFCTPLTLINGPCEKILSYSRVDSYVRKYASMIQQNALKLNALILELIEFRRLE
BT2971	819	QVKLRFFTNISHEFRTPLTLILGQIEVLMQMDLGT.TVYNRIQRIYKNAWHMRNLISELLDFRKQE
BT0366	901	LDKISFFTNITHEFRTPITLIIGPIERALKLSYNP.OVIEOLNFVERNSKYLLSLVNOLMDFRKVE
BT1734	803	LDKISFFTNITHEFRTPITLIIGFIERALKLSYNP.QVIEQLNFVERNSKYLLSLVNQLMDFRKVE DEKIHFFINTAHDIRTPLTLIKAPLEDLREKEALSKEGIANMNTAIRNVNALLRLTTNLINFERAD
BT3738	811	DEKTRFFINTAHDIRTPLTLIKAPLEEVVENHMVAEKALPHMNMALKNVNTLLQLTTNLINFERID
BT4182	901	EYKLEFFTNISHEFRTPLTLIQGALNKLINIENPPKEMQRPLKTMDKSTQRMLRLINQLLEFRKMQ
BT1635	802	EEKVRFLINISHELRTPLTLIHAPLSRILKSLSPADTQYLPLKAIYRQSQRMKNLINMVLDVRKME
BT3951	834	NISLAADSYQAREVLNTCTL <mark>I</mark> YQACDQLNDKNISSEGHAEKIGQIRESVMSLLFGCG. <mark>L</mark> GDECFRLLSSL
BT0958	799	DEKTHFFINTAHDIRTPLTLIKAPLEEFVEEETLTEIGSQRINTALRNVNALLRLSTNLINFERAD
BT3957	831	NEALPESASLNRELLNRFTSIYRSCDQLRAENLPYEQRLRIMEQVHETVIATLFRSGTLAVEELKSFFPT
BT3678	862	HAKLQFFTNITHELLTPLTIISATVDELKTQAPSHNDLYTVMNSNIQRLIRLLQQILEFRKAE
BT4124	917	NIKLRFFTDISHELRTPLTLISSPVNEVLENEDLSATAREHLTVVQKNAERMLRLMNQILDFRKIQ
BT0267	854	QTKLRYFTNISHDLLTPLTIITCLIDDAEMTNGSRISQLTMIRSNVNKLRRLLQQILDFRKVE
BT2391	842	EERENFFMNAAHELRTPLTLILAPIHDIMKSITPSDNWFDSFSRLHKNCLSLQTLVDRLLYVQKIE
BT3800	811	VERENFFTGVAHELRTPLTLILAPLQELMKQCNPLDDFYKKLQVMYKNAASLHTLVDQLLYVQKIE
BT3172	798	EEKVRFLINISHELRTPLTLIHAPLNRILKSLSSEDPQYLPLKAIYRQAQRMKNLINMVLDVRKME
BT4137	797	EEKVRFLINISHELRTPLTLTYAPLKQILKSLSPQDAQYLPIKAIYRQSQRMKNLINMVLDVRKME
BT2826	799	EEKINFLTNISHELRTPLTLICAPLKRIINQESDKQDVEKLLVPIYKQAYQMKSIIDMVLDVRKLE
BT3134	749	ESKVDFFTEIAHEVRTPLTLINGPLEAIEEMEIQEPKMKKYISVMVQNTKRLLELTGQLLDFQKIG
BT4236	837	AMRNRLLMLFVQELRTPLSLTIAPLKELQKDDAQTSQLSLQVAYRNSLRMVDACDQLLAVYGQG
BT0981	943	ANNALIMENT O'UDITAN TO THE CONTROL OF THE CONTROL O
		EMKIKFFTNISHELRTPLTLIKGPIQELKEREELSPKGLQYVDLMEKNTNQMLQLVNQILDFRKIQ
BT0138	760	
BT3660	742	
consensus>50		e.k. ff.n.he.tpltli.p.e
		DHp
		Conserved Histidine
		Conserved Histidine
D#4673		Conserved Histidine
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	888	
BT4673	888 886	DNKDSTLTLSRIETVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTTDNTLSNAV
BT4673 BT2897	886	DNKDSTLTLSRIETVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTTDNTLSNAV NKGFKUNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKITSNLFTNAL
BT4673 BT2897 BT2923	886 898	DNKDSTLTLSRIETUVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SOGFRINF.AECNITEVILKETHK.RFTSLAKORELDFILNVPVOD.FYAHVNKEAFTKIVSNLLNNAV
BT4673 BT2897 BT2923 BT2860	886 898 891	DNKDSTLTLSRIETVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTTDNTLSNAV NKGFKLNP.VECSVGSTIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIT.SNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIT.SNLLNNAV
BT4673 BT2897 BT2923 BT2860 BT4111	886 898 891 1015	DNKDSTLTLSRIETUVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTTDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKITSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKNKKELALHIPEES.IEAVVDKEAITKII.SNLLNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465	886 898 891 1015 889	DNKDSTLTLSRIETUVSFSRSTLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKII.SNLLNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.GTTSPAELKGIELVLTLPEGE.LVSMVDREKLSKII.VNLMGNAI
BT4673 BT2897 BT2923 BT2860 BT4111	886 898 891 1015 889 969	DNKDSILIILSRIEUVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNILSNAV NKGFKINP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNIFTNAL SQGFRINF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNILNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNILNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNILSNAF NGALQINI.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNILMGNAI NNKLAUSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465	886 898 891 1015 889	DNKDSILIILSRIEUVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNILSNAV NKGFKINP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNIFTNAL SQGFRINF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNILNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNILNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNILSNAF NGALQINI.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNILMGNAI NNKLAUSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	886 898 891 1015 889 969	DNKDSTLTILSRIETUVSFSRSTESVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAL NKKKMMOV.QQLNVVAFVRKIMD.NFESVAEEHHIDFIFQTEKEA.LUNWVDADKFEKIV.FNLLNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIL.VNLMGNAI NNKLALSL.EETDVTAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097	886 898 891 1015 889 969 891 885	DNKDSTLTLSRIETUVSFSRSTESVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLUVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIL.VNLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.VNLLSNAF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF
BT4673 BT2897 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT33334	886 898 891 1015 889 969 891 885 886	DNKDSTLTILSRIETVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPBEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECNITEVIKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNLLNNAV NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVTLTPEQE.LVSMVDREKLSKIL.VNLWGNAL NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF TGNREVRI.ESLNYSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786	886 898 891 1015 889 969 891 885 886	DNKDSTLTILSRIETUVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAL NKKKMMQV.QQLNVVAFVKKIMD.NFESVAEEHHIDFLFQTEKEA.LULWVADADFEKIV.FNLLNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNAI NNKLALSL.EETDVITAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKONLDKVT.YNLLSNAF TGNREVRI.ESLNYSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNDSKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF QGHMKIKV.SRNALVNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF
BT4673 BT2897 BT2923 BT29860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	886 898 891 1015 889 969 891 885 886 891	DNKDSTLTLSRIETVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNLLNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEGE.LVSMVDREKLSKIIVNLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVTYNLLSNAF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQVMWNSDKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSSKLERIM.YNLLSNAF QGHMKIKV.SRHNLWNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF TGNREVRI.EALNVSSLMKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF
BT4673 BT2897 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049	886 898 891 1015 889 969 891 885 886 891 899	DNKDSTLTILSRIE LVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTIDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKIL.SNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAL NKKMKMQV.QQLNNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGTELVLTLPEQE.LVSMVDREKLSKIL.VNLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF TGRREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF QGHMKIKV.SRNLVNFIYENYL.TLEYASSKQINFKFNKQSDD.EVWYDQKQQKVV.NNLLSNAF TGNREVRI.EALNVSSLMKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGYFELKA.KKGNAHQLQDNFL.FYDKARRHITFLSKIPEQV.SWNSDKGFLNTIII.INLISNAF LGYFELKA.KKGNAHQLQDNFL.FYDKARRHKITYTLHSELED.KEVLFDANYLELIVI.NNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT33334 BT3786 BT4663 BT3049 BT3302	886 898 891 1015 889 969 891 885 886 891 899 911	DNKDSTLTILSRIETVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKITSNLFTNAL SQGFRLNF.AECN.TEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNAV AHKFEMTM.ECVDITSLIRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKITSNLLNNAL NKKMKMQV.QQLNVAFVKKIMD.NFESVAEEHNIDFLFQTEKEA.LULWVADAPKEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKITVNLLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQNMMNFRFIPSIPS.YKMFLDKONLDKVTYNLLSNAF TGNNEVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIMYNLLSNAF QGHMKIKV.SRHNLWFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDOKOMKVV.NNLLSNAF LGNNEVRI.EALNVNSLJKKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVFELKA.KKGNAHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVFELKA.KKGNAHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVFELKA.KKGNAHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF
BT4673 BT2897 BT2923 BT29860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT3302	886 898 891 1015 889 969 891 885 886 891 900 884	DNKDSTLTISRIETVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNTLSNAV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNLLNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVTYNLLSNAF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF QQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSSKLERIM.YNLLSNAL TGNREVRI.EALNVSSLMKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVRELKA.KKGNAHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKSIITII.DNLISNAF
BT4673 BT2897 BT2923 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971 BT0366	886 898 891 1015 889 969 891 885 886 891 900 884 966	DNKDSTLTILSRIE LVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKIL.SNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKRNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAL NKKMKMOV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.ILAVUDKEAITKIL.FNLLNNAL NKKMKMOV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.ILAVUDKEAITKIL.FNLLNNAL NKKMKMOV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.ILAVUDKEAKTKIL.VNLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQVMWNSDKGFLNTII.I.NLISNAF QQHMKLKV.SRHJVNFIYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF QGHMKLKV.SRHJVNFIYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF LGVRELKA.KKGNARQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF TQNKKILCV.CKGNIVPLIHEIGL.KYKELNQKAIDFQIQIEKEE.MPLFFDANYLELIV.NNLLSNAF TQNKKILCV.CKGNIVPLIHEIGL.KYKELNQKAIDFQIQIEKEE.MPLFFDKBIITIIL.DNLISNAF TGNKILKI.KHVPVTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971 BT0366 BT1734	886 898 891 1015 889 969 891 885 886 891 900 884 966 869	DNKDSÜLTLSRIE UVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNÜLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECN.TEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNÄV AHKFEMTM.ECVD.TTSLLRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKIISNLLNNÄL NKKMKMOV.QQLNVAFVKKIMD.NFESVAEEHNIDFLFQTEKEA.ILNUWVADAKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNÄI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQNMMNFRFIPSIPS.YKMFLDKONDKVT.YNLLSNÄF MQQMEINV.RKGINKTFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNÄF TGNREVRI.ESLNVSSIVKGIAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIII.DNLISNÄF TGNKILKI.KHVPVTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLLSNÄF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFAQERNIVLKRYYRMEM.PEILYDEBAMKKV.TNLLSNÄF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFAQERNIVLKRYYRMEM.PEILYDEBAMKKV.TNLLSNÄF
BT4673 BT2897 BT2923 BT292860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT302 BT2971 BT0366 BT1734 BT3738	886 898 891 1015 889 969 881 885 886 891 900 884 966 869 877	DNKDSTLTILSRIE UVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTTDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKITSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKII.SNLLNNAL NKKMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQUNL.VSCDIKEIVNDVYS.QFTSPAELKGTELVLTLPEGE.LVSMVDREKLSKII.VNLMGNAI NNKLALSL.EETDVIAFIYEIFL.SFGDVAEQKMNNFRFIPSIPS.VKHFLDKGNLDKVT.YNLLSNAF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSSKLERIM.YNLLSNAF QGHMKIKV.SRHNLVNFLYENYLLYENYLLEFLEXASSQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF TGNREVRI.EALNVSSLMKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVFELKA.KKGNAHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVJFDANYLLLIV.NNLLSNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNAF TGNKILKI.KHVPYTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLISNAF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFAQERNIVLKRYYRMEM.PEILYDEEAMRKVV.TNLLSNAF
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971 BT0366 BT1734	886 898 891 1015 889 969 891 885 886 891 900 884 966 869	DNKDSÜLTLSRIE UVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNÜLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECN.TEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNÄV AHKFEMTM.ECVD.TTSLLRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKIISNLLNNÄL NKKMKMOV.QQLNVAFVKKIMD.NFESVAEEHNIDFLFQTEKEA.ILNUWVADAKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNÄI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQNMMNFRFIPSIPS.YKMFLDKONDKVT.YNLLSNÄF MQQMEINV.RKGINKTFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNÄF TGNREVRI.ESLNVSSIVKGIAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIII.DNLISNÄF TGNKILKI.KHVPVTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLLSNÄF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFAQERNIVLKRYYRMEM.PEILYDEBAMKKV.TNLLSNÄF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFAQERNIVLKRYYRMEM.PEILYDEBAMKKV.TNLLSNÄF
BT4673 BT2897 BT2923 BT292860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT302 BT2971 BT0366 BT1734 BT3738	886 898 891 1015 889 969 881 885 886 891 900 884 966 869 877	DNKDSTLTILSRIE TVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAV NKKMKMOV.QQLNVVAFVRKIMD.NFESVAEEHNIDFIFQTEKEA.IULWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKILVNLMGNAI NNKLALSL.EETDVTAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF TGNREVRI.ESLNYSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF QQMMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF QGHMKIKV.SRHNLVNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF LGVEELKA.KKGNAHQLIQDNFL.FYDKLARHKRITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF LGVEELKA.KKGNAHQLIQDNFL.FYDKLARHKRITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF TQNKKLCV.CKGNIVPLHEBIGL.KYKELNQKATDFQIQIEKEE.NHFFPTSTITIIL.DNLISNAF TGNKILKI.KHVPVTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLLSNAF QGYLKLRV.EEQNLVTFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDFIOLQKVI.FNLLSNAF VSSELYT.SEHELMTFMTEIFN.AFQPYANIKHNIFTYESNFRY.MNVWFDEEKMESIL.KNILSNAL VYSSELYT.SEHELMTFMTEIFN.AFQPYANIKHNIFTYESNFRY.MNVWFDEEKMESIL.KNILSNAL VYSSTLYV.SEYELNSYMNDVCA.TFRKYAEMKNITFYSSNFRY.MNVWFDEKKMESIL.KNILSNAL
BT4673 BT2897 BT2923 BT292860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT33049 BT33049 BT33049 BT3736 BT1734 BT3738 BT4182 BT1635	886 898 891 1015 889 969 891 886 891 899 911 966 869 877 967	DNKDSÜLTISRIE UVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNÜLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECN.TEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNÄV AHKFEMTM.ECVD.TTSLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNLLNNÄL NKKKMQV.QQLNVVAFVKKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNÄI NNKLÄLSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKONLDKVT.YNLLSNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNÄF GGNHKIKV.SRHNLVNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKOMKVV.NNLLSNÄF LGVFELKÄ.KKGNÄHQLIQDNFL.FYDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNÄL LGVFELKÄ.KKGNÄHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDÄNYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKÄIDFQIQIEKEE.MPLFFDKEIITIII.DNLISNÄI TGNNEIKKI.KHVPVTEQIRTIAE.SFGELÄESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLLSNÄF GGYLKLRV.EEQNLVIFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPIQLQKVI.FNLLSNÄF SGKLEIVK.TRGNEIKFIDSLIT.PFEVFÄQERNIVLKRYYRMEM.PEILYDEAMRKVV.TNLLSNÄF SGKLEIVK.TRGNEIKFIDSLIT.PFEVFÄQERNIVLKRYYRMEM.PEILYDEAMRKVV.TNLLSNÄF SGKLEIVK.TRGNEIKFIDSLIT.FFEVFÄQERNIVLKRYYRMEM.PEILYDEAMRKVV.TNLLSNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKEMESILI.KNIISNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKEMESILI.KNIISNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKEMESILI.KNIISNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKEMESILI.KNIISNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKEMESILI.KNIISNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKEMESILI.KNIILSNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDEKEMESILI.KNILSNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDEKEMESILI.KNILSNÄL VYSSELYI.SEHELNSEHUS.FFRYPSERSKNIPTI.KIVSFDKOKCEIII.SNILLINÄL
BT4673 BT2897 BT2923 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT4182 BT4182	886 898 898 899 969 891 885 886 891 900 884 966 869 877 967 868 903	DNKDSTLTILSRIE LVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAL NKKMKMOV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGTELVLTLPEQE.LVSMVDREKISKIL.VNLMGNAI NNKLALSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EUVWFSPSKLERIM.YNLLSNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EUVWFDQXQQKVV.NNLLSNAF TGNREVRI.ESLNVSSLMKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVFELKA.KKGNAULIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKAIDFQIQIEKEE.MPLFFDKEITIIIL.DNLISNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKAIDFQIQIEKEE.MPLFFDKEITIILI.DNLISNAF QGYLKLRV.EEQNLVTFRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPIQLQKVI.FNLLSNAF YGSGKLEIVK.TRGNITKFIDSLIT.PFEVFAQERRIVLKRYYRMEM.PEILYDEEAMRKVV.TNLLSNAF VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDEEKMESIL.KNILSNAL VYSSELYT.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDEEKMESIL.KNILSNAL VYSSELYT.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDEEKMGSIL.KNILSNAL VYSSELYT.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDEEKMGSIL.KNILSNAL KNKLALSL.EETDVIAFLYEIFL.SFKDTSESKNIDFSFEPSQPA.YKMFIDKGNLDKVT.YNLLSNAF
BT4673 BT2897 BT2923 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT1738 BT4182 BT1635 BT4635 BT1635 BT3951	886 898 899 969 885 886 891 906 869 877 967 868 903 865	DNKDSTLTILSRIETUVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVITDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIL.SNLLNNAV NKKKMMQV.QQLNVVAFVKKIMD.NFESVAEEHHIDFIFJGTEKEA.LHUNWDADKFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKII.VNLMGNAI NNKLALSL.EETDVITAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKONLDKVT.YNLLSNAF TGNREVRI.ESLNNSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNDSKGFLNTII.INLISNAF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF QGHMKIKV.SRHNLVNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAL LGNREVRI.EALNNSSLMKNTAK.TFVDMAKSRNITFLSKIPEQV.SWNSDKGFLNTII.INLISNAF LGVFELKA.KKGNAHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEITIIIL.DNLISNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEITIIIL.DNLISNAF QGYLKIRV.EEQNLVTFTRQIYM.CFYEYAQKKRITYRFDSVEET.ISVWFDPIQLQKVI.FNLLSNAF QGYLKIRV.EEQNLVTFTRQIYM.CFYEYAQKKRITYRFDSVEET.ISVWFDPIQLQKVI.FNLLSNAF VGSKLEIVK.TRGNILKFIDSLIT.FPEVFAQERRIVLKRYYRMEM.PEILYDEEARKKVV.NNLLSNAL VYSSELYI.SEHEUNTFMTEIFN.AFQYANIKHINFTYESNFRY.MNVWFDKKMESIL.KNILSNAL VYSSELYI.SEHEUNTFMTEIFN.AFQYANIKHINFTYESNFRY.MNVWFDKKMESIL.KNILSNAL VYSSELYI.SEPELNTYMDVCA.TFRKYAEMKRVRFVYESNFPY.LNVWFDKKMGSIL.KNILSNAL VYSSELLI.QPHPLNEWIEHVSQ.DFVSEGEAKNIQIHYRLDPRI.KIVSFDKDKCEIIL.SNLLINAL HFSVSGRLLSLETEDVIAFLYEIFL.FRSYSNRIKHIDFTYKSDFNY.LNVWFDKKMOSIL.KNLLSNAL
BT4673 BT2897 BT2923 BT292860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT4182 BT4182 BT4182 BT4182 BT3955	886 898 899 891 885 886 891 900 884 966 869 877 868 903 865 903	DNKDSÜLTISRIE UVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKIGVIIDNÜLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECN.TEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNÄV AHKFEMTM.ECVD.TISLIRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNLLNNÄV NKKMKMQV.QQLNVVAFVKKIMD.NFESVAEEHNIDFLFQTEKEA.LNLVVDADKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNÄI NNKLÄLSL.EETDVIAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKONLDKVTYNLLSNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIMYNLLSNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIMYNLLSNÄF GGNHKIKV.SRHNLVNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKOMKVV.NNLLSNÄF LGVFELKA.KKGNÄHQLIQDNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIII.DNLISNÄI TGNNEIKKI.KHVPVTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FWNTDVSCLSKIV.NNLLSNÄF OGYLKLRV.EEQNLVIFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPIQLQKVI.FNLLSNÄF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFÄQERRIVLKRYYRMEM.PEILYDEAMRKVV.TNLLSNÄF SGKLEIVK.TRGNFLKFIDSLIT.PFEVFÄQERRIVLKRYYRMEM.PEILYDEAMRKVV.TNLLSNÄF VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKKMESIL.KNILSNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKKMESIL.KNILSNÄL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFRY.MNVWFDEKKMESIL.KNILSNÄL VYSSELKI.QPHPLNEWIEHVSQ.DFVSEGEAKNIQIHYRLDFRI.KIVSFDKOKCEIIL.SNILLNÄL HFSVSGRL.SLLKMAEEVLQVLE.KEGHDVSSIQLDIPENFTYPAYKNALRCMILYFFSYLYISSC VYSSELRI.SEYELNTYMVELCN.SFRSYANIKHIDFTYKSDFNY.LNVWFDKKKMESIL.KNLLSNÄL HFSVSGRL.SLLKMAEEVLQVLE.KEGHDVSSIQLDIPENFTYPAYKNALRCMILYFFSYLYISSC
BT4673 BT2897 BT2923 BT2923 BT29260 BT41111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT1734 BT1738 BT4182 BT1635 BT41635 BT3957 BT3957	886 898 891 1015 889 969 881 885 886 889 911 966 869 877 967 868 903 865 901	DNKDSILIILSRIE LVSFSRSIFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNILSNĀV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKILSNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNĀV AHKFEMTM.ECVDITSLLRETVĀ.RFEPTISKKNKELĀLHIPEES.IEĀVVDKEAITKIISNLLNNĀL NKKMKMOV.QQLNVVĀFVKKIMD.NFESVĀEĒHNIDFLFQTEKEĀ.LNLWVDĀDKFĒKIV.FNLLSNĀF NGĀLQLNL.VSCDIKĒLVNDVYS.QFTSPĀELKGIELVLTLPEQE.LVSMVDĀBKLSKIIVNLMGNĀI NNKLALSL.EETDVIĀFLYEIFL.SFGDVĀEQKNMNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNĀF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKBIDFIVSLĒETD.EEVWFSPSKLERIM.YNLLSNĀF QQHMKIKV.SRHJUNFLYENYLLFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNĀF QQHMKIKV.SRHJUNFLYENYLLFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNĀF LGVBELKĀ.KKGNĀRQLIQDNFL.FYDKLĀRHKKITYTLHSELED.KEVLFDANYLELLIV.NNLLSNĀF TQNKKICV.CKGNIVPLHHEIGL.KYKELNQKAIDFQIQIEKEE.MPLFFDKBITIII.DNLISNĀF TQNKKICV.CKGNIVPLHHEIGL.KYKELNQKAIDFQIQIEKEE.MPLFFDKBITIIILDNLISNĀF QQKIKLKI.KI.KHVPVTEQIRTIĀE.SFGELĀESRKLNYRLQIEDGGV.FWNTDVSCLSKIV.NNLLSNĀF QQYKKLRV.EEQNLVTFRQIYM.CFYEYAQKKEILYFTDSVEET.ISVWFDPIQLQKVI.FNLLSNĀF VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDKEKMESIL.KNILSNĀL VYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHNFTYESNFRY.MNVWFDKEKMESIL.KNILSNĀL KNKLALSL.EETDVIAFLYEIFL.SFKDTSESKNIDFSFEPSQPĀ.YKMFIDKGNLDKVT.YNLLSNĀF VGSESKLEIV, SEPELNSYMNDVCA.TFRKYAEMKRVFYYESNFFY.LNVWFDKKMGSIL.KNILSNĀL KNKLALSL.EETDVIAFLYFILSF.SFKDTSESKNIDFSFEPSQPĀ.YKMFIDKGNLDKVT.YNLLSNĀF VGSESKLLI.QPHP.NEWIEHVSQ.DFVSEGEĀKNIQIHYRLDPRI.KIVSFDKOKCEIIL.SNĀL KNKLALSL.EETDVIAFLYEIFL.SFKDTSESKNIDFSFEPSQPĀ.YKMFIDKGNLDKVT.YNLLSNĀF VGSESKLLI.QPHP.NEWIEHVSQ.DFVSEGEĀKNIQIHYRLDPRI.KIVSFDKOKCEIIL.SNĀL KNKLALSL.EETDVIAFLYEIFL.SFKDTSESKNIDFSFEPSQPĀ.YKMFIDKGNLDKVT.YNLLSNĀL KNKLALSL.EETDVIAFLYEIFL.SFKDTSESKNIDFSFEPSQPĀ.YKMFIDKGNLDKVT.YNLLSNĀL KNKLALSL.EETDVIAFLYEIFL.SFKDTSESKNIDFSFEPSQPĀ.YKMFIDKGNLDKVT.YNLLSNĀL KNKLALSL.EETDVARFWKLEGLED.SFREYANIKHIDFTYKSDFNY.LNVWFDSKMMSIL.KNLISNĀL KNKLALSL.EETDVARFWKLEGLEGLEVLHVLE.GQGVDISSVKRAIPEHF.VYPYVKNALRCKLYFSVYLYIGGV
BT4673 BT2897 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT41635 BT41635 BT3957 BT3957 BT3957 BT3678 BT3957	886 898 1015 889 9891 885 891 900 884 869 877 868 901 925 901 925	DNKDSTLTILSRIETUVSFSRSTFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNTLSNAV NKGFKLNP.VECSVGSITRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKIISNLFTNAL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIVSNLLNNAV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKNKELALHIPEES.IEAVVDKEAITKIISNLLNNAV AHKFEMTM.VV.QQLNVVAFVKKIMD.NFESVAEEHNIDFLFQTEKEA.ILNUWDADAFFEKIV.FNLLSNAF NGALQLNL.VSCDIKEIVNDVYS.QFTSPAELKGIELVLTLPEQE.LVSMVDREKLSKIIVNLMGNAI NNKLALSL.EETDVITAFLYEIFL.SFGDVAEQKNMNFRFIPSIPS.YKMFLDKONLDKVT.YNLLSNAF MQQMEINV.RKGNIKHFLEEISH.IFDIVSKEKRITFLSKIPEQV.MWNSDKGFLNTII.INLISNAF MQQMEINV.RKGNIKHFLEEISH.IFDIVSKEKEIDFIVSLEETD.EEVWFSPSKLERIM.YNLLSNAF QGHMKIKV.SRNNLVNFLYENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMQKVV.NNLLSNAF LGVFELKA.KKGNAHQLTQDNFFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEITIIIL.DNLISNAF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEITIIIL.DNLISNAF QGYLKIRV.EEQNLVTFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPTQLQKVVI.NNLLSNAF QGYLKIRV.EEQNLVTFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPTQLQKVVI.NNLLSNAF VYSSELYI.SEHE.NTFMTEIFN.AFQPYANIKHINFTYESNFPY.MNVWFDKKMESIL.KNILSNAF VYSSELYI.SEHE.NTFMTEIFN.AFQPYANIKHINFTYESNFPY.MNVWFDKKMESIL.KNILSNAL VYSSELYI.SEPLINTYMUSIFF.FYEVFAQERNIVLKRYYRMEM.PEILYDBEAMKKVVI.NNLLSNAL VYSSELYI.SEPLINTYMUSIFF.FYENTSSKNIDFSFEPSQPA.YKMFIDKCNLDKVTNLLSNAF VGESKLLI.QPHPLNEWIEHVSQ.DFVSEGEAKNIQIHYRLDPRI.KIVSFDKDKCEIII.SNLLINAL HFSVSGRL.SLKMAREVLFUELE.GQGVDISSVKLAIPEHFVYPYKNALRCKILYFSYLYISSC VYSSELRI.SEYELNTYMNEICN.SFRSYANIKHDFTYKSDFNY.LVWWFDKKMDSIL.KNLLSNAL EYATICCM.CMKELSIEVLHVLE.GQGVDISSVKLAIPEHFVYPYKNALRCKILYFSYLYISSC TGNLKLRV.SEGDIAAFVKNAAE.SFQPLVKKRKITHFFFLODES.MIGGYFDMDKLDKII.,NNLLSNAL EYATICCM.CMKELSIEVLHVLE.GQGVDISSVKLAIPEHFVYPYKNALRCKILYFSLISNAF
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BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172 BT4127 BT41287 BT4124 BT0267 BT2391 BT3814 BT4236 BT3134 BT4236 BT3134 BT4236 BT0981	886 898 891 1015 889 989 911 906 884 966 869 903 865 903 865 903 865 908 877 908 887 908 885 911 908 885 911 909 911 909 911 909 911 909 909 909	DNKDSLLTLSRIELVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTLDNLLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIL.SNLFTNÄL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNÄV AHKFEMTM.ECVDITSLLRETVA.RFFPIISKKNKELAHIPEES.IEAVVDKEAITKIL.SNLLNNÄV NKHMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIMDVYS.QFTSPAELKGIELVLTIPEQE.LVSMVDREKLSKIL.VNLMGNÄI NNKLALSL.EETDVIAFILVEIFL.SFGDVAEQKMNNFRFIISIPS.YKMFLDKGNLDKVT.YNLLSNÄF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKELDFIVSLEETD.EVWFSPSKLERIM.YNLJSNÄF QGHMKIKV.SRHNLVNFLVENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMGKVV.NNLSNÄF TGNREVRI.EALNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.SMNSDKGFLNTII.INLISNÄF TQNKELKÄ.KKGNAHQLLODNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNÄF QGYLKLRV.BEQDLAVTFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPIQLGKVI.FNLLSNÄI VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUNTYMEIFIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELNTYMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKKEKERVY.VVILSNÄR VGESKLLI.QPPLLNWWINGLONGE.CE.FVELONGERCH.SKUNGERLE.SH.NV
BT4673 BT2897 BT2923 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT16355 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172 BT4137 BT2826 BT3134 BT4236 BT0981 BT3134 BT4236 BT0981 BT0138	886 898 891 1015 889 969 891 886 891 900 886 869 877 865 903 865 903 865 901 1009 817 901	DNKDSLLTLSRIELVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTLDNLLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIL.SNLFTNÄL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNÄV AHKFEMTM.ECVDITSLLRETVA.RFFPIISKKNKELAHIPEES.IEAVVDKEAITKIL.SNLLNNÄV NKHMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIMDVYS.QFTSPAELKGIELVLTIPEQE.LVSMVDREKLSKIL.VNLMGNÄI NNKLALSL.EETDVIAFILVEIFL.SFGDVAEQKMNNFRFIISIPS.YKMFLDKGNLDKVT.YNLLSNÄF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKELDFIVSLEETD.EVWFSPSKLERIM.YNLJSNÄF QGHMKIKV.SRHNLVNFLVENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMGKVV.NNLSNÄF TGNREVRI.EALNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.SMNSDKGFLNTII.INLISNÄF TQNKELKÄ.KKGNAHQLLODNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNÄF QGYLKLRV.BEQDLAVTFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPIQLGKVI.FNLLSNÄI VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUNTYMEIFIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELNTYMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKKEKERVY.VVILSNÄR VGESKLLI.QPPLLNWWINGLONGE.CE.FVELONGERCH.SKUNGERLE.SH.NV
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3736 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT3957 BT3678 BT3678 BT3957 BT3678 BT4124 BT0267 BT2391 BT0267 BT2391 BT3800 BT3172 BT4137 BT3826 BT3172 BT4137 BT3826 BT3172 BT4137 BT2826 BT3134 BT3134 BT3134 BT3134 BT0138 BT0138 BT0138 BT0138 BT0138 BT0138	886 898 891 1015 889 989 911 906 884 966 869 903 865 903 865 903 865 908 877 908 887 908 885 911 908 885 911 909 911 909 911 909 911 909 909 909	DNKDSLLTLSRIELVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVTLDNLLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGIELKVEIPEEE.LLASVDKEALTKIL.SNLFTNÄL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNÄV AHKFEMTM.ECVDITSLLRETVA.RFFPIISKKNKELAHIPEES.IEAVVDKEAITKIL.SNLLNNÄV NKHMKMQV.QQLNVVAFVRKIMD.NFESVAEEHNIDFLFQTEKEA.LNLWVDADKFEKIV.FNLLSNÄF NGALQLNL.VSCDIKEIMDVYS.QFTSPAELKGIELVLTIPEQE.LVSMVDREKLSKIL.VNLMGNÄI NNKLALSL.EETDVIAFILVEIFL.SFGDVAEQKMNNFRFIISIPS.YKMFLDKGNLDKVT.YNLLSNÄF TGNREVRI.ESLNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.MWNSDKGFLNTII.INLISNÄF MQQMEINV.RKGNIMHFLEEISH.IFDIVSKEKELDFIVSLEETD.EVWFSPSKLERIM.YNLJSNÄF QGHMKIKV.SRHNLVNFLVENYL.LFLEYASSKQINFKFNKQSDD.IEVWYDQKQMGKVV.NNLSNÄF TGNREVRI.EALNVSSIVKGIAK.TFVEMAKSRNITFLSKIPEQV.SMNSDKGFLNTII.INLISNÄF TQNKELKÄ.KKGNAHQLLODNFL.FYDKLARHKKITYTLHSELED.KEVLFDANYLELIV.NNLLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEIITIIL.DNLISNÄF QGYLKLRV.BEQDLAVTFTRQIYM.CFYEYAQKKEITYRFDSVEET.ISVWFDPIQLGKVI.FNLLSNÄI VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.MVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELLNTFMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUNTYMEIFIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELNTYMTEIFN.AFQPYANIKHNFTYESNFTY.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKEKMESIL.KNLLSNÄL VYSSELYI.SHELUTTMTEIFN.AFQPPYANIKHNFTYEDRFT.NVWFDKKEKERVY.VVILSNÄR VGESKLLI.QPPLLNWWINGLONGE.CE.FVELONGERCH.SKUNGERLE.SH.NV
BT4673 BT2897 BT2923 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT16355 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172 BT4137 BT2826 BT3134 BT4236 BT0981 BT3134 BT4236 BT0981 BT0138	886 898 891 1015 889 969 891 886 891 900 886 869 877 865 903 865 903 865 901 1009 817 901	DNKDSLLILSRIELVSFSRSLFSVYEEDKRFTFHFEANKAK.IYADMDAIKLGVIIDNLLSNÄV NKGFKLNP.VECSVGSIIRSVYK.RFTTLVNQKGTELKVEIPEEE.LLASVDKEALTKIISNLFTNÄL SQGFRLNF.AECNITEVLKETHK.RFTSLAKQRELDFILNVPVQD.FYAHVNKEAFTKIV.SNLLNNÄV AHKFEMTM.ECVDITSLLRETVA.RFEPTISKKNKELALHIPEES.IEAVVDKEAITKIISNLLNNÄL NKKMKMQV.QQLNVVAFVAKKIMD.NFESVAEEHNIDFLFQTEKEA.LNIWVDADKFEKIV.FNNLSNÄF NGALQLNL.VSCDIKEIMDVYS.QFTSPAELKGIELVLTLPEQE.LVSNVDREKLSKIIVNLMGNÄI NNKLALSL.EETDVIAFLVEIFL.SFGDVAEQKMNNFRFIPSIPS.YKMFLDKGNLDKVT.YNLLSNÄF TGNREVRI.ESLNVSSIVKGIÄK.TFVEMÄKSRNITFLSKIPEQVMWNSDKGFLNTIIINLISNÄF MQMMEINV.RRGNIMHFLEEISH.IFDIVSKEKBIDFIVSLEETD.EEVMFSPSKLERIM.YNLLSNÄF QGHMKIKV.SRHNLVNFLVENH.LFLEYASSKOINFKFNKOSDD.IEVMYDQKQMCKVV.NNLSNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEITTIIL.DNLISNÄF TQNKKLCV.CKGNIVPLIHEIGL.KYKELNQKKAIDFQIQIEKEE.MPLFFDKEITTIIL.DNLISNÄF TGNKKLKI.KHVPVTEQIRTIAE.SFGELAESRKLNYRLQIEDGV.FMNTDVSCLSKIV.NNLLSNÄF GGYLKIKV.SERDLVFTRGVIYM.CYTYPAQEKKELTYRFDSVEET.ISVMFDFIQLQKVV.INNLSNÄR KYSSELYI.SEHELNTFMTEIFN.AFQPYANIKHINFTYESNFFY.MNVWFDKEKMESIL.KNILSNÄL VYSSTLYV.STYLENSYMDDVCA.TFRKYAEMKRVRFVYESNFDY.LNVWFDSDKMGSIL.KNILSNÄL KNKLALSL.EETDVIAFLVEIFL.SFKDTSESKNIDFSFEPSQPA.YKMFIDKSOLLKVT.YNLLSNÄF VGBSKLLI.QPHPLNEWIEHVSQ.DFVSEGEAKNTQIHYRLDPRI.KIVSFDKDKKGEILL.KNILSNÄL HFSVSGRL.SLLKMAEEVLQVLE.KECHDVSSIQLDIPENFTYPAYKNALRCILYFSYLYISGC VYSSELKI.GPYPLNEWIEHVSQ.DFVSEGEAKNTQIHYRLDPRI.KIVSFDKDKKGELIL.KNILSNÄL HFSVSGRL.SLLKMAEEVLQVLE.KECHDVSSIQLDIPENFTYPAYKNALRCILYFSYLYISGC VYSSELKI.GPYPLNEWIEHVSQ.DFVSEGEAKNTQIHYRLDPRI.KIVSFDKDKKGELIL.KNILSNÄL HFSVSGRL.SLLKMAEEVLQVLE.KECHDVSSIQLDIPENFTYPAYKNALRCILYFSYLYISGC VYSSELKI.GPYPLNEWIENVSQ.DFVSEGEAKNVRIRTYLDPRI.KIVSFDKDKKGEIIL.KNILSNÄL HFSVSGRL.SLLKMAEEVLQVLE.KECHDVSSIQLDIPENFTYPAYKNALRCILYFSYLYISGC VYSSELKI.GPYPLNEWIENVSQ.DFTSEGEAKNVRIRTYDLDPRI.KIVSFDKDKCEIIL.SNLLNNÄL HFSVSGRL.SLLVMAEEVLQVLE.KECHDVSSIQLDIPENFTYPAYKNALRCILYFSYLVISGC VYSSELKI.GPYPLNEWISSOD.F.GVONSE.PFQMAEIKKURFFFFLOUNDERSKASAV.QNLLSNÄF SGNMKLSV.SKSDVISFIDDVCKIHFFPLMRKKNQTFTFLTEDRH.LMAYFDDKKEKIF.F.NLSNÄR SGNMKLSV

BT4673

BT4673		
BT4673	951	KFTSEGGSTRLSTFYRQETGLLETCVSDTGAGTPQQDIPYIFQRFFQSPHSGSKE.GTGIG
BT2897	951	KYAQTYAYLSLSVDEAGKEFTIVMSNDGKIIPIEMRENIFRPFVQYRDG.KDIVPGTGIG
BT2923 BT2860	963 956	KYAETYVHVYLEINGTGENKMFYIRSVNDGVIIPNEMKEEIFKPFVRFNEK.EDGKVTTGTGIG KYARHSICVELQRETEAFLVRVTSDGDKIPAEISQQIFEPFYQAAKK.DSASFGVGIG
BT4111	1080	KYTPNGKMITVFIR EDEGTVSWGVQDQGIGIAENIKKKSLFVRFENLVDK NIFNQA.SSGIG
BT3465	954	KYARTRIDLKLVTTDAGYEIYVSDDGRGVPDAQKGKIFEAFYQMPDD.KVA.TATGTGIG
BT4178	1034	KYTPSNGTIILSVTVDEVKKTLQIQVADTGVGIPKEKQNELFKRFMQSSFSGD.SIGVG
BT2628 BT3097	955 950	KYTPDGQSIKIEVDTSGENMLTLRVANEGSTIKEKDFQYIFNRYAILDNFENQDEKNFS.RNGLG KYTOPGDYVKLSAKLLKKDSENFIEISVKDSGRGIPKEMKDKIFDSYFQVEKK.DHREGFGLG
BT3334	951	KHTKAEDTIISINVSOEDKYVIIIEIKDTGTGIAAAEIDKIFDRFYOTERL.DSLNTGAGTGIG
BT3786	955	KYTPDGKSIKIEVDTNDENLLVLRVANEGSTIKEEDFQYVFNRYAILDSFENQDEKNFS.RNGLG
BT4663	964	KYTESGQSITVTLKEENGWLLLQVSDTGIGIPINKQGKIFERFYQIESEHVGSGIG
BT3049 BT3302	976 964	KYTEQGK.ITLSLYPTTRNGVTYTEIKVSDTGYGISAEALPHVFDRYYQESGK.HQASGTGIG KYTPENGSITVELRIEGEQ.LCIRVSNTGKGIKEADLTKIFDRYKILDNFEVQNKNGISPRNGLG
BT2971	949	KYTSNKGNITVEWRKVASQAVWSVCDTGGGIPVEHISKIFDRFYQTDNA.SSSSSFTL.GTGIG
BT0366	1031	KFTPNGGTVSLYLSALFAKDSEKETLYICVKDSGSGIPEEDLNRIFNRFYQSQNQVKYPVYGQA.GTGIG
BT1734	934	KYTPENGNVQIFVSENNDSWSVEVKDTGIGIPASEQKKLFKLHFRGSNA.INSKVT.GSGIG
BT3738 BT4182	942 1032	KYTPENGSVCICACEEGNTWSIEVKDTGIGIPSSEQKKLFRNCFRGSNV.VNL.KVT.GSGIGKYTPSNGKIIFKIDIQEDKQQLRIQVIDNGIGIPKEKRSELFKRFMQSSFSHS.SVGVG
BT1635	933	KHSPQDTEITITSELLPEEKRVRISITDQGCGLQQVDTQKLFTRFYQGMGE.QSGTGIG
BT3951	965	KTEKVSVTV.TEEAGCMMLTFVSPDETVKGLKDVLSGEELLSIR.AKDSDD
BT0958	930	KYTPENGIVSVSISETKDSWKLEVKDTGIGIPANEQNKLLKMHFRGTNG.INAKIT.GSGIG
BT3957 BT3678	963 990	KHKSDIVVDV.KEEEGRMLLQFSAVDDTLKELYKQLSGSEEEGRRDSKETEE KYNKEDGFIQVSLS.YDETDKDFILLKIKDNGKGISKEKQKNLFKRFYEG.DYRKFNTI.GTGIG
BT4124	1048	KYTPAEKAITIEVTKQTDKVTISVVDEGIGIEPTKLRTLFQRFETLAQQNML.QP.SSGIG
BT0267	983	KYTANGGNIKLIVDSYWESENHHLRIQVVDTGEGIAPADLENVFKRFYTINKG.DESESNGIG
BT2391	973	KYTSQNGRIELAVSEAEIDGRPYCLVTVSDNGVGIPDDLQQHVFDSFVTGKRIPQYST.SIGLG
BT3800 BT3172	942 929	KYTPSGGRVLLSVSHLMKSGQGYCRITVSDTGAGIPEWLQKHAFESFVTGDNVPEMST.KAGIG KHSPQDTEITIASELLPETGRVRISIIDQGCGLKQVDTHKLFTRFYQGTGE.QSGTGIG
BT4137	928	KHSPQHTEITIVSELISERKRVRVSVIDQGSGLENVDTRKLFTRFYQGTKE.QNGTGIG
BT2826	930	KFSESGTTTTLLITLLSQEKDWVRISVRDEGMGLNMVDTDSLFSSFYQGGHE.KGGSGIG
BT3134 BT4236	880 967	KYASQNVLVELEKGEDSFTIRVTSDGNKIPAEVSQYIFEPFYQVDRK.EKPRNGVGIG THTHYAGTVSLSVCEVVNDNMHYVCLIVEDDGKERVRTVEQLMSENEGSERDMS.AAQMG
BT0981	1074	KFTPSGGSIYVTTGLTDDGKSCYVRVEDNGVGIPQNKLSEIFERFSQGENANNPHYQ.GTGIG
BT0138	795	EAECK
BT3660	764	LIRSEKKS
consensus>50		kyf.fgig
		Kinase Domain
BT4673		
BT4673 BT4673	1011	LYLVKTYTELHGGSIDGVTSEKGKGTSIGLSIP
BT4673 BT2897	1010	LALARSLAELHQ <mark>GTL</mark> T.MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE
BT4673 BT2897 BT2923	1010 1026	LALARSLAELHOGTLT.MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRELALSRSLAELHRGNLT.MLESE.EANVFCLSLPVEQDSV.IKLAS.EH
BT4673 BT2897 BT2923 BT2860	1010 1026 1013	LALARSLAELHQGTLT. MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE. LALSRSLAELHRGNLT.MLESE.EANVFCLSLPVEQDSV.IKLAS.EH. LPLARSLASLHRGKLY.LDSEH.EDNSFVLSVPLVENTL.RSLPK.LE.E.
BT4673 BT2897 BT2923	1010 1026 1013 1140 1012	LALARSLAELHQGTLT.MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRELALSRSLAELHRGNLT.MLESE.EANVFCLSLPVEQDSV.IKLAS.EHLPLARSLASLHRGKLY.LDSEH.EDNSFCLSVPLVENTL.RSLPK.LEELSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.APLSMERIVDIANSLAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178	1010 1026 1013 1140 1012 1092	LALARSLAELHQGTLT .MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE.  LALSRSLAELHRGNLT .MLESE.EANVFCLSLPVEQDSV.IKLAS.EH.  LPLARSLASLHRGKLY.LDSEH.EDNSFVLSVPLVENTL.RSLPK.LE.E.  LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS  LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE.  LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFLIPGNV.
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	1010 1026 1013 1140 1012 1092 1019	LALARSLAELHQGTLT .MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRELALSRSLAELHRGNLT .MLESE.EANVFCLSLPVEQDSV.IKLAS.EHLELSLEVEARS.EHLELSLEVEARS.EHLELSLEVEARS.EHLELSLEVEARS.EHLELSLEVEARS.EHLELSLEVEARS.EHLELSLEVEARS.EHLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEARS.ETLELSLEVEAR
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178	1010 1026 1013 1140 1012 1092	LALARSLAELHQGTLT.MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRELALSRSLAELHRGNLT.MLESE.EANVFCLSLPVEQDSV.IKLAS.EH. LPLARSLASLHRGKLY.LDSEH.EDNSFVLSVPLVENTL.RSLPK.LE.E. LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE. LHLSYELVQVHKGTIE.YKONDGGGSVFTVCIPTDKSYY.SEKDFLIPGNV.LAISYNMAKLLNGTLK.VENTPDGWVMFTLTLPVVELTTGVAETKR LSLTKSLIHMHKGEIK.VESEVGKGSEFIVSLNVSESAY.SSSEK.SLESI.
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786	1010 1026 1013 1140 1012 1092 1019 1012 1012 1019	LALARSLAELHQGTLT . MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRELALSRSLAELHRGNLT . MLESE.EANVFCLSLPVEQDSV.IKLAS.EH.  LPLARSLASLHRGKLY.LDSEH.EDNSFYLSVPLVENTI.RSLPK.LE.E.  LSLVKELVEMHK ATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS  LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE  LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFLIPGNV.  LAISYNMAKLLNGTLK.VENTPDGWVMFTLTLPVVELTTGVAETKR  LSLTKSLIHMHKGEIK.VESEVGKGSEFIVSLNVSESAY.SSSEK.SLESI  LALTKGIIELHGTIR.VESEPGKGSRFIITLKSGNQHF.TEEQI.IRDNADA  LAISYNMAKLLNGTLK.VENTPDGWVLFTLSLPPLEVTTGVSSKR
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	1010 1026 1013 1140 1012 1092 1019 1012 1012 1019 1020	LALARSLAELHQGTLT MDQDM ECNRFILSIPIRHQTA SDVLE EEHRE  LALSRSLAELHRGNLT MLESE EANVFCLSLPVEQDSV IKLAS EH.  LPLARSLASLHRGKLY LDSEH EDNSFVLSVPLVENTL RSLPK LE E  LSLVKELVEMHKATIS VDSRLGEGSCFKVDFLKGKEHY NSSVEFILEDSV AP LSMERIVDIANS  LAFAKSLAEAHQGSLR LEDNEPQGSSFILSLPLSEKKA EEAAD IVE  LHLSYELVQVHKGTIE YKDNDGGGSVFTVCIPTDKSVY SEKDFLIPGNV  LAISYNMAKLINGTLK VENTPDGWVMFTLTLPVVELTT GVAETKR  LSLTKSLIHMHKGEIK VESEVGKGSEFIVSLNVSESAY SSSEK SLESI  LALTKGIIELHHGTIR VESEPGKGSRFIITLKSGNQHF TEEQI IRDNAD A  LAISYNMAKLINGTLK VENTPDGWVLFTLSLPPLEVTTGVSSKR  LSLVQRLIEHHGRIE LDSEENKGSTFSVYLPQDLSVY KPSEL ASNNE
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT3786 BT3049	1010 1026 1013 1140 1012 1092 1019 1012 1012 1019 1020 1037	LALARSLAELHQGTIT MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE LALSRSLAELHGGNIT MLESE.EANVFCLSLPVEQDSV.IKLAS.EH. LPLARSLASLHRG KIY.LDSEH.EDNSFVLSVPLVENTI.RSLPK.LE.E. LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS LAFAKSLAEAHQGSIR.LEDNBPQGSSFILSLPLSEKKA.EEAAD.IVE. LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFLIPGNV. LAISYNMAKLINGTLK.VENTPDGWVMFTLTLPVVELITTGVAETKR LSLTKSLIHMHKGEIK.VESEVGKGSEFIVSLNVSESAY.SSSEK.SLESI. LALTKGIIELHHGTIR.VESEPGKGSRFIITLKSGNQHF.TEEQI.IRDNAD.AALSIYNMAKLINGTLK.VENTPDGWVLFTLSLPPLEVTTGVSSKR LSLVQRLIELHHGRIE.LDSEENKGSTFSVYLPQDLSVY.KPSEL.ASNNE.LALVVRLIELHGEIR.VESIQNEGSTFYISLLTD.NIY.PNALH.GDSTK.
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	1010 1026 1013 1140 1012 1092 1019 1012 1012 1019 1020	LALARSLAELHQGTLI MDQDM ECNRFILSIPIRHQTA SDVLE EEHRE  LALSRSLAELHRGNLT MLESE EANVFCLSLPVEQDSV IKLAS EH.  LPLARSLASLHRGKLY LDSEH.EDNSFVLSVPLVENTL RSLPK LE E.  LSLVKELVEMHKATIS VDSRLGEGSCFKVDFLKGKEHY NSSVEFILEDSV AP LSMERIVDIANS  LAFAKSLAEAHQGSLR LEDNEPQGSSFILSLPLSEKKA EEAAD IVE.  LHLSYELVQVHKGTIE YKNNDGGGSVFTVCIPTDKSVY SEKDFLIPGNV  LAISYNMAKLINGTLK VENTPDGWVMFTLTLPVVELTT GVAETKR  LSLTKSLIHMHKGEIK VESEVGKGSEFIVSLNVSESAY SSSEK LESI  LALTKGIIELHHGTIR VESEPGKGSRFIITLKSGNQHF TEEQI IRDNAD A  LAISYNMAKLINGTLK VENTPDGWVLFTLSPPLEVTT GVSSKR  LSLVQRLIELHHGRIE LDSEENKGSTFSVYLPQDLSVY KPSEL ASNNE  LALVRNLVELHEGEIR VESEJQNEGSTFYSLLTD NIY PNALH GDSTK  LAICHSMVNLLNGQI Q VSSIPNEVTTFDVWLPVMEVTVV D NEDEK V  LALAKGIMNMHHGKIE VESTVGEGTKFILSPLGNRHF SDEEMAVTEGRE
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT3786 BT3049 BT3302 BT3302 BT3049 BT3302	1010 1026 1013 1140 1012 1092 1019 1012 1019 1020 1037 1028 1011 1100	LALARSLAELHQGTI MOQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE LALSRSLAELHGGNI MESE.EANVFCLSLPVEQDSV.IKLAS.EH. LPLARSLASLHRGKIY.LDSEH.EDNSFVLSVPLVENDTI.RSLPK.LE.E. LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE. LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFILFGNV. LAISYNMAKLINGTLK.VENTPDGWVMFTLTLPVVELTTGVAETKR. LSLTKSLIHMHKGEIK.VESEVGKGSEFIVSLNVSESAY.SSSEK.SLESI LALTKGIIELHHGTIR.VESEPGKGSRFIITLKSGNQHF.TEEQIIRDNADA LAISYNMAKLINGTLK.VENTPDGWVLFTLSLPPLEVTTGVSSSKR. LSLVQRLIELHHGRIE.LDSEENKGSTFSVYLPQDLSVY.KPSEL.ASNNE. LSLVQRLIELHGGRIE.LDSEENKGSTFSVYLPQDLSVY.KPSEL.ASNNE. LALVRNLVEHEGGEIR.VESIQNEGSTFYISLLTD.NIY.PNALH.GDSTK. LAICHSMVNLLNGQIQ.VSSIPNEVTTFDVWLPVMEVTVD.NEDEK.VLALAKGIMNMHHGKIE.VESTVGGGTFFILSLPLGNRHF.SDEEMAVTEGRE. LALKRIVQMHGGEIK.AFNNRHAGCSFRILLPLQRNER.KDEKMILIDHND.S.SATPV.
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3049 BT3663 BT3049 BT3786 BT4663 BT3049 BT3786 BT4663 BT3049 BT3786 BT3786 BT3786	1010 1026 1013 1140 1012 1092 1019 1012 1019 1020 1037 1028 1011 1100 994	LALARSLAELHQGTLT MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE  LALSRSLAELHRGNLT MLESE.EANVFCLSLPVEQDSV.IKLAS.EH  LPLARSLASLHRGKLY.LDSEH.EDNSFVLSVPLVENTI.RSLPK.LE.E  LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS  LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE  LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFLIPGNV.  LAISYNMAKLLNGTIK.VENTPDGWVMFTLTLPVVELTTGVAETKR  LSLTKSLIHMHKGEIK.VESEPGKGSEFIVSLNVSESAY.SSSEK.SLESI  LALTKGIIELHGTIR.VESEPGKGSRFIITLKSGNQHF.TEEQI.RDNADA  LAISYNMAKLLNGTLK.VENTPDGWVLFTLSLPPLEVTTGVSSSKR  LSLVQRLIELHGRIE.LDSEENKGSTFSVYLPQDLSVY.KPSEL.ASNNE  LALVRNLVELHEGEIR.VESIQNEGSTFYISLLTD.NIY.PNALH.GDSTK  LALVRNLVELHEGEIR.VESIQNEGSTFYTSLLTD.NIY.PNALH.GDSTK  LALCHSMVNLINGQIQ.VSSIPNEVTTFDVWLPVMEVTVD.NEDEK.VV  LALAKGIMNMHHGKIE.VESTVGEGTKFFILSLPLGNRHF.SDEEMAVTEGRE  LYLCKRIVQMHGGEIK.AFNNRHAGCSFRILLPLQRNER.KDEKTIIIDHND.S.SATPV
BT4673 BT2897 BT2923 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT3049 BT3302 BT2971 BT0366 BT2971 BT0366 BT3738	1010 1026 1013 1140 1012 1092 1019 1012 1012 1019 1020 1037 1028 1011 1100 994 1002	LALARSLAELHQGTIT MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE LALSRSLAELHRGNLT MLESE.EANVFCLSLPVEQDSV.IKLAS.EH.  LPLARSLASLHRGKLY LDSEH.EDNSFVLSVPLVENTI.RSLPK.LE.E.  LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS  LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE.  LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFLIPGNV.  LAISYNMAKLINGTLK.VENTPDGWVMFTLTLPVVELTTGVAETKR  LSLTKSLIHMHKGEIK.VESEVGKGSEFIVSLNVSESAY.SSSEK.SLESI  LALTKGIIELHHGTIR.VESEPGKGSRFIITLKSGNQHF.TEEQI.TRDNAD.AA  LAISYNMAKLINGTLK.VENTPDGWVLFTLSLPPLEVTTGVSSKR  LSLVQRLIELHHGRIE.LDSEENKGSTFSVYLPQDLSVY.KPSEL.ASNNE  LALVRNLVELHEGEIR.VESIQNEGSTFYSVLPDLOSV.KPSEL.ASNNE  LALVRNLVELHEGEIR.VESIQNEGSTFYISLLTD.NIY.PNALH.GDSTK  LALAKGINMMHKKELVESTVGGGKFFILSLPLGNRHF.SDEEMAVTEGRE  LALKGNMNHLNGQIQ.VSSIPNEVTTFDVWLPVMEVTV.D.NEDEK.V  LALAKGINMMHKKELVESTVGGGKFFILSLPLGNRHF.SDEEMAVTEGRE  LYLCKRIVQMHGGEIK.AFNNRHAGCSFRILLPLQRNRF.KDEKTIIIDHND.S.SATPV.  LMLVVKLVKLHKGKI NLSSVENGGSTVISSFPKDSKRF.HKAHL.ATPSK  LMLVVKLVKLHKGKI NLSSVENGGSTVISFPKGNSKF.HKAHL.ATPSK
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366 BT2971 BT0366	1010 1026 1013 1140 1012 1092 1019 1012 1019 1020 1037 1028 1011 1100 994 1002 1090 991	LALARSLAELHQGTLI MDQDM ECNRFILISIPIRHQTA SDVLE EEHRE LALSRSLAELHRGNLI MLESE EANVFCLSLPVEQDSV IKLAS EH. LPLARSLASLHRGKLY LDSEH EDNSFVLSVPLVENTL RSLPK LE . E. LSLVKELVEMHKATIS VDSRLGEGSCFKVDFLKGKEHY NSSVEFILEDSV AP LSMERIVDIANS LAFAKSLAEAHQGSLR LEDNEPQGSSFILSLPLSEKKA EEAAD IVE. LHLSYELVQVHKGTIE YKDNDGGGSVFTVCIPTDKSVY SEKDFLIPGNV LAISYNMAKLINGTLK VENTPDGWVMFTLIPVVELTT . GVAETKR LSLTKSLIHMHKGEIK VESEVGKGSEFIVSLNVSESAY SSSEK SLESI LALTKGIIELHHGTIR VESEPGKGSRFIIILKKSGNQHF TEEQI IRDNAD . A LAISYNMAKLINGTLK VENTPDGWVLFTLSPPLEVTT
BT4673 BT2897 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT3786 BT3049 BT3302 BT3049 BT3302 BT2971 BT0366 BT1734 BT1734 BT1734 BT1738 BT1738 BT1635 BT1635	1010 1026 1013 1140 1012 1019 1019 1012 1012 1012 1020 1037 1028 1011 1100 994 1002 1099 1014	LALARSLAELHQGTIT MDQDM.ECNRFILSIPIRHQTA.SDVLE.EEHRE LALSRSLAEHRGNLT MLESE.EANVFCLSLPVEQDSV.IKLAS.EH.  PLARSLASHRG KLY.LDSEH.EDNSFVLSVPLVENTI.RSLPK.LE.E.  LSLVKELVEMHKATIS.VDSRLGEGSCFKVDFLKGKEHY.NSSVEFILEDSV.AP.LSMERIVDIANS  LAFAKSLAEAHQGSLR.LEDNEPQGSSFILSLPLSEKKA.EEAAD.IVE.  LHLSYELVQVHKGTIE.YKDNDGGGSVFTVCIPTDKSVY.SEKDFLIPGNV.  LAISYNMAKLINGTLK.VENTPDGWVMFTLIPVVELTTGVAETKR  LSLTKSLIHMHKGEIK.VESEVGKGSEFIVSLNVSESAY.SSSEK.SLESI  LALTKGIIELHHGTIR.VESEPGKGSRFIITLKSGNQHF.TEEQI.TRDNAD.AA  LAISYNMAKLINGTLK.VENTPDGWVLFTLSLPPLEVTTGVSSSKR  LSLVQRLIELHHGRIE.LDSEENKGSTFSVYLPDQLSVY.KPSEL.ASNNE  LALVRNLVELHEGEIR.VESIQNEGSTFYYSLLTD.NIY.PNALH.GDSTK  LAICHSMVNLLNGQIQ.VSSIPNEVTTFDVWLPVMEVTV.D.NEDEK.V  LAILAKGIMMHHHGKIE.VESTVGGGFKFILSLPLGNRHF.SDEEMAVTEGRE  LYLCKRIVQMHGGEIK.AFNNRHAGCSFRILLPLQRNER.KDEKTIIIDHND.S.SATPV.LMLVWKLVRLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.SVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVENQGSVIKISFPKDSKRF.HKAHL.ATPSK  LMLVYKLVKLHKGKIH.LSVENQGSVIKISFPKDSKRF.LLPLRESE.EIIC.QPKA  MFRIRTMQRFVFSALK.
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BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT39049 BT39049 BT3971 BT0366 BT3736 BT3738 BT4182 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT4124 BT0958 BT4124 BT0958 BT4124 BT0958 BT4124 BT0958 BT4124 BT0958 BT3172 BT4137 BT3800 BT3172 BT4137 BT3800 BT3172 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137 BT4137	1010 1026 1013 1140 1012 1019 1012 1019 1020 1037 1028 1011 1100 991 1014 1052 1107 1045 1036 1036 1036 1036 1036 1036 1036 1036	LALARSLAELHQGTLT MULSE EANNFILISIPIRHQTA SDVLE EEHRE LALSRSLAELHRGNLT MLESE EANNFILISIPIRHQTA SDVLE EEHRE LPLARSLASLHRGKLY LDSEH EDNSFVLSVPLVENTL RSLPK LE E LSLVKELVEMHKAATIS VDSRLGEGSCFKVDFLKGKEHY NSSVEFILEDSV AP LSMERIVDIANS LAFAKSLAEAHQGSLR LEDNEPQGSSFILSLPLSEKKA EEAAD IVE LHLSYELVQVHKGTIE YKNDNGGGSVFTVCIPTDKSVY SEKDFLIPGNV LAISYNMAKLINGTLK VENTPDGWVMFTLTLPVVELTT .GVAETKR LSLTKSLIHMHKGEIK VESEVGKGSEFIVSLNVSESAY SSSEK LESI LALTKGIIELHHGTIR VESEPGKGSRFIITLKSGNQHF TEEQI IRDNAD .A LAISYNMAKLINGTLK VENTPDGWVMFTLLSPPLEVTT .GVSSKR LSLVQNLIELHHGTIR VESEPGKGSRFIITLKSGNQHF TEEQI IRDNAD .A LAISYNMAKLINGTLK VENTPDGWVLFTLSPPLEVTT .GVSSKR . LSLVQNLIELHHGTE LDSEENKGSTFSVYLPQDLSVY KPSEL ASNNE LALVRNLVELHE GEIR VESIQNEGSTFYSTLPQDLSVY KPSEL ASNNE LALVRNLVELHE GEIR VESIQNEGSTFYSTLDPLQNEV KPSEL ASNNE LALVRNLVEHE GEIR VESIQNEGSTFYTLSLTD NIY PNALH .GDSTK .V LAICHSMVNLNGQI Q VSSIPNEVTTFDVWLPVWEVTV .D NEDEK .V LALAKGIMNMHHGKE VESTVGEGTKFILSLPLGNRHF SDEEMAVTEGRE .L LLLVRNLVWKLVKLHKGKI .USSVENQGSVINISFFKDSKRF .KDEKTIIDHND S SATPV .L LMLVWKLVRLHKGKI .IQSVEHQGTCVQITFPKGNTHL .HKAKF .ISPKT .L LHLTHELVQVHKGNIS YDENEGGGSVFTVLLPTNSDIY .QEKDFIIPNQL .L LSYSKILVELHGG SI G ARDNSESGATFFFELPLKLESE EIIC .QPKA MFRIRTMQRFVF SALK .QQNS .VMRYIT PVGQDNQ .L LKLVDKLVHHGSKI NIESVEQGGTTITVVFPKGNKHF .RHSNL .IDPEK LSIVKDLVEHNG GTIS .VESEVDHGTEFMWRIPIERSYY .DEEQI .DDEAI .L LSLVKEMVDMHHGTIK .VTSEPEAGSRFFIVTLPLYRKSY .DEEQI .DDEAI .L LSLVKEMVDMHHGTIK .VTSEPEAGSRFFIVTLPLYRKSY .QEEDEL .SEHIA LSLVKEMVDMHHGTIK .VTSEPEAGSRFFIVTLPLYRKSY .DEEQI .DDEAI .L LSLVKEMVDMHHGTIK .VTSEPEAGSRFFIVTLPLYRKSY .DEEQI .DDEAI .L LSLVKEMVDMHHGTIK .VTSEPEAGSRFFIVTLPLYGESHFAQGEYEMVPDPMKG LSYSKILVELHG GTI S .VESEVDHGTEFMWRIPIERSYY .DEEQI .DDEAI .L LSLVKEMVDMHHGTIK .VTSEPEAGSRFFIVTLPLYRGDSHFAKDSYELI .DSHQG LSYSKILVELHG GSI G ARDNAEGSAFFFELPLKQESE .EIIC .QPKAAKDSYELI .DSHQG LSYSKILVELHG GSI G ARDNAEGSAFFFILPLYM .EGIKQ .EN .N . FTIMQQMIEAHYGTI T .LESTEGKGTKVTVNNLPADRDVFENNPNIQFIDPELTEVAELEPESAETQKQD LALSKEIVNLHHGII R .AESPEGGGAVFIVELLLDKDHYRPSEVDFVVSD

BT4673

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BT4673		
BT4673 BT2897	1044 1057	VIAVEEDEIPVIASKKQLESLF
BT2923	1070	KSVEESKTVER
BT2860	1058	ITVETDTLGEGVPVEAEMKSY.VLLLVEDNETMLEFMSERLLEVF.TVETAKNGQE
BT4111 BT3465	1204 1058	SLQTEAAIADAPDLEVSAVKEEAEESSSKELMLLVEDNQELRSFLRSIFASTY.RVVEASEGME
BT4178	1141	VHSENEGSAENIPSEFSGKKF.TVLLVEDNVELLNLTRDSLVAWF.RVLKAPNGRALLKEAGGQAHHLL.ELSEELPEPEKIAEPLNKRKVLIIEDDNDIREFLKEEVGVYF.EVEVAADGTS
BT2628	1064	LTAEYIPKIDTQSILKLPQYEFDKMRPTL <mark>LVV</mark> DDEIEMLWFIGEIFSADF.NVVTLQDPER
BT3097	1060	TSEEIQKYNLRMKETIELIPDQLISTEQDNTDVKE.SIL <mark>IVE</mark> DNKEMNDYLAEIFSKDY.QVFRAYNGAE
BT3334 BT3786	1062 1064	NIQQPPETIVPTVEILPDSEWKEEDNKRIEDAKMLIVEDNESIKQMLVGIFETFY QVTTASDGVE ITSEYIPKIESQLVLKLPHYEFDKMRPTLLVIDDELEMLWFIGEIFSNDF.NVVTLQEPER
BT4663	1068	QNEEEQVYSTNSKAMYFIDTEKVENESVESGDKKRGTI <mark>LIV</mark> EDNNEIRRYLSNGLADL <mark>F</mark> .NTLEAGNGEE
BT3049	1084	QTEEEMISEAVPEDSQNTEPETSKPILLIVEDNEDIQKYIAESFSDSF.EVITGSNGEE
BT3302 BT2971	1073 1061	AEELVLSSDEQAVELKNSSVEFDKNKQTIMIIDDDPSMLWFVTEIFVGAY.NVVSLGSAEE SLII.PEASVSSYGQLMAEEIKEPESQKNMDEEDKPTILLVDDNTELLSMLEDIFLPMY.NVYTACNGRE
BT0366	1156	QDSGSPKEKEALSI <mark>LVV</mark> EDNADMRGYIRSILREQ <mark>Y</mark> .HVLEAANGEE
BT1734	1042	R.RQEITSTTNVPASIYENVHKEQNPNHQRIL <mark>IV</mark> EDNDELRNYLSQTLAEEY.TVQNCCNGKE
BT3738 BT4182	1050 1139	PNERMDAVVLGGTSDLPVLEAPQIKTSLQRILVVEDNDDLRNYLVDMLMAGY.NIQSCSNGKD LTEEEEQHSKDFLRNETSEDTFQPPVDPLNKRKVLIIEDDTDIREFLREEIGVYF.EVEVAADGTS
BT1635	1037	YLNEL.MSDDSSKQSQEEDSFATAPYSILVVDDNPDLTDFLKKALGEYFKRILTASDGVE
BT3951	1048	TITFDPVVVAEQNEV.RKTVLLLEDREEIVWLISALLSDEY EVRSVRSVQL
BT0958 BT3957	1038 1047	TGRQEAVLDAPVISEAAEKTNDENLQRILIVEDNDELRAYLVNSLSPMY.NVQACGNGKE TLAFEPAIIKETEEHGKKTVLLLEDRDEMVWLISDLLADEF.VVCPVKSVQL
BT3678	1100	SLMQNPVNYEDTQEDADVETQEVTIKANTILLVEDNGELLHLMTKLLSREY.NVFTAQNGKE
BT4124	1166	SSLQTEKRAEAEDKEDMENNTAPDTLTI <mark>LVV</mark> EDNEELKAFLKNILSEN <mark>Y</mark> .TVITASNGKE
BT0267 BT2391	1093 1088	SANGINTDLILEKEALADSQVGEDTQIADVH.LLLVEDNEELLFLMEKILSKHY.HVLIAKDGLE DLLEECPAEERPMEEVVEEKNETMEEAVNRVKNNKEYLLIIEDHDEMREYLCSLFKEDY.NVIEAENGEE
BT3800	1056	KTKQNEELKPEPFLPIPENKIQETAAKKSLLIIEDNEDVREYIRSLFISRY.AVSEACNGEE
BT3172	1033	YLNEL.ILSDNLKQATDKETFDTTPYTILVVDDNPDMTDFLKKTLEESFKRVIIAADGVE
BT4137 BT2826	1032 1031	YLNEL.MSNDDSEHISKGEEFDTTSYTI <mark>LVV</mark> DDNSDLTDFFSKALSEYFKKVLIASDGVE ASVEA.ATGVEVNEPDRIDYTFLKKYSV <mark>MVV</mark> EDTPELRSYLKETLSNYFARVYVAKDGKE
BT3134	979	KAIQKDIVELDEHTPVTADMYGY.TLLLVVEDNESMLTFILERLQENF.TVETAMNGVE
BT4236	1095	LAVEDAVVQQDQQLPLFAEALPAEEVASPVAGGVKKTI <mark>LIV</mark> EDHKDIRLYLKVLFGNEY.NLLMATNGQE
BT0981 BT0138	1194 815	KKMVIDSEKEPEEELEIDASLPTLLLVEDNKDLCQLIKLQLEDKF.NIHIANNGVE
BT3660	010	
consensus>50		<u>l.vedn.eyvng.e</u>
		REC Domain
DM4672		
BT4673		
BT4673	1114	AIKVIEHEVINIVISNIMMPEMNGIELCEHI KSNINVSHIDIIIITAKTIIESKIEGIENGANAVIEKD
		ALKVLEHEYINLVISDIMMPEMDGLELCEHL. KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDVVMPRMDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP
BT4673 BT2897 BT2923 BT2860	1126 1112	ALKVLEHEYINLVISDIMMPEMDGLELCEH <mark>L</mark> KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDVVMPRMDGFELCKV <sup>V</sup> KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPVMNGWELCKE <u>I</u> , KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP
BT4673 BT2897 BT2923 BT2860 BT4111	1126 1112 1267	ALKVLEHEYINLVISDIMMPEMDGLELCEH <mark>L</mark> . KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDUVMPRMDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPVMNGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL. RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178	1126 1112 1267 1112 1206	ALKVLEHEYINLVISDIMMPEMDGLELCEHL KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDVVMPRMDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPVMNGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL. KSDFATSHIPIILLTALNSPEKHLEGIEAGADAYIAKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	1126 1112 1267 1112 1206 1124	ALKVLEHEYINLVISDIMMPEMDGLELCEHU. KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLRSRRIDLVISDIMMPUMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPUMDGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL. RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMDGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL. KSDFATSHIPIILLTALNSPEKHLEGIEAGADAYIAKP LDQVMNEVYPNVIICDVMMPGMGGIELTRRI. KSVKETAHIPIILVTSGRHEMEQQMEALSAGAEMYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178	1126 1112 1267 1112 1206	ALKVLEHEYINLVISDIMMPEMDGLELCEHU . KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDVMPRMDGFELCKVV . KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRIDLVISDIMMPVMNGWELCKEI . KSDMDLSHIPVIFLTAKTNIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL . RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV . KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKK . KSDFATSHIPIILLTAKTTLESKVEGLECGADAYIAKP LDQVMNEVYPNVIICDVMMPGMGGIELTRRI . KSVKETAHPPIIVVSREHEMEQQMEALSAGAEMYITKP ACKLLKKQLPDLIVSDVMMPVMDGLELTAYV . KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786	1126 1112 1267 1112 1206 1124 1128 1127 1124	ALKVLEHEYINLVISDIMMPEMDGLELCEH KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLRSRRIDLVISDIMMPUMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPUMDGWELCKEI KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTRE L. RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMDGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL KSDFATSHIPIILLTAKTLESKVEGLECGADVITKP LDQVMNEVYPNVIICDVMMPGMGGIELTRRI KSVKETAHIPIILVALNSPEKHLEGIEAGADAYIAKP ACKLLKKQLPDLIVSDVMMPVMDGLELTAYV. KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ALDIIQKDMPSIILSDVVMPRMSGTELCKQV. KTDFNTCHIPVVLLTARTDELDHTQGYLKGADAYITKP VEQVLNEVYPNVIICDIMMPGVGGIELTKRI KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP VEQVLNEVYPNVIICDIMMPGVGGIELTKRI KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	1126 1112 1267 1112 1206 1124 1128 1127 1124 1137	ALKVLEHEYINLVISDIMMPEMDGLELCEHI KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLNNQEVTLVVSDVVMPRMDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPWNNGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPENGGIEMTREI. RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL. KSDFATSHIPIILLTALNSPEKHLEGIEAGADAYIAKP LDQVMNEVYPNVIICDVMMPGMGGIELTRRI. KSVKETAHIPIILVSGRHEMEQQMEALSAGAEMYITKP ALKILKKQLPDLIVSDVMMPVMDGLELTAYV. KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ALDIIQKDMPSIILSDVVMPRMSGTELCKQV. KTDFNTCHIPVVLLTAKTAVEHNIEGLKIGADDYITKP VEQVLNEVYPNVIICDIMMPGVGGIELTKRI. KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP ALEKLKDNEVDVIVTDVMMPVMDGIELTKRI. KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP ALEKLKDNEVDVIVTDVMMPVMDGIELTKRI. KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786	1126 1112 1267 1112 1206 1124 1128 1127 1124	ALKVLEHEYINLVISDIMMPEMDGLELCEH KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLRSRRIDLVISDIMMPUMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPUMDGWELCKEI KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTRE L. RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMDGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL KSDFATSHIPIILLTAKTLESKVEGLECGADVITKP LDQVMNEVYPNVIICDVMMPGMGGIELTRRI KSVKETAHIPIILVALNSPEKHLEGIEAGADAYIAKP ACKLLKKQLPDLIVSDVMMPVMDGLELTAYV. KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ALDIIQKDMPSIILSDVVMPRMSGTELCKQV. KTDFNTCHIPVVLLTARTDELDHTQGYLKGADAYITKP VEQVLNEVYPNVIICDIMMPGVGGIELTKRI KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP VEQVLNEVYPNVIICDIMMPGVGGIELTKRI KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT3302	1126 1112 1267 1112 1206 1124 1127 1124 1137 1142 1133 1129	ALEVLEHEYINLVISDIMMPEMDGLELCEHL KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLRSRRIDLVISDIMMPEMDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPVMNGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPEKNGIEMTREL. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYVEKP GWSKALKYLPDIIISDVMMPEMSGLELCSKV. KSEIDYSHIPVILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKK. KSUKETAHIPIILLTALNSPEKHLEGIEAGADAYIAKP LDQVMNEVYPNVIICDVMMPGMGGIELTRRI. KSVKETAHIPIILVSGRHEMEQQMEALSAGAEMYITKP ACKLLKKQLPDLIVSDVMMPVMDGIELTAYV. KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP VEQVINEVYPNVIICDIMMPGWGGIELTAYV. KTOFNTCHIPVVLLTARTAVEHNIEGLKIGADDYITKP VEQVINEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP GKQQALNRIPDIIVSDIMMPVMDGIKLCKNV. KQNIRTCHIPVVILSAKTDIKDQMGELQMGADDYITKP GKQQALNRIPDIIVSDIMMPVMDGITLCRQL. KEDVRTSHIPVILLTAKDSLQDKEEGYEVGADSYLTKP ALKQLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGIESGAEAYITKP GLEMAQQIQPDLIVSDVIMPEMSGKDLCYKI. KTNVELSHISVVLLTAQTSVEYVVECLMFGADDYITKP
BT4673 BT2897 BT2923 BT29260 BT41111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT3302 BT2971 BT0366	1126 1112 1267 1112 1206 1124 1128 1127 1124 1137 1142 1133 1129 1201	ALEVLEHEYINLVISDIMMPEMDGLELCEH . KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDIMMPEMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLEGADAYIEKP ALEVLRSRRIDLVISDIMMPEMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL . KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL . KADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKVV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL. KSDFATSHIPIILLTAKTTLESKVEGLECGADVYIEKP LDQVMNEVYPNVIICDVMMPGMTGFEVTKKL. KSVKETAHIPIILVTAKTNEEKHLEGIEAGADAYIAKP LDQVMNEVYPNVIICDVMMPVMDGLELTAYVV. KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ACKLLKKQLPDLIVSDVMMPVMDGLELTAYVV. KQDLNSSHIPVILLTAKTAVEHNIEGLKIGADDYITKP VEQVLNEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILLTAKTAVEHNIEGLKIGADDYITKP ALEKLKDNEVDVIVTDVMMPVMDGIKLCKNVV. KQNIRTCHIPVVILSAKTDIKDQMEGLQMGADDYIPKP ALEKLKDNEVDVIVTDVMMPVMDGIKLCKNVV. KQNIRTCHIPVILLSAKTDIKDQMEGLQMGADDYIPKP ALEKLKDNEVDVIVTDVMMPVMDGIKLCKNVV. KQNIRTCHIPVILLTAKDSLQDKEEGYEVGADSYLTKP ALKQLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGIESGAEAYITKP ALKQLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGIESGAEAYITKP GLEMAQQIQPDLIVSDVIMPEMSGKDLCYKI. KTNVELSHISVVLLTAQTSVEYVVEGLMFGADDYITKP ALHILNSNPIDFIISDLMMPVMDGIELSRRV. KETFAISHIPFIMLTAKTSQEARLESYRMGVDEYLLKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT302 BT2971 BT0366 BT1734 BT3738	1126 1112 1267 1112 1206 1124 1128 1127 1142 1133 1129 1201 1103 1112	ALEVLEHEYINLVISDIMMPEMDGLELCEHL KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLRSRRIDLVISDIMMPWNDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPWNDGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL KADMTTSHIPVILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFERARTYDADLIICDVLMPGMTGFEVTKK. KSDFATSHIPVILLTAKTTLESKVEGLECGADAYITKP LDQVMNEVYPNVIICDVMMPGMTGFEVTKK. KSDFATSHIPVILLTAKNDELDHTQGYLKGADAYITKP ACKLLKKQLPDLIVSDVMMPVMDGIELTAYV. KQDLNSHIPVILLTAKTDELDHTQGYLKGADAYITKP ACKLLKKQLPDLIVSDVMMPWMDGIELTAYV. KQDLNSHIPVILLTAKTDELDHTQGYLKGADAYITKP VEQVINEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILLTAKTDELDHTQGYLKGADAYITKP VEQVINEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILLTAKTDELDHTQGYLKGADAYITKP GKQQALNRIPDIIVSDVMMPWMDGILCKQV. KONIRTCHIPVVILSAKTDIKDQWGELQWGADDYITKP GKQQALNRIPDIIVSDVMMPWMDGILCRQV. KEDVRTSHIPVILLTAKDSLQDKEEGYEVGADSYLTKP ALKCLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGESGAEAYITKP GLEMAQQIQPDLUSDVIMPEMSGKDLCYKI. KTNVELSHISVVLLTAGTSVEYVVECLMFGADDYITKP ALHILNSNPIDFIISDLMMPVMDGIELSRRV. KETFAISHIPVILLTAKTSQEARLESYRMGVDEYLLKP ALTIPEYKPELVISDIMMPEMSGDELCSAI. KTNVELSHIPVILLTALNNEKDILSGLQIGADDYITKP ALVIIKEFNPDLVISDIMMPEMSGDELCSAI. KTSVEMSHIPVILLTALGDEKNILGGLEIGADAYITKP
BT4673 BT2897 BT2923 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT1734 BT3738	1126 1112 1267 1112 1206 1124 1128 1127 1124 1133 1129 1201 1103 1112 1204	ALEVLEHEYINLVISDIMMPEMDGLELCEH! KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDIMMPEMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPEMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL KADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMDGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL. KSDFATSHIPIILLTAKTTLESKVEGLECGADVYIEKP LDQWNMEVYPNVIICDVMMPGMTGFEVTKKL. KSDFATSHIPIILLTAKTTLESKVEGLECGADVYIEKP LDQWNMEVYPNVIICDVMMPGMTGFEVTKKL. KSVKETAHIPIILVASRHEMEQQMEALSAGAEMYITKP ACKLLKKQLPDLIVSDVMMPVMDGLELTAYV. KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ALDIIQKDMPSIILSDVVMPRMSGTELCKQV. KTDFNTCHIPVVLLTARTAVEHNIEGLKIGADDYITKP VEQVLNEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILVTARTAVEHNIEGLKIGADDYITKP ALEKLKDNEVDVIVTDVMMPVMDGIKLCKNV. KQNIRTCHIPVVILSAKTDIKDQMEGLQMGADDYIPKP ALEKLKDNEVDVIVTDVMMPVMDGIKLCKNV. KQNIRTCHIPVVILSAKTDIKDQMEGLQMGADDYIPKP ALKQLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGIESGAEAYITKP ALHILNSNPIDFIISDLMMPVMDGIELSRRV. KEDVRTSHIPVILLTAKDSLQDKEEGYEVGADSYLTKP ALHILNSNPIDFIISDLMMPVMDGIELSRRV. KETFAISHIPFIMLTAKTSQEARLESYRMGVDEYLLKP ALHILPEYKPELVISDIMMPEMSGDELCSAI. KNNIETSHIPVILLTALNNEKDILSGLEIGADAYITKP ALVIIKEFNPDLVISDIMMPEMSGDELCSAI. KNNIETSHIPVILLTALNNEKDILSGLEIGADAYITKP ALVIIKEFNPDLVISDIMMPEMSGDELCSAI. KNNIETSHIPVILLTALNIEKKYQEGIESGADAYITKP GFEKASTYDADLIVCDVLMPGMNGFEVTRKI. KNEFTTSHIPIILLTALNIEKKYQEGIESGADAYITKP
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT302 BT2971 BT0366 BT1734 BT3738	1126 1112 1267 1112 1206 1124 1128 1127 1142 1133 1129 1201 1103 1112	ALEVLEHEYINLVISDIMMPEMDGLELCEHL KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLRSRRIDLVISDIMMPWNDGFELCKVV. KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISDIMMPWNDGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL KADMTTSHIPVILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFERARTYDADLIICDVLMPGMTGFEVTKK. KSDFATSHIPVILLTAKTTLESKVEGLECGADAYITKP LDQVMNEVYPNVIICDVMMPGMTGFEVTKK. KSDFATSHIPVILLTAKNDELDHTQGYLKGADAYITKP ACKLLKKQLPDLIVSDVMMPVMDGIELTAYV. KQDLNSHIPVILLTAKTDELDHTQGYLKGADAYITKP ACKLLKKQLPDLIVSDVMMPWMDGIELTAYV. KQDLNSHIPVILLTAKTDELDHTQGYLKGADAYITKP VEQVINEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILLTAKTDELDHTQGYLKGADAYITKP VEQVINEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILLTAKTDELDHTQGYLKGADAYITKP GKQQALNRIPDIIVSDVMMPWMDGILCKQV. KONIRTCHIPVVILSAKTDIKDQWGELQWGADDYITKP GKQQALNRIPDIIVSDVMMPWMDGILCRQV. KEDVRTSHIPVILLTAKDSLQDKEEGYEVGADSYLTKP ALKCLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGESGAEAYITKP GLEMAQQIQPDLUSDVIMPEMSGKDLCYKI. KTNVELSHISVVLLTAGTSVEYVVECLMFGADDYITKP ALHILNSNPIDFIISDLMMPVMDGIELSRRV. KETFAISHIPVILLTAKTSQEARLESYRMGVDEYLLKP ALTIPEYKPELVISDIMMPEMSGDELCSAI. KTNVELSHIPVILLTALNNEKDILSGLQIGADDYITKP ALVIIKEFNPDLVISDIMMPEMSGDELCSAI. KTSVEMSHIPVILLTALGDEKNILGGLEIGADAYITKP
BT4673 BT2897 BT2923 BT2923 BT29260 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT41635 BT3951 BT3951	1126 1112 1206 1124 1128 1127 1124 1137 1142 1133 1129 1201 1103 1112 1204 1096 1098	ALEVLEHEYINLVISDIMMPEMDGLELCEH! KSNLDYSHIPIILLTAKTTLESKIEGLEQGADAYIEKP ALEVLDNQEVTLVVSDUVMPRMDGFELCKUV. KSKLDYSHIPVILLTAKTNIQSKIEGLEGADAYIEKP ALEVLRSRRIDLVISDIMMPVMNGWELCKEI. KSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL. RSDMDLSHIPVIFLTAKNDIDSKINGLKIGAEAYYEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL. RADMTTSHIPIILLTAKTTIESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLELCSKV. KSEIDYSHIPVILLTAKTTLESKVEGLECGADVYIEKP GFERARTYDADLIICDVLMPGMTGFEVTKKL. KSDFATSHIPIILLTAKTTLESKVEGLECGADVYIEKP LDQVMNEVYPNVIICDVMMPGMTGFEVTKKL. KSDFATSHIPIILLTAKTTLESKVEGLECGADVYIEKP LDQVMNEVYPNVIICDVMMPGMTGFEVTKKL. KSVKETAHIPIILVTAKINEPEKHLEGIEAGADAYIAKP LDQVMNEVYPNVIICDVMMPVMDGLELTAYV. KQDLNSSHIPVILLTAKTDLEDHTQGYLKGADAYITKP ALDIIQKDMPSIILSDVVMPRMSGTELCKQV. KTDFNTCHIPVVLLTARTAVEHNIEGLKIGADDYITKP VEQVLNEVYPNVIICDIMMPGWGGIELTKRI. KSVKETSHIPVILUTARTAVEHNIEGLKIGADDYITKP ALEKLKONEVDVIVTDVMMPVMDGIKLCKNV. KQNIRTCHIPVVILSAKTDIKDQMEGLQMGADDYIPKP GKQQALNRIPDIIVSDIMMPVMDGIKLCKNV. KQNIRTCHIPVILLTAKDSLQDKEEGYEVGADSYLTKP ALKQLGIQLPDLIISDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGIESGAEAYITKP GLEMAQQIQPDLIVSDVMMPGMDGMSFAKKI. KSDKLLSRIPLILLSALNNIDEQTRGIESGAEAYITKP GLEMAQQIQPDLIVSDVMMPGMDGMSFAKKI. KNDLETSHIPVILLTALDNEKDILSGLQIGADEYIVKP ALTIIPEYKPELISDIMMPEMSGDELCSAI. KTNVELSHIPVILLTALNNEKDILSGLQIGADEYIVKP ALTIIPEYKPELVISDIMMPEMSGDELCSAI. KTNVELSHIPVILLTALDNEKDILSGLQIGADEYIVKP ALVIIKEFNPDLVISDIMMPEMSGDELCSAI. KTSVEMSHIPVILLTALDIEKYQGGIESGADAYITKP ALQLIKSHTPDLIVSDVMMPRMNGYELCKNI. KEDIAISHIPVILLTALDIEKYQGGIESGADAYITKP ALQLIKSHTPDLIVSDVMMPRMNGYELCKNI. KEDIAISHIPVILLTALDIEKYQGGIESGADAYITKP ALQLIKSHTPDLIVSDVMMPRMNGYELCKNI. KEDIAISHIPVILLTALDIEKYQGGIESGADAYITKP ALQLIKSHTPDLIVSDVMMPRMNGYELCKNI. KEDIAISHIPVILLTALDIEKYQGGIESGADAYITKP ALQLIKSHTPDLIVSDVMMPRMNGYELCKNI. KEDIAISHIPVILLTALDIEKYQGGIESGADAYITKP ALQLIKSHTPDLIVSDVMMPRMSYELCKNI. KEDIAISHIPVILLTALGDEKQNSGYKNGADAYITKP ALGLEKKPRPERTERTERTERTERTERTERTERTERTERTERTERTERTE
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BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT3678 BT4124 BT4236 BT3172 BT4137 BT2826 BT3172 BT4137 BT2826 BT3134 BT4236 BT0981	1126 1112 1267 1112 1206 1124 1128 1127 1142 1133 1129 1201 1103 1112 1204 1096 1097 1098 1097 1098 1157 1117 1090 1035 1157 1117 1090 1035 1164 1246 1246 1256 1266 1276 1276 1276 1276 1276 1276 127	ALEVLENEY INLVISD IMMPEMDGJELCEHL  KSNLDYSHIPVILLTAKTTLESKIEGLEGGADAYIEKP ALEVLDNQEVTLVVSDVVMPRMDGFELCKVV  KSKLDYSHIPVILLTAKTNIQSKIEGLELGADAYIEKP ALEVLRSRRIDLVISD IMMPVMNGWELCKEI  KSDMDLSHIPVILITAKTNIQSKIEGLELGADAYIEKP GWSKALKYLPDIIISDVMMPEKDGIEMTREL  RADMTTSHIPVILLTAKTTLESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGGELCSKV  KSEIDYSHIPVILLTAKTTLESKLEGLEYGADDYITKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL  KSDFATSHIPVILLTAKTTLESKLEGLEYGADDYITKP GFEKARTYDADLIICDVLMPGMTGFEVTKKL  KSDFATSHIPVILLTAKTTLESKLEGLEYGADDYITKP ALDIQKOMNEVYPNVIICDVMMPGMGGIELTRRI  KSVKETSHIPVILLTAKTDELBGIEAGADAYIAKP LDQVMNEVYPNVIICDVMMPGMGGIELTAYV  KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ACKLIKKQLPDLIVSDVMMPVMDGIELTAYV  KQDLNSSHIPVILLTAKTDELDHTQGYLKGADAYITKP ACKLIKKQLPDLIVSDVMMPVMDGIELTKRI  KSVKETSHIPVILLTAKTDELDHTGQYLKGADAYITKP ALEKLKDNEVOVIVTDVMMPVMDGIKLCKNV  KQNIRTCHIPVILLTAKTDELDCHTGQLKRI  GKQQALNRIPDIIVSDUMMPVMDGITLCRQL  KSVKETSHIPVILLTAKTDELMCQMGADDYITKP ALEKLKDNEVOVIVTDVMMPVMDGITLCRQL  KSVKETSHIPVILLTAKDSLQMEGGLOMGADDYITKP ALKQLGIQLPDLIISDVMMPGMGGNFAKKI  KSDKLLSRIPLILTAKTDELDCHEGGLOMGADDYITKP ALKQLGIQLPDLIISDVMMPGMGGNFAKKI  KSDKLLSRIPLILTAKTDELBERGV  ALKULSPELTRAGADAYITKP ALKQLGIQLPDLIVSDVIMPEMSGRDLCYKI  KNNIETSHIPVILLTAKDSLDKEGGLESGADAYITKP ALKTIPEYKPELVISDIMMPEMGGBLCSAI  KNNIETSHIPVILLTALNNEKDLISGLQIGADEYIVKP ALTIIPEYKPELVISDIMMPEMGGBLCSAI  KNNIETSHIPVILLTALNNEKDLISGLQIGADEYIVKP ALGULKSHTPDIIVSDVMMPGMNGFEVTKKL  KNSFTTSHIPVILLTALNNEKDLISGLQIGADEYIVKP ALFDEMMKSAPTLFLVOMLMYADAESTFIKYVNKNRSMLSKTAFIPPMLTWKVSASMQRELLUWADSYIVLP GFEKASTYDADLIVSDVMMPGMNGFEVTKKL  KNDIETSHIPVILLTAKNTVEASHOPSTARY ALFOLDAMAYITKP ALGULKSHTPDIIVSDVMMPEMGGLECSTI  KNDIETSHIPVILLTAKNTVEASHOPSTARY ALGULKKSHTPDIIVSDVMMPEMGGLECSTI  KNDIETSHIPVILLTAKNTVEASHOPSTARY ALGULKSHTPDIIVSDVMMPGMGFECCREV  KNDIETSHIPVILLTAKNTVEASHOPSTARY ALGULKSHTPDIIVSDVMMPGMGFECCREV  KNDIETSHIPVILLTAKNTVEASHOPSTARY ALGULKSHTPDIIVSDVMMPGMGGECCCREV  KNDIETSHIPVILLTAKNTVEASHOPSTARY ALGULKSHIPDIIVSDVMMPGMGGECCCREV  KENDHTTAKARA ALGULTAKTTURARDAGABAYITKP ALGULTAKTOR ALGULTARATATARY ALGULTARATATARY ALGULTARATATARY AL
BT4673 BT2897 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT3755 BT3957 BT3678 BT3678 BT4124 BT0267 BT2391 BT0267 BT2391 BT3800 BT3172 BT4137 BT3172 BT4137 BT3134 BT4236 BT0981 BT0138 BT0138 BT0138	1126 1112 1267 1112 1206 1124 1128 1127 1142 1133 1129 1201 1103 1112 1204 1096 1097 1098 1097 1098 1157 1117 1090 1035 1157 1117 1090 1035 1164 1246 1246 1256 1266 1276 1276 1276 1276 1276 1276 127	ALEVLEHEYINLVISDIMMPEMDGLELCEHL  ALEVLDNQEVTLVVSDVVMPRMDGFELCKVV  ALEVLRSRRIDLVISDIMMPVMNGWELCKEI.  KSDMDLSHIPVILLTAKTNIQSKIEGLEGADAYIEKP GWSKALKYLPDIIISDVMMPEMGGLEMTREL.  RADMTTSHIPVILLTAKTILESKLEGLEYGADDYITKP ALEILEQESVDVIVSDVMMPEMNGLECSKV  KSEIDYSHIPVILLTAKTILESKLEGLEYGADDYITKP GFEKARTYDADLIICDVLMPGMTGFEVTKK  LKSEIDYSHIPVILLTAKTILESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKK  LKSUKPTHPVILLTAKTILESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKK  LKSUKPTHPVILLTAKTILESKVEGLECGADVYIEKP GFEKARTYDADLIICDVLMPGMTGFEVTKK  LKSUKETAHIPIILVTAKTILESKVEGLECGADVYIEKP GFEKARTYDADLIISDVMPPGMGGIELTRRI  KSVKETAHIPIILVTAKTELEMEQQMEALSAGAEMYITKP ALKLIKKQLPDLIISDVMMPVMDGIELTAYV  ALCHLIKKQLPDLIISDVMMPVMDGIELTAYV  KYDLNITARTAVEHNIEGLKIGADDYITKP VEQVINEVYPNVIICDIMMPGVGGIELTKRI  KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP VEQVINEVYPNVIICDIMMPGVGGIELTKRI  KSVKETSHIPIIMVSGRHEMEQQMAALSAGAEMYITKP GKQQALNRIPDIIVSDIMMPVMDGIKLCKNV  KQDINTSHIPVILLTAKTOLKDQMEGLQKIGADAYITKP GKQQALNRIPDIIVSDIMMPVMDGIKLCKNV  KQDINTSHIPVILLTAKTOLKDQMEGLQKIGADAYITKP GKQQALNRIPDIIVSDIMMPVMDGIKLCKNV  KKDVETSHIPVILLTAKTOLKDQMEGLQKGADAYITKP GLEMAQQIQPDLIISDVMMPGMDGMFAKKI  KKEDVRTSHIPVILLTAKDSLQDKEEGYEVGADSYITKP GLEMAQQIQPDLIISDVMMPGMDGHESKAKI  KKTVELSHIPVILLTAKDSLQDKEEGYEVGADSYITKP ALHILNSNPIDFIISDLMMPVMDGIELSRRV  KETFAISHIPFILMTAKTSQEARLESYRMGVDEYLLKP ALVIIKEFNPDLLVISDIMMPEMSGDELCSAI  KTSVEMSHIPPVILLTARDNEKDILSGLQIGADEYIVKP ALQLIKSHTPDIIVSDVMMPRMNGFELCKNI  KKNSLTSHIPPVILLTARDNEKDILSGLQIGADEYIVKP AFDEMHKSAPTLFIVVDLMMYADABSTFIKYV  NKNRTQLSKTAFIPPMLLTARNVSSANGRELIWADSYIVLP GIAVLEKFWPELLISDIMMPVMDGLEFCRAL  KRDITTSHIPPVILLTARDDKORJUGGLEIGADAYITKP ALQLIKSHTPDIIVSDVMMPRMNGFELCKNI  KRDITTSHIPPILLTARNTVEDRIGEGEGGADAYITKP ALDIVKFFWPELLISDIMMPVMDGLEFCRAL  KRDNITCHLUTARDEKGLICGGIDDYITKP ALDIVKFFWPELLISDUMMPVMDGLEFCRAL  KRDNITCHLUTARDEKGLICGGIDDYITKP ALQLKKSHIPPILISDVMMPRMNGFELCRE  KRDNITCHTLARNTVEDRIGGEGIDDYITKP ALQLKKSHIPPILISDVMMPRMNGFELCRE  KRDNITCHTLARNTVEDKSQLGGIDDYITKP ALQLKKSHIPDIIVSDVMMPRMNGFELCRE  KRDNITCHTLARNTVEDKSQLGGIDDYITKP ALQLKKSHIPDIIVSDVMMPRMNGFELCRE  KEEPTATATA

BT4673		•
BT4673	1066	FSVEYLRVNVANLLSNRERLRRRFIESPFIKADTMAQTKADE
BT2897 BT2923	1183 1195	FSVEYLQACIANLINSREKLRQAFAQSPFVAANTMAQTKADE
BT2860	1181	FSFNYLKTQIVSLLYNRQKEREAFSKRPFFPTNKMQMNKVDE
BT4111	1336	FSATYLQARVENLLMQRKKLQNFYRDSLTHVTVSETPVAQGETLAGHASAEPVSSAAEEPAMPEMSPNDR
BT3465 BT4178	1181 1275	FSIKQLHKQIENLLRLRQSFHKLMVSLSGNANQASAELAMTQRDC FSIKLLLARVFRLIEQRDKLREKFSSEPGIVRAAVCS
BT2628	1193	FSAEYLRISVCQVIERKEVLKNYFSSPISSFEKSDGKLTHKESK
BT3097	1197	FNAQNLELLVQNMRTNRKQNIEYFKRIEKLNITQITNNPRDE
BT3334	1196	FNTNLLISRCNNLV.NSRRLLQEKFSKQPQAFAQMLATNPMDK
BT3786 BT4663	1193 1206	FNAEYLRISVCQMLERKEVLKDYFSSAISSFEKTDGKLTHKESK FSLAILTTKIQNMMRTRRRMLDKYAKSLEVEPEKITFNAMDE
BT3049	1211	FSASLLRSRINNLLDSRKKLIAQFQQTGTNHNPNSHLDEKRSIITEALSKLDN
BT3302	1202	FNVEYLEKVVRRLLQREEDLKEYYSSVLSAFELDDGHFLHKEDK
BT2971 BT0366	1198 1270	FNIKVLVARCNNLIKNKKRLIAHYAGKVITESPVAEAINEKDK FDETLLLARIQNILENRKRYQRKFTLDMDVDVLNMEEESGDK
BT1734	1172	FNIGILKATVSNLLINRALLRSKYGSL. DMDDEDDHEDECIN
BT3738	1181	FSVGILKVTIKNILANRELLRQVYNSIENKEKHLPVN
BT4182	1273	FNVSLLLARIFKLIELRDKLRQKYSNEPGLAHSIICTNDKDQ
BT1635 BT3951	1165 1168	FEVEMLMELIRNRLKNREHTKKRYLNAGLIPAPEESTFSQADE YDIPFLKETIHKVIYGKREARQIYMEDLEGWA.DSIVCTTTEQA
BT0958	1166	FSIRILKASIANLLANRALLRSKYANLEIDIEVKTPLAKCTNSLDW
BT3957	1168	YDIIFLKEAVNKAIYGTREAKQIYMEELGDWA.GRIV
BT3678 BT4124	1230 1294	FNLTVLHARIRNLLKYKERMARDFKNQIVFEVKDLNYTS.LDE FSATYLKTRIASLLRQRKSLQEIYMAKLTEGKEIAVAEALTPSQPQITPYDE
BT0267	1225	FELKILEARINNFIMHKKNKQEEFRSNVEVNIDSLEPSS.IDK
BT2391	1226	FNPELLKEKVKALIEQRDLLRKLYAKTLMLDEEVLESSEDVQD
BT3800	1186	FNPEILKTKVDNLILQRERLKRIYTKALML.KQESEEGEKE
BT3172 BT4137	1161 1160	FEVEMLMEIISNRLKNREYIKKRYLHTGIIPVPKETTFSQVDE FEIEMLMELIRNRLKNREYTKKRYLDAGLIPAPEETTFSLADE
BT2826	1159	FEIDGLLALIHNQLRQREQIRARYKDDKLLTHKEVSFSNADE
BT3134	1104	FSFNYLKEQVLSLLDNRRREREAFAKRPFFSVNNMQMNKADE
BT4236 BT0981	1233 1318	FTPGILKAKVSSLINGRQTLKQMYTKLFKLPGTDTIVVSEPEQAGEEVKTED FSKEYLLARIDQLLGERKLFRERIRQQMENQTTTEEDSYEQYLVKKDV
BT0138		
BT3660	790	EPDSAES
consensus>50		f,1iyyd.
D#4672		
BT4673	1070	
BT4673	1078 1225	KFLSNIIRLTEDHLSDADINVNAICELSGISNKQIYRKIKQLTGMSPVEYIKSIRMKKAAMLIQQK
	1225 1237	VFIQKLNEYVSQHLDNTDLVIDDMAEAMNMGRSNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDGR. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGN.
BT4673 BT2897 BT2923 BT2860	1225 1237 1223	VFTQKLNEYVSQHDNTDLLVIIDDMAEAMNMGRISNFYRKLKGVLDMISPNEYLRLIRLKKAAQLLKOGR. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGN. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRISLLRKIKMLSNLISPVDFIRLIRLKAAELTHEGK.
BT4673 BT2897 BT2923 BT2860 BT4111	1225 1237 1223 1406	VFIQKLNEYVSQHLDNTDLVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDGR. EFMKKLNEILQGNFHNPDFSMDDIVDSLNMSRISNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGN. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRISSLLRKIKMLSNLSPVDFIRLIRLRKAAELIHEGK. KFMDKLVDLMEQNMDNGELVVDDLVRELAVSRIVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG
BT4673 BT2897 BT2923 BT2860	1225 1237 1223	VFTQKLNEYVSQHDNTDLLVIIDDMAEAMNMGRISNFYRKLKGVLDMISPNEYLRLIRLKKAAQLLKOGR. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGN. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRISLLRKIKMLSNLISPVDFIRLIRLKAAELTHEGK.
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	1225 1237 1223 1406 1226 1317 1237	VFIQKLNEYVSQHDDNTDLVVIDDMAEAMNMGRISMFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMKKVIRTIEEN IIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELLHEG.K. KFMDKLVDLMEQNMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELIQGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRIVFYYRKIKALSGMSPNDYLKALRMNKAAELIQGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRIVFYYRKIRGVIGYSPNEYLRVVRMKKAAELL.LS.GE KFLQSVLKIINDNITNKDLTPRYIADRLAISPRSLYRKMEELGEDSPTDLIKECRLHIAKDLLLTT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097	1225 1237 1223 1406 1226 1317 1237 1239	VFT CKLNEYVSQHDNTDLVIIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R.EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRISNFYRKIKGVLDMSPNEYLRLERLKRAAQLLKEGG.N.EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRISNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N.EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRISLLRKIKMISNLSPVDFIRIIRLKAAELIHEG.K.KFMDKLVDLMEQMMDNGELVVVDDLVRELAVSRISVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETGEFVAKIQEVIADQLADENFSIDTLAEQMNMSRISSNFYRKIKALSGMSPNDYLKALRMNKAAELIGGG.T.GEFVAKIQEVIADQLADENFSIDTLAEQMNMSRISSNFYRKIKALSGMSPNDYLKALRMNKAAELIGGG.T.GEFADRLAVVLLEQNLSRPEFSIDEFAQLMKLGRIVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.LSGEKPLOSVLKIINNNITNKDLTPRYIADRLAISPRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLTT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628	1225 1237 1223 1406 1226 1317 1237	VFIQKLNEYVSQHDDNTDLVVIDDMAEAMNMGRISMFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDMSPNEYLRLERLKRAAQLLKEG.N. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. KFMDKLVDLMEQNMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLQGG.T. EFADRLAVVLEQAUSPPEFSIDEFAQLMKLGFTVFYRKLRGVTGYSPNEYLKAVRMKKAAELL LS.GG.T. KFLQSVLKIINDNITNKDLTPRYIADRLAISPRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTT VFMKELVDLIMANIKDEEFGVFBIITHMKVSRSLLHTKLKSLTGCSITQFMRTIKMKEA.KIHLQN.G. EMLDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILSIRLKKGAVMIRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISPRSLYRKMEEMGEESPTIMIKECRLYVAKDLLLKT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	1225 1237 1223 1406 1226 1317 1237 1239 1238 1237 1248	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDUSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSSISNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELLGGG.T.G EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EFDARLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G.G. EMLDRAMAIIEQHDDNTDFNVNIFAREMGMARTNLFTKLKAVTGGTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSLYRKMEEMGEESPTIMIKECRLYVAKDLLKT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049	1225 1237 1223 1406 1226 1317 1237 1239 1238 1237 1248 1264	VFTOKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKOG.R.  EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDUSPNEYLRLERLKRAAQLLKEGG.N.  EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKKAAQLILKEG.N.  KFMDKLVDLMEQMMDNGELVVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG  EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELL.GGG.T.  EFADRLAVVLEONLSRPEFSIDEFAQLMKLGRTVFYRKIKALSGMSPNDYLKALRMNKAAELL.GG.T.  VFMKELVULIMANIKDEEFGVTEIITHMKVSRSLLHTKLKGCSITQFMRTIKMKEA.KIHLQN.G.  EMDDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILISIRLKKGAVMLRNN.P.  KFQQSVLKIINDNTOKDUTPRVIADLAISVRSLLHTKLKSLTGCSITQFMRTIKMKEA.KIHLQN.G.  EMDDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILISIRLKKGAVMLRNN.P.  KFQQSVLKIINDHTQEKELTPRFIADHLAISVRSLYRKMEEMGESPTIMIKECRLYVAKDLLLKT  ALLKRAMAIVEKNMDNIEFSTDEFAREMNMSRSNLHLKLKAITGESTIDFIRKIRFNEAAKLLGG.R.
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663	1225 1237 1223 1406 1226 1317 1237 1239 1238 1237 1248	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDUSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSSISNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELLGGG.T.G EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EFDARLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G.G. EMLDRAMAIIEQHDDNTDFNVNIFAREMGMARTNLFTKLKAVTGGTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSLYRKMEEMGEESPTIMIKECRLYVAKDLLKT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT33334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366	1225 1237 1223 1406 1226 1317 1237 1238 1237 1248 1248 1246 1241 1312	VFTOKILNEYVSQHIDNTDILVIIDDMAEAMNMGRISNFYRKIKIGVIDMSPNEYLRILTRIKKAAQLIKOG.R. EFMKKILNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKIGVIDISPNEYLRILTRIKKAAQLIKOG.R. EFMNKVIRTIEENIIDTNILNVEHLAEILGMSRSSLIRKIKMLSNISPVDFIRIIRIRKAAELIHEG.K. KFMDKIVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKIKITLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELI.GGG.T. EFDADRLAVVLEONLSRPEFSIDEFAQLMKLGRTVFYRKIKALSGMSPNDYLKALRMNKAAELI.GGG.T. FFADRLAVVLEONLSRPEFSIDEFAQLMKLGRTVFYRKIKALSGMSPNDYLKOVRMKKAAELI.GG.T.T. VFMKELVULIMANIKDEEFGVTEIITHMKVSRSLIHTKIKGCSITGFMRTIKMKEA.KIHLQN.G. EMDDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGGTPNDFILISIRIKKGAVMIRNN.P. KFQQSVLKIINDHTQEKELTPRFIADHLAISVRSLYRKMEEMGEESPTIMIKECRIYVAKDLILKT ALLKRAMAIVEKNMDNIEFSTDEFAREMNMSRSNIHLKLKAAITGESTIDFIRKIRFNEAAKLIKG.R. EFTEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKEALTLISTNEYRITIRVKMQNAERLLLEG.K. SFFEKMMQIIDSHQNTDLSVELLSSSLGYSTROFYRKKKKALTGLSTNEYRIKVKMQNAERLLLEG.K. SFFEKMMQIIDSHQNTDLSVELLISSSLGYSTROFYRKKKKLNVTEKTPADIIREVKILTUERLLITT
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT33334 BT3786 BT4663 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734	1225 1237 1223 1406 1226 1317 1237 1238 1237 1248 1264 1241 1312 1220	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLIGGG.T.G EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GS.G.FVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLIGGG.T.G EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GS.GE KFLQSVLKIINDNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLITT WMKELVDLIMAMIKDEEFGVTBIITHMKVSRSLLHTKLKKSLTGCSITQFMRTIKMKEA,KHLQN.G. EMLDRAMAIIEQHDNTDFNVNIFAREMGMARTNLFTKLKKAVTGQTPNDFILISIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSLYRKMEEEMGEESPTIMIKECRLYVAKDLLLKT ALLKRAMAIVENMMDNIEFSTBEFAREMNMSRSNLHLKLKAVTGQTPNDFILISIRLKKGAVMLRNN.P. EFTEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMEEMGEESPTIMIKECRLYVAKDLLLKT ELTEKITQLVENNLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHIQNFOLVELLSSSLGYSTROFYRKLKNVTEKTPADIIRLYRVKMQNAERLLLEG.K. EFTEKITQLVENNUNSFENDDFDLVTALASELCMGRSKLYMGFKQMTGLTPNEFILKVKLDEAMSLLTEH.P. ELLTKCVNIVRENFENPDFDVTALASELCMGRSKLYMGFKQMTGLTPNEFILKVKLDEAMSLLTEH.P. KFLNOVMEVIKENYKNSFEVSDFCEAVGVSKSLLNKKLQNTGLTPNEFILKVKLDEAMSLLTEH.P. KFLNOVMEVIKENYKNSFEVSDFCEAVGVSKSLLNKKLQNTGLTPNEFILKVKLDEAMSLLTEH.P. KFLNOVMEVIKENYKNSFEVSDFCEAVGVSKSLLNKKLQNTGLTPNEFILKVKLDEAMSLLTEH.KRETK
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT33334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366	1225 1237 1223 1406 1226 1317 1237 1238 1237 1248 1248 1246 1241 1312	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDUSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELTHEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLQGG.T. EFAARLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELLQGG.T. EFABRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GGG.T. EFABRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T.G. EKLQSVLKIINDNITNKDLTPRYIADRLAISRRSLYRKMEEIGEDSPTDLIKECRIHIAKDLLLTT. EFABRLAVVLLIMANIKDEEFGVTRIITHMKVSRSLLHTKLKSLTGCSITQFMRTIKMKEA.KIRLQN.G. EMLDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKALVTGQTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSLYRKMEEMGEESPTIMIKECRLYVVAKDLLLKT. EFIEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKAALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKKINVTEKTPADIIRPYRLTIVERLLLTT. EFILTKCVNIVRENFENPDFDVTALLSSELCMGRSRKLYMOFKOMMTLIPNEFILRVKUDEAMALTELLEG.K. KFIANVKKNIEDNIDNPALTVUDVLCNLMGMSRTSFYNKLKALDQAPGDYIRNIRLRKSVKLLKRG.T.K. KFIANVKKNIEDNIDNPALTVUDVLCNLMGMSRTSFYNKLKALTGQSAGGFIRNYRINIARELLLKNRETK
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3009 BT3009 BT3019 BT3049 BT3786 BT4663 BT3049 BT3738 BT4182 BT1635	1225 1237 1223 1406 1317 1237 1238 1237 1248 1264 1241 1312 1220 1225 1315 1208	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPVDFIRLIRLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.G.G. EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.G.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.G.G. EFDSVLKIINDNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTT EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GS.GE KFLQSVLKIINDNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTG. EMLDRAMAIIEQHDDNTDFNVNIERREMGMARNLFTKLKSLTGCSITQFMRTIKMKEA.KHLQN.G. EMLDRAMAIIEQHDDNTDFNVNIERREMGMARNLFTKLKAVTGGTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSLYRKMEEMGEESPTIMIKECRLYVAKDLLLKT ALLKRAMAIVENNMDNIEFSTDEFAREMNMSRINLHLKLKAATGESTTDFIRRIKRFNEAAKLLKDG.R. EFTEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHQNTDLSVELLSSSLGYSTROFYRKLKNVTEKTPADIIREYRLTIVERLLLTT ELLTKCVNIVRENFENPDFDVTALASELCMGRSKLYMGFKQMTGLTPNEFILRVKLDEAMSLLTEH.P. KFIANVKNIEDNIDNPALITVOVLCNLMGMSRFSFYNKLKALLTOGARGPGVIRNYLINIARELLLKNRETK KFIANVKNNEDNIDNPALITUVOVLCNLMGMSRFSFYNKLKALLTGQRAPGDYIRNIRLKKRSVKLUKEG.K. KFIANVKNIEDNIDNPALITUVOVLCNLMGMSRFSFYNKLKALLTGGARGPGDYBIRNIRLKKRSVKLUKGE. ENSVKLNEVLNEHMTDTDFSVNDFAGMGGLGRTVYKKVRUFGYSPYYLRUMMKKAAEML.LTE
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT4182 BT4182 BT4182	1225 1237 1226 1317 1239 1238 1237 1244 1246 1241 1312 1220 1225 1315 1218	VFT CKLNEY V'S Q H LD N T D LIVIED DM AE AMNMG RISN FY R K LK GV LD MS P NEY LR LIR LK K AAQ LL K DG . R .  E FMKK L NE I I Q G N F H N P D F S M D D I V D S L N MS R S N FY R K I K GV L D LS P NEY LR LE R LK R AAQ LL K EG . N .  E FM N K V I R T I EE N I I D T N L N VE H LA E I L G MS R S S LL R K I K ML S N LS P V F I R LIR LK AAQ LL K EG . N .  K FM K V I V D L ME Q M M D N G EL V V D D L V R E LA V S R S V F F K K L K I K L S L D P V F I R LIR LK AAQ L I . E T
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3009 BT3009 BT3019 BT3049 BT3786 BT4663 BT3049 BT3738 BT4182 BT1635	1225 1237 1223 1406 1317 1237 1238 1237 1248 1264 1241 1312 1220 1225 1315 1208	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPVDFIRLIRLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.G.G. EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.G.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.G.G. EFDSVLKIINDNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTT EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GS.GE KFLQSVLKIINDNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTG. EMLDRAMAIIEQHDDNTDFNVNIERREMGMARNLFTKLKSLTGCSITQFMRTIKMKEA.KHLQN.G. EMLDRAMAIIEQHDDNTDFNVNIERREMGMARNLFTKLKAVTGGTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSLYRKMEEMGEESPTIMIKECRLYVAKDLLLKT ALLKRAMAIVENNMDNIEFSTDEFAREMNMSRINLHLKLKAATGESTTDFIRRIKRFNEAAKLLKDG.R. EFTEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHQNTDLSVELLSSSLGYSTROFYRKLKNVTEKTPADIIREYRLTIVERLLLTT ELLTKCVNIVRENFENPDFDVTALASELCMGRSKLYMGFKQMTGLTPNEFILRVKLDEAMSLLTEH.P. KFIANVKNIEDNIDNPALITVOVLCNLMGMSRFSFYNKLKALLTOGARGPGVIRNYLINIARELLLKNRETK KFIANVKNNEDNIDNPALITUVOVLCNLMGMSRFSFYNKLKALLTGQRAPGDYIRNIRLKKRSVKLUKEG.K. KFIANVKNIEDNIDNPALITUVOVLCNLMGMSRFSFYNKLKALLTGGARGPGDYBIRNIRLKKRSVKLUKGE. ENSVKLNEVLNEHMTDTDFSVNDFAGMGGLGRTVYKKVRUFGYSPYYLRUMMKKAAEML.LTE
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678	1225 1237 1406 1226 1317 1237 1238 1248 1244 1246 1241 1312 1225 1315 1215 1211 1212 1211	VFT CKLNEY V'S Q H LD N T D LIVIED D MAEAMNMG RISN FY R K LK GV LD MS P NEY LR LT R LK K AAQ LL K DG . R .  E FMKK L NE I I Q G N F H N P D F S M D D I V D S L N MS R S N FY R K I K GV L D LS P NEY LR LE R LK R AAQ LL K EG . N .  E FM NK V I R T I E E N I I D T N L N V E H LA E I L G MS R S S L L R K I K ML S N LS P V F I R LI R LK K AAQ LL K EG . N .  K FM K V I V D L ME Q M M D N G E L V V D D L V R E L AV S R S V F F K K L K T L T C LA P I E F I K EM R I K R AAQ L I . E T
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT3951 BT3951 BT3678 BT3678	1225 1223 1406 1226 1317 1237 1238 1237 1248 1246 1241 1312 1220 1225 1315 1208 1211 1212 1211 1212	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLIGGG.G.G. EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLIGGG.G.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLIGGG.G.G. EFDARLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GS.GE KFLQSVLKIINNNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTT. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GS.GE EMLDRAMAIIEQHDDNTDFNVNIFAREMGMARTNLFTKLKAVTGGTPNDFILLSIRLKKGAVMLRNN.P. KFQQSVLKIINNDHIQEKELTPRFIADHLAISSRSLLHTKLKALTGGSTTQFFMRTIKMKEA.KHLQNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSULFTKLKAVTGGTPNDFILLSIRLKKGAVMLRNN.P. EFIEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMEEMGEESPTIMIKECRLYVAKDLLKT  EFIEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKNVTEKTPADIIREYRLTIVERLLLTT  ELLTKCVNIVRENFENPDFDVTALASELCMGRSKLYMQFKQMTGLTPNEFILKVKLDEAMSLLLEG.K. KFIANVKNIEDNIDNPALITVOLLCNLMGMSBFSFYNKLKALTGGAAQDIRNYRLNIARELLLKRSVKLLEGG.TK KFIANVKNNIEDNIDNPALIVOVLCNLMGMSBFSFYNKLKALTGGAAQDYRNRIKTLKKRSVKLLKEG.TK KFIASVKECIEKNMGDLDFGVDVLSNQHHMSRTSFYNKLKALTGGAAQDYRNKRMEQA.LLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVRALTGGAAQDYRNKRMEQA.LLLKGS.C.E. DFTRKLLVVLEDNLDSSRILDIFFICKEIGMSSRLYVFYKKVRGPSPYPYLKUMMRKKAAEMI.LTE  DFTRKLLVNIRDHNDAFSVEVUNDLHNMSRTRFYYNKLKALTGLSTNEYRIKWREQA.LLLKGG.E. DFTRKLLVVIECNLDGEELGSTLIADRMAMSRRFYYKKLKSLAGLUNTSSFIRNVRLKAACILLKGG.E. DFTRKLLQVIECNNDQEELGSTLIADRMAMSRTRFYYKKLKSLAGLUNTSSFIRNVRLKAACLUNE  DFTRKLLQVIECNNDQEELGSTLIADRMAMSRTRFYYKLKKSLICUNTSSFIRNVRLKAACRILLEG.LD.
BT4673 BT2897 BT2823 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3049 BT3302 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT4182 BT1635 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT4124 BT3678	1225 1237 1406 1226 1317 1237 1238 1237 1246 1241 1312 1220 1225 1315 1211 1212 1211 1212 1211 1272	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLIGGG.G.G. EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKALSGMSPNDYLKALRMNKAAELLIGGG.G.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLIGGG.G.G. EFDARLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GS.GE KFLQSVLKIINNNITNKDLTPRYIADRLAISFRSLYRKMEEIGEDSPTDLIKECRLHIAKDLLLTT. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GS.GE EMLDRAMAIIEQHDDNTDFNVNIFAREMGMARTNLFTKLKAVTGGTPNDFILLSIRLKKGAVMLRNN.P. KFQQSVLKIINNDHIQEKELTPRFIADHLAISSRSLLHTKLKALTGGSTTQFFMRTIKMKEA.KHLQNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISVRSULFTKLKAVTGGTPNDFILLSIRLKKGAVMLRNN.P. EFIEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMEEMGEESPTIMIKECRLYVAKDLLKT  EFIEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKNVTEKTPADIIREYRLTIVERLLLTT  ELLTKCVNIVRENFENPDFDVTALASELCMGRSKLYMQFKQMTGLTPNEFILKVKLDEAMSLLLEG.K. KFIANVKNIEDNIDNPALITVOLLCNLMGMSBFSFYNKLKALTGGAAQDIRNYRLNIARELLLKRSVKLLEGG.TK KFIANVKNNIEDNIDNPALIVOVLCNLMGMSBFSFYNKLKALTGGAAQDYRNRIKTLKKRSVKLLKEG.TK KFIASVKECIEKNMGDLDFGVDVLSNQHHMSRTSFYNKLKALTGGAAQDYRNKRMEQA.LLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVRALTGGAAQDYRNKRMEQA.LLLKGS.C.E. DFTRKLLVVLEDNLDSSRILDIFFICKEIGMSSRLYVFYKKVRGPSPYPYLKUMMRKKAAEMI.LTE  DFTRKLLVNIRDHNDAFSVEVUNDLHNMSRTRFYYNKLKALTGLSTNEYRIKWREQA.LLLKGG.E. DFTRKLLVVIECNLDGEELGSTLIADRMAMSRRFYYKKLKSLAGLUNTSSFIRNVRLKAACILLKGG.E. DFTRKLLQVIECNNDQEELGSTLIADRMAMSRTRFYYKKLKSLAGLUNTSSFIRNVRLKAACLUNE  DFTRKLLQVIECNNDQEELGSTLIADRMAMSRTRFYYKLKKSLICUNTSSFIRNVRLKAACRILLEG.LD.
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BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT17734 BT3738 BT4182 BT4182 BT1635 BT3951 BT0958 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172	1225 1237 1406 1226 1317 1237 1238 1237 1238 1241 1241 1312 1225 1315 1211 1212 1211 1272 1346 1267 1269 1227	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKOG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELLKEG.N. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTCLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSSSNFYRKIKALSGMSPNDYLKALRMNKAAELLIQGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLKGVTGYSPNEYLRVVRMKKAAELLQGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLRGVTGYSPNEYLRVVRMKKAAELL.GG.T. TOWFMKELVDLIMANIKDEEFGVTRITHMKVSRSLLHTKLKSLTGCSITQFFMRTIKMKEAK.HLQON.G EMLDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTFRFIADHLAISYRSLYRKMEEMGEESPTIMMIKECRLYVAKDLLLKT LALKRAMAIVEKMMDNIEFSTDEFFAREMNMSRSNIHLKLKAITGESTIDFIRKIRFNEAAKLLKDG.R. EFIEKITQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMKALTCLSTNEYIIRVKMQNAERLLLEG.K. SFFEKMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTECTTPNEFILRVKMQNAERLLLEG.K. KFIANVKRNIEDNIDNPALTVUVULCNLMGMSRTSFYNKLKALTGQSAGGFIRNYRINIARELLKKRETK KFIANVKKNIEDNIDNPALTVUVULCNLMGMSRTSFYNKLKALTGQSAGGFIRNYRINIARELLKKRG.T. KFIANVKKNIEDNIDNPALTVUVULCNLMGMSRTSFYNKLKALTGQAPGDYIRNIRLQRAQLLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVKRGVTGYSPYEPLRVMRMKKAAEML.LTE KFIANVKKNIEDNIDNPALTVUDVLCNLMGMSRTSFYNKLKALTGQAPGDYIRNIRLQRAQLLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVKRGVTGYSPYEPLRVMRMKKAAEML.LTE DFIRKLLVURGENLDSSRLDIPFICKEIGMSRASLYNKLKALTDMGANDYINKFRMEQATLLLTGT DVVRKFLLQVIEQENLDSSRLDIFTICKEIGMSRASLYNKLKALTDMGANDYINKFRMEQATLLLTGT DFVRKFLQVIEQENLDSSRLDIFFICKEIGMSRASLYNKLKALTDMGANDYINKFRMEQATLLLTGT DFIRKLTRURGERDDLDGSTFVAEQMLMSSRCFYYRKKEISNAGSPDLIKGYRMEKAARLLQNE DFIRKLURGLIDSSRLDIFFICKEIGMSRASLYNKLKALTDMGANDYINKFRMEQATLLLITGT DFIRKLRFREEGESTILABROHVVLINGHMSRTTFYKKLKALTDLIPPEFIRNIRLKKAAQLL.DSG
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT4182 BT1635 BT4182 BT1635 BT4182 BT1635 BT4182 BT1635 BT3957 BT3678 BT4124 BT0267 BT3800 BT3172 BT3800 BT3172 BT3800 BT3172 BT3172 BT4137	1225 1237 1406 1226 1317 1237 1238 1237 1246 1246 1241 1312 1225 1315 1201 1211 1212 1211 1212 1211 127 1267 127 1203	VFTCKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKIKGVLDMSPNEYLRLIRLKKAAQLLKEGG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEGG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMISNLSPVDFIRIIRLKAAELIHEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKBMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKKALSGMSPNDYLKALRMNKAAELIGGG.G.G. EFVAKIQEVIADQLADENFSIDTLAEQMNMSRSNFYRKIKKALSGMSPNDYLKALRMNKAAELIGGG.G.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GGG.G.G. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELL.GGG.G.G. EFDAKILOSVLKIINNNITNKDLTPRYIADRLAISPRSLYRKMEEIGEDSPTDLIKCRLHIAKDLLTT WIMKELVDLIMAANIKDEEFGVTBIITHMKVSRSLLHTKLKKAVTGYSPNEYLRVVRMKKAAELL.GG.G.G. EMLDRAMAIIEQHDDNTDFNVNIFAREMGMARRNLFTKLKKAVTGOTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINNDHOLGKELITPRFIADHLAISVRSLYRKMEEMGEESPTIMIKERLYVAKDLLLKT ALKRAMAIVEKNMDNIEFSTDEFAREMMMSRSNLHLKLKAITGESTIDFIRKIRFNEAAKLLKDG.R. EFIEKITQLVENDLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRRVKMQNAERLLLEG.K. SFFEKMMQIIDSHIQNTDLSVELLSSSLGYSTROFYRKLKNVTEKTPADIIRRYKRVMQNAERLLLEG.K. EFIEKITQLVENDLSSEKIDITYLSDKMCMSGSTLYRKKKNVTEKTPADIIRRYKRVLDEAMSLLTEH.P. EKILIKCVNIVRENFENPDFDVTALASELGGRSKLYMGFKQNTGLTPNEFILKVKMQNAERLLLEG.K. EFIEKITQLVENDLSSEKIDITYLSDKMCMGSSTLYNKKLNUTEKTPADIIRRYKRVLDEAMSLLTEH.P. EKILIKCVNIVRENFENPDFDVTALASELGMGRSKLYMGFKQNTGLTPNEFILKVKMQNAERLLLEG.K. EFIEKNTQLVERDHSDNDFALTVOVLCNLMGMSRTSFYNKLKKLVTEKTPADIIRRYKRVLDEAMSLLTEH.P. EKILIKCVNIVRENFENPDFDVTALASELCMGRSKLYMGFKQMTGLTPNEFILKVKMQNAERLLLEG.K. ETASVKECIERNMGDLDFGVVVLSNQHHMSRTSFYNKLKALTDQAPGPYIRNIRLKKSVKLLKEG.T. EFILKLKLNKIIQENLDSSRLDIPFICKEIGMSRASLYNKLKALTDMGANDYINKFRMEQA.ILLLTGT DFVKKFLUVULDEHMTDTDTFSVNDFFAGIMGLGETVYYKKVKGVTGYAPADYINKIRLKKSVKLLKEG.T. EFILKLKLKNSNTFTVNEQAQFADEMRTSSFYNKLKALTDMGANDYINKFRMEQA.ILLLITGT DFVKKFLUVULDEHNDTDTFDVTALASELCMGRSSRLYNKLKALTDMGANDYINKFRMEQA.ILLLITGT DFVKKFLUVULDEHNDDNFAGLGGRGAMSSRSSLYNKLKALTDMGANDYINKFRMEGAILLITGT DFVKKFLUVULDEHNDDNFAGLGGGRGAMSSRSSLYNKLKALTDMGANDYINKFRIEG
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT17734 BT3738 BT4182 BT4182 BT1635 BT3951 BT0958 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172	1225 1237 1406 1226 1317 1237 1238 1237 1238 1241 1241 1312 1225 1315 1211 1212 1211 1272 1346 1267 1269 1227	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKOG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELLKEG.N. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSSSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFARQLMKLGRTVFYRKLKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAREMMSRSSLLHTKLKSLTGGSITQFMRTIKMKEA.KIFLQN.G. EMLDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILLSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISYRSLYRKMEEMGEESPTIMMIKECRLYVAKDLLLKT KFIEKTIQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMEEMGEESPTIMFIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. KFIANVKRNIEDDNIDNPALTVUDULCNLMGMSRTSFYNKLKALTQQAPGDYIRNITLIRLKKSVKLUEAMSLLTEH.P. KFILNVKNIEDHIDNPALTVUDULCNLMGMSRTSFYNKLKALTQQAPGDYIRNYRINIARELLLKNRETK KFIANVKECIEKNMGDLDFGVUVLSNQHMSSTSFYNKLKALTQAPADYIRNITRLQRAQLLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVKGVTGYSPYEYLRWMMKKAAEMM.LTTE DFVRKFLQVVEQNLDREDLGSTFVAEQMLMSSRGFYRFYKKKALLTGLSPQELIKTYRMRKKAAELLL.N EFTELKLKLKLIQVIEQULDSSRILDIFTICKEIGMSRASLYNKLKALTDGAPADYIRNITRLQRAQLLKQK.E. DFTTGKLLVNKITGENLDSSRILDIFTCKEIGMSRSLYNKLKALTDGAPADYIRNITRLQRAQLLKQK.E. DFTTGKLLVNKITGENLDSSRILDIFTCKEIGMSRSLYNKLKALTDGAPADYINKFREQ.A. ILLIT.GT DFVRKFLQVVEQNLDREDLGSTFVAEQMLMSSRGFYRFYKKEKEINAAQLIKGLSPIERNITRLKKARGLLCN EFTELKKALTUVITGANAGETTATA
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4162 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172 BT2826 BT31134 BT2826	1225 1223 1406 1226 1237 1237 1238 1238 1248 1264 1241 1312 1225 1315 1208 1211 1272 1211 1272 1211 1272 1204 1204 1204 1204 1204 1204 1205	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKOG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELLKEG.N. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSSSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFARQLMKLGRTVFYRKLKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAREMMSRSSLLHTKLKSLTGGSITQFMRTIKMKEA.KIFLQN.G. EMLDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILLSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISYRSLYRKMEEMGEESPTIMMIKECRLYVAKDLLLKT KFIEKTIQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMEEMGEESPTIMFIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. KFIANVKRNIEDDNIDNPALTVUDULCNLMGMSRTSFYNKLKALTQQAPGDYIRNITLIRLKKSVKLUEAMSLLTEH.P. KFILNVKNIEDHIDNPALTVUDULCNLMGMSRTSFYNKLKALTQQAPGDYIRNYRINIARELLLKNRETK KFIANVKECIEKNMGDLDFGVUVLSNQHMSSTSFYNKLKALTQAPADYIRNITRLQRAQLLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVKGVTGYSPYEYLRWMMKKAAEMM.LTTE DFVRKFLQVVEQNLDREDLGSTFVAEQMLMSSRGFYRFYKKKALLTGLSPQELIKTYRMRKKAAELLL.N EFTELKLKLKLIQVIEQULDSSRILDIFTICKEIGMSRASLYNKLKALTDGAPADYIRNITRLQRAQLLKQK.E. DFTTGKLLVNKITGENLDSSRILDIFTCKEIGMSRSLYNKLKALTDGAPADYIRNITRLQRAQLLKQK.E. DFTTGKLLVNKITGENLDSSRILDIFTCKEIGMSRSLYNKLKALTDGAPADYINKFREQ.A. ILLIT.GT DFVRKFLQVVEQNLDREDLGSTFVAEQMLMSSRGFYRFYKKEKEINAAQLIKGLSPIERNITRLKKARGLLCN EFTELKKALTUVITGANAGETTATA
BT4673 BT2897 BT2287 BT22860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3009 BT3302 BT2971 BT0366 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3870 BT4124 BT0267 BT2391 BT3800 BT3172 BT4137 BT2826 BT3134 BT4236 BT3134	1225 1237 1406 1226 1317 1237 1238 1248 1241 1241 1212 1225 1315 1211 1212 1346 1267 1267 1267 1267 1267 1267 1267 126	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKDG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMNKVIRTIEENIIDTNLNVBHLAEILGMSRSSLLRKIKMLSNLSPVDFIRIIRLKAAELIKEG.K. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFDARLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAREMMSRSSLHTKLKSLTGCSITQFMRTIKMKEA.KIHLQN.G. EMLDRAMAIIEQHLDNTDFNVNIFAREMMGRARTNLFTKLKAVTGQTPNDFILSIRLKKGAVMLRNN.P. KFQQSVLKIINNHIQEKELTPRFIADHLAISYRSLYRKMEEMGESPTIMIKECRLYVAKDLLLKT EFIEKITQLVEDDLSSEKIDITYLSDKMCMSGSTLYRKMEEMGESPTIMIKECRLYVAKDLLLKT EFIEKITQLVEDDLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRKVKMQNAERLLLEG.K. EFIEKITQLVEDDLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRKVKMQNAERLLLEG.K. EFIEKITQLVEDDLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRKVKMQNAERLLLEG.K. EFIEKITQLVEDDLSSEKIDITYLSDKMCMSGSTLYRKMKALTGLSTNEYIRKVKMQNAERLLLEG.K. EFIEKMVINKNIEDDLNDPALITVDLLCNLMGMSRTSFYNKLKALTGGSAGGFIRNYRLINIARELLLKNRETK KFIANVKKNIEDDLIDNPALITVDVLCNLMGMSRTSFYNKLKALTGGSAGGFIRNYRLINIARELLLKKRETK KFIANVKNIEDDLIDNPALITVDVLCNLMGMSRTSFYNKLKALTGGSAGGFIRNYRLINIARELLLKKRCTK KFIANVKNIEDDLIDSRILDTPICKEIGMSSSTYVFYKKVKGGVTGYSPYPYLMMRKKAAEMI.LTE EFILKKLKVILDENIDSSRILDIFFICKEIGMSSFYNKLKALTGLSPAPDYIRILTKKSVKLUEGG.T. DFVKKFLQVVEQNLDSSRILDIFFICKEIGMSSFYNKLKALTGLSPQLIKNYRMEQALLKQK.E.  FTLLKKNKTIEDNINNPAFSVEVUNDLHNMSSTTFYYNKLKALTGLSPQLIKNYRMEQALLKQK.E.  FTLLKVKITGENNDAGEGDFDVVQLADALAVSKSSLYKKKLALTDMGANDYINNFRMEQAL.LLL.DSG  EFLDKVISVINNSNSEGDFDVVQLADALAVSKSSLYKKKKLALTGLGANDYINNFRMEQA.LLLLDE  FTLIKLKALTHAMA
BT4673 BT2897 BT2923 BT2860 BT4111 BT3465 BT4178 BT2628 BT3097 BT3334 BT3786 BT4663 BT3049 BT3302 BT2971 BT0366 BT1734 BT3738 BT4162 BT1734 BT3738 BT4182 BT1635 BT3951 BT0958 BT3957 BT3678 BT4124 BT0267 BT2391 BT3800 BT3172 BT2826 BT31134 BT2826	1225 1223 1406 1226 1237 1237 1238 1238 1248 1264 1241 1312 1225 1315 1208 1211 1272 1211 1272 1211 1272 1204 1204 1204 1204 1204 1204 1205	VFT CKLNEYVSQHDNTDLVVIDDMAEAMNMGRISNFYRKLKGVLDMSPNEYLRLIRLKKAAQLLKOG.R. EFMKKLNEIIQGNFHNPDFSMDDIVDSLNMSRSNFYRKIKGVLDLSPNEYLRLERLKRAAQLLKEG.N. EFMNKVIRTIEENIIDTNLNVEHLAEILGMSRSSLLRKIKMLSNLSPVDFIRLIRLKAAELLKEG.N. KFMDKLVDLMEQMMDNGELVVDDLVRELAVSRSVFFKKLKTLTGLAPIEFIKEMRIKRAAQLI.ETG EFVAKIQEVIADQLADENFSIDTLAEQMNMSSSNFYRKIKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAQLMKLGRTVFYRKLKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFARQLMKLGRTVFYRKLKALSGMSPNDYLKALRMNKAAELLGGG.T. EFADRLAVVLEQNLSRPEFSIDEFAREMMSRSSLLHTKLKSLTGGSITQFMRTIKMKEA.KIFLQN.G. EMLDRAMAIIEQHLDNTDFNVNIFAREMGMARTNLFTKLKAVTGQTPNDFILLSIRLKKGAVMLRNN.P. KFQQSVLKIINDHIQEKELTPRFIADHLAISYRSLYRKMEEMGEESPTIMMIKECRLYVAKDLLLKT KFIEKTIQLVEDNLSSEKIDITYLSDKMCMSGSTLYRKMEEMGEESPTIMFIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. SFFERMMQIIDSHIQNTDLSVELLSSSLGYSTRQFYRKLKATTGLSTNEYIRKVKMQNAERLLLEG.K. KFIANVKRNIEDDNIDNPALTVUDULCNLMGMSRTSFYNKLKALTQQAPGDYIRNITLIRLKKSVKLUEAMSLLTEH.P. KFILNVKNIEDHIDNPALTVUDULCNLMGMSRTSFYNKLKALTQQAPGDYIRNYRINIARELLLKNRETK KFIANVKECIEKNMGDLDFGVUVLSNQHMSSTSFYNKLKALTQAPADYIRNITRLQRAQLLKQK.E. KFSVKLNEVLNEHMTDTDFSVNDFAGIMGLGRTVFYKKVKGVTGYSPYEYLRWMMKKAAEMM.LTTE DFVRKFLQVVEQNLDREDLGSTFVAEQMLMSSRGFYRFYKKKALLTGLSPQELIKTYRMRKKAAELLL.N EFTELKLKLKLIQVIEQULDSSRILDIFTICKEIGMSRASLYNKLKALTDGAPADYIRNITRLQRAQLLKQK.E. DFTTGKLLVNKITGENLDSSRILDIFTCKEIGMSRSLYNKLKALTDGAPADYIRNITRLQRAQLLKQK.E. DFTTGKLLVNKITGENLDSSRILDIFTCKEIGMSRSLYNKLKALTDGAPADYINKFREQ.A. ILLIT.GT DFVRKFLQVVEQNLDREDLGSTFVAEQMLMSSRGFYRFYKKEKEINAAQLIKGLSPIERNITRLKKARGLLCN EFTELKKALTUVITGANAGETTATA

raC-HTH Domain

BT4673		
BT4673	1144	KFTVAEVMYMV <b>G</b> FSNHSYFSKC <b>B</b> OABFGKT <b>P</b> ROYLNDGL
BT2897	1292	YGIVEISYMVGFNSSIFSACHVALIGALIGAVILANGL
BT2897 BT2923	1304	GRVNEICYMVGFNSPSIFSNCHANQEGVLENDEMQ.
BT2923 BT2860		
BT2860 BT4111	1290 1472	
BT4111 BT3465	1293	
BT4178	1384	NLTVAEVAYKV <mark>C</mark> ISDPFYFSKCEKTQFGVAPSVYQRGEMKEQGEN.ETAEA
BT2628	1303	KKTIDEIVFDS <mark>G</mark> FSNKV <mark>TFFK</mark> V <mark>PREKYECTPK</mark> EFRQKHLAEVQ
BT3097	1305	MNVSEASYAV <mark>G</mark> MSDPNYFTKCFKKEFNITPTEFIKQLNL
BT3334	1305	ELNITEISDRI <mark>g</mark> esssr <mark>yfskor</mark> keiyhv <mark>spl</mark> ayrkgeekeeegneetdo
BT3786	1303	KKTIDEIVFEAGFSNKVTFFKVFREKYGCTPKEFRTKHLEEVQ
BT4663	1315	YTVAEVSTMV <mark>C</mark> FNTPSYFATSEKKYFGCLPTEYIKKSKG
BT3049	1331	YNISEIAYKI <mark>G</mark> MNSTG <mark>yfrq</mark> C <mark>e</mark> kdefgvs <mark>ps</mark> dylkqftsptpppss
BT3302	1312	QLSIEEIMDKTGFSNRGTFYKABAOKFEMTPKQYRNIKTKDVHEASEEGGGTMNV
BT2971	1308	ELNITEISVRI <mark>G</mark> FSSPR <mark>YFSK</mark> S <mark>PKAFF</mark> GI <mark>APQ</mark> GVRSRKE
BT0366	1382	NMN <mark>IAEV</mark> AYEV <mark>GFN</mark> DPKYFTRCFTKHFNVTPSALLNNEE
BT1734	1287	. HSITEIAEMT <mark>G</mark> FSDAK <mark>YFREVEKHFNVSPS</mark> QYGKEGKPHKEGKAGKENKSDKEGGEKEE
BT3738	1292	YTITEIAEIV <mark>G</mark> FSDAK <mark>YFRE</mark> V <mark>E</mark> KKYYNV <mark>SPS</mark> KFVNSDQE
BT4182	1381	DLTIAEVAYSV <mark>G</mark> INDPF <mark>YFSKCEKNO</mark> FGV <mark>SPS</mark> AYRKKLSEDENEPINDADV
BT1635	1274	EMS <mark>FTEI</mark> AEKV <mark>G</mark> FTTSRYFSTT <mark>F</mark> KQYTGE <mark>TPT</mark> QYKEKHKRETSKTINQ
BT3951	1277	ELS <mark>IQDV</mark> ISDV <mark>GIS</mark> SRAYFYKE <mark>FTR</mark> KFGV <mark>TPK</mark> VYREKLLGNDTHKNQE
BT0958	1279	YN <mark>ITEI</mark> SEMC <mark>GFS</mark> ESKYFREV <mark>F</mark> KKEYKMS <mark>PS</mark> QYAKKYSISSSGIIEDDSDE
BT3957	1277	ELS <mark>IQDV</mark> IAEV <mark>G</mark> ISSRSYFYKE <mark>FTR</mark> RFGMT <mark>P</mark> KDYREQLR
BT3678	1340	NVR <mark>VSEL</mark> AYAV <mark>C</mark> FNDPK <mark>YFSSCEKKEFDMLPS</mark> EYLERFLONV
BT4124	1412	EYN <mark>FSQV</mark> AYMT <mark>G</mark> FNDPK <mark>YFSK</mark> C <mark>EKK</mark> VVGI <mark>TES</mark> EYKEK.NK
BT0267	1333	SIS <mark>VAEV</mark> AYEC <mark>G</mark> FSNPK <mark>YFAT</mark> C <mark>P</mark> KEEFGVT <mark>P</mark> KEYQKSC
BT2391	1336	YSS <mark>LTEV</mark> AEMV <mark>G</mark> YDSMI <mark>SFRKQE</mark> VAQFGVL <mark>PS</mark> KYMEEKMRK
BT3800	1294	YS. IQEISEMV <mark>C</mark> YSDTR <u>TLRKHEMEQFGVSPS</u> KYMGSTDR
BT3172	1270	EMTFTEISEEV <mark>G</mark> FTSPS <mark>YFSTAEK</mark> QYTGETPTQYKEKTSKI
BT4137	1269	DFTFTDISEKV <mark>C</mark> FTTIS <mark>YFSTAEK</mark> QYTGETPTAYRSRQKKKE
BT2826	1267	TMN <mark>ITEI</mark> SEVV <mark>G</mark> FS SLRYFSKV <mark>F</mark> KS IKGEI <mark>PS</mark>  AYRKQDK
BT3134	1213	YRIGDICYMV <mark>G</mark> INSPS <mark>YFSKLELKOFGMTPK</mark> DFEKQYQSGKQIIITQEIKNVEAGEGTK.
BT4236	1352	YA. VQEVAEMV <mark>G</mark> YNDIPTFRKHEVDAFGTTPSTYE
BT0981	1432	DLS <mark>VSEV</mark> AFAV <mark>C</mark> FKDSGYYSKCERKKYNOTEREYMNEWRKG
BT0138	871	RYTLTALAELC <mark>G</mark> FSSRASFFRSEKKSTGVTPNEYIRSIGGTAKDE
BT3660	863	KLS <mark>VTEI</mark> AERT <mark>G</mark> FSSSS <mark>YLSK</mark> C <mark>EQEM</mark> YGC <mark>RES</mark> EYTEKAKKST
consensus>50		i.eivGfyfFfgPy
		AraC-HTH Domain