

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT...NFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGE	AAN.QKVSVVSSGSLALD	I	ALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK...KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGERAE	.QKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK...KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGERAE	.QKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK...KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGERAE	.QKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK...KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGERAE	.QKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK...KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGERAE	.QKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK...KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGERAE	.QKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK...KNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGERAE	.QKVQVMSSGSLALD	I	ALGAGGYPKGRIT	75
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK...KTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGERAE	.QKVQVMSSGSLALD	I	ALGAGGYPKGRIV	75
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQ	FGKGSIMKLGEKTD	.TRISTVPSGSLALD	T	ALGIGGYPGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEKVD	.TQVSTVSSGSLALD	E	ALGVGGYPGRIV	62
NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD....ATKEISAPTD	AKERSKATETAM	QIEKAFGKGSIMKLGAESK	.LDVQVVSTGSLSLD	L	ALGVGGIPGRIT	74
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLSDAALKSLDKT	FGKGTILRLGDK	KEV.EQIDSIGTGSVGLD	L	ALGIGGVPKGRIT	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKAIISLAIKQIDKV	FGKGALVRLGDKQV	.EKIDSISTGSLGLDL	L	ALGIGGVPKGRIT	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKAIISLAIKQIDKV	FGKGALVRLGDKQV	.EKIDAISTGSLGLDL	L	ALGIGGVPKGRIT	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	IEVIPS	GSGLGLDLALGVGGYPKGRIV	70
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	L	ALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	L	ALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	L	ALGVGGLPRGRIV	62
NTDB id 104960 A4W93 RS01155 WP 085748863.1	MDAAVKPATLNT	EKAKALQAALAQIEKQ	FGKGTIMRLGE	GEVIDDIDV	VSTGSLGLDA	ALGVGGLPRGRVV	71
NTDB id 1427 RS RS02760 WP 011000510.1	MEDGKKAASMSA	EKKQKALAAALAQIEKQ	FGKGSIMKMGDA	EV.EPVQVVSTGSLGLD	V	ALGVGGLPRGRVV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVQ	VEPEQKKQALEAALAQIEKQ	FGKGSIMKLGQTEQ	.LDIESVSTGSLGLDL	L	ALGIGGLPMGRIV	78
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	RA.MDVETISTGSLSLD	I	ALGAGGLPMGRIV	61
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	RA.MDVETISTGSLSLD	I	ALGAGGLPMGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	TV.QAVEAVSTGSLTLD	I	ALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	TV.QAVEAVSTGSLTLD	I	ALGIGGLPKGRIT	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGD	HDR.QAIPSISTGSLGLD	I	ALGIGGLPKGRIV	61
consensus		*** **	***	***!	***!*****	* ****!*!!!!!! !! !*!***	

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NTDB id 600 KW2 RS01765 WP 011675413.1	ELIYGPESSGKTTVALHAVAQKQGGTCAFI	DAEHALDPYAKALGVNIDELL	LSQPDYGEQGLQIAEK	LITSGAVDLVV	156
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 228 SPD RS09265 WP 001085462.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 194 SPR RS08825 WP 001085462.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 159 SP RS09750 WP 001085462.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 453 Spy49 1753c ACI62003.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 408 SMU RS09530 WP 002262392.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 115 BSU 16940 NP 389576.2	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 625 LCA RS02525 WP 011374196.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1313 DR RS12030 WP 010888966.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1245 Cj1673c YP 002345041.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1211 C694 RS00795 WP 000963128.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1214 NCTC11637 00359 SQJ03206.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1334 RAOC RS04870 WP 004918236.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1130 NGFG RS03960 WP 003688695.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1124 NGFG RS03960 WP 003688695.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1123 OK783 RS03845 WP 003688695.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 104960 A4W93 RS01155 WP 085748863.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1427 RS RS02760 WP 011000510.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1389 A4U84 RS07560 WP 021112712.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1165 A1552VC RS01565 WP 000344154.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1142 GTF74 RS11550 WP 000344154.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1022 ACIAD RS06390 WP 004925639.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1074 ABD1 RS10195 WP 000344167.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
NTDB id 1205 PSJM300 05545 AFN77183.1	ELIYGPESSGKTTVALHAVAQKQEGGIAAF	IDAENALDPAYAAALGVNIDELL	LSQPDYGEQGLEIAGK	LIDSGAVDLVV	155
consensus	!***!!!!*!!!!*!***!*!*!*!!!!*!*!*!!*!*****!*****!*****!*****!*****				

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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIK	VVKNKV	VAPPF	KVALV	DIMF	GEGIS	STGEL	INIA	VEEG	IT	KKSG	AWFAY	YNDE	314			
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE			313			
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE			313			
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE			313			
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE			313			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKV	VAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE			313			
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKV	VAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE			313			
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRG	TQIKGTG	.DQKDS	IGKETK	IKVVKNKV	VAPPF	KVAEV	EIMY	GEGIS	RTEGEL	VKIAS	DLDI	IKKAG	AWF	SYNGE			313			
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKNKV	VAPPF	KEAFV	EIIY	GEGIS	RTEGEL	VKIAS	DLGI	IKKAG	AWYSY	NGE			313			
NTDB id 115 BSU 16940 NP 389576.2	RLEVRRA	AEQLKQGN	.....	DVMGN	KT	IKVVKNKV	VAPPF	RTA	AEVD	EIMY	GEGIS	KEGE	IIDL	GT	ELDI	VQKSG	SWSY	EEEE	294		
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRA	ETIKNGT	.....	DMIGN	RARI	IKVVKNKV	VAPPF	KVAEV	DIMY	QG	ISRT	TEGEL	VDMA	VEKDI	INKSG	SWSY	YGSE		296		
NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRK	IGQ....	PTKVG	ND	AVANT	VKI	IKTVKNKV	AA	PFKE	VELA	LVY	GKGF	DQLS	DLVGL	AADMD	IT	KKAGS	FYSY	GDE	309	
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRK	VAT....	L.KQNE	EEPI	GNRV	KV	VVKNKV	VAPPF	RQAEF	DVMF	GEG	LS	REGEL	IDY	GVKLD	IV	DKSG	AWF	SYKDK	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRI	AS....	L.KQNE	EQH	IGNRA	KA	VVKNKV	VAPPF	REAEF	DIMF	GEGIS	KEGE	IIDY	GVKLD	IV	DKSG	AWLSY	QDK		298	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRI	AA....	L.KQNE	EQH	IGNRA	KA	VVKNKV	VAPPF	REAEF	DIMF	GEGIS	KEGE	IIDY	GVKLD	IV	DKSG	AWLSY	QDK		298	
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRS	LSDTG	KIKDKS	GEV	IGNRT	KV	VVKNKV	VAPPF	KS	AEFD	IMY	GEG	VSKV	GEILD	VATD	LDII	IQKSG	SWF	SYQDT	309	
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRR	TGS....	I.KKG	EEVL	GN	ETRV	KV	IKNKV	VAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGVKN	DI	INKSG	AWYSY	NGA	296	
NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRR	TGS....	I.KKG	EEVL	GN	ETRV	KV	IKNKV	VAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGVKN	DI	INKSG	AWYSY	NGA	296	
NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRR	TGS....	I.KKG	EEVL	GN	ETRV	KV	IKNKV	VAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGVKN	DI	INKSG	AWYSY	NGA	296	
NTDB id 104960 A4W93 RS01155 WP 085748863.1	RLDIRR	IGS....	I.KKG	EEV	IGN	ETRV	KV	VKNKV	SPPF	KTAEF	DILY	G	QGIS	REGE	VIDM	GVEAK	VLEK	SGSWY	AYNGE	305	
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRR	IGS....	I.KKG	DEV	VGN	ETRV	KV	VKNKV	VAPPF	RE	AI	FDILY	GAGV	SREGE	IIDL	GVEAK	VVEK	SGAWYSY	NGE	304	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRR	CGV....	V.KDG	DEI	IG	SETK	VVKNKV	VAPPF	REVQ	FDIMY	GEGIS	RMNELL	ILAE	ANGF	IKKSG	AWF	SYDGT			312	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRR	TGA....	I.KEG	EEV	VGN	ETRI	KVKNK	IA	APFKE	ANTQ	IMY	QGFN	REGEL	IDL	GVKHK	MVEK	SGAWYSY	NGD		295	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRR	TGA....	I.KEG	EEV	VGN	ETRI	KVKNK	IA	APFKE	ANTQ	IMY	QGFN	REGEL	IDL	GVKHK	MVEK	SGAWYSY	NGD		295	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRR	IGQ....	V.KEG	DEI	IG	SETK	VVKNK	MAPPF	RE	AI	FQILY	GKGV	NQLGEL	VDLAV	QQNIV	QKAG	AWYSY	QGN		295	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRR	IGQ....	V.KEG	DEI	IG	SETK	VVKNK	MAPPF	RE	AI	FQILY	GKGV	NQLGEL	VDLAV	QQNIV	QKAG	AWYSY	QGN		295	
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRR	TGA....	V.KEG	DEV	VGS	ETRV	VVKNKV	VAPPF	RQAEF	QILY	GKGIY	RNGE	IIDL	GV	QQGL	LVEK	SGAWY	AYKGS		295	
consensus	!	***	!	*		*		*	*	***	!*	***	!*	***	***	***	***	***	!	!***	!

NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 104960 A4W93 RS01155 WP 085748863.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

Sequence	Score
KIGGGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKT... AKAKKEEKAVETEEIELELED...	387
KIGGGSSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE... PKKEEA.. VNEEVPLDLGDELEI	384
KIGGGSSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE... PKKEEA.. VNEEVPLDLGDELEI	384
KIGGGSSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE... PKKEEA.. VNEEVPLDLGDELEI	384
KIGGGSSENAKKYLAHNPEVFAEIDHQVRVQFGLIDGEEAAE... SKKDE... VAQVDS.. VNEEVPLDLGDELEI	380
KIGGGSSENAKKYLAHNPEIFDEIDHQVRVQFGLIDGEEIAE... SKKDE... AAQVDS.. VNEEVPLDLGDELEI	380
KIGGGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE... E... TDDLALDLNGIEI	376
KIGGGSSENAKKFLADNPFIIDIDHKVRVQYGLIEEDNTEEKQSSKEK... ETDEK.. ADKNLVLELDDTIEL	381
RLGQGRSENAKQFLKENKDIMLMIQEIQIREHYGLDNGGVVQQAEETQEEL.E... FE.E...	348
RIGGGRSENAKKNYLADHEDVEDEVRLKVRVQYGLSDVPEEDLPTTEDE.QI.N... ILPDDST... EE	355
RIGGQKEKTIAYIAERPEMEQETIDRVMAAIRAGNAGEAPALA.PAP... AAPEAAEA	363
KLGGGRENKSAFLKENPEIAEITTKAIQNSMGIEGMISGSEDD.. EGEE	343
KLGGGRENKALLKEDKALADEITLKKIKESIGSNEEIMPLPDE.. PLEEME	347
KLGGGRENKALLKEDKALADEITLKKIKESIGSNEEIMPLPDE.. PLEEME	347
KLGGGRDTPVKELIKDNPELAEELEAKIREKLQAK	343
KIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGE... RPEE	348
KIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGE... RPEE	348
KIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGE... RPEE	348
KIGGQKDNAREFLKENPDLAVEIENKVRREALGIPLLPVAEPVVAEAGKPAKKAKAAAPKDEE	367
RIGGGRDNCREFLRENAELAREIENKVRREHLGVTPMGAVTL.. AEEVEED	352
KIGGQKNNNAVKWLKENPEIAKLEQEIRNTLASNPNSVLKATASDSNDES... EEFSEEL	372
KIGGQKANACKYLKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADVEF.. GAVPEEF	354
KIGGQKANACKYLKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADVEF.. GAVPEEF	354
KIGGQKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEPDL.. L.. ES	349
KIGGQKNNVIRYFEENNQIAEIEIERNIREQLLTTGTNGAVQ.. I.. EDEEEPDL.. L.. LES	349
KIGGQKANAAYLEENPEIQQEIEQQIRAKLLVTSANTKATPVAEDLADADI	347

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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 115 BSU 16940 NP 389576.2	....	348
NTDB id 625 LCA RS02525 WP 011374196.1	....	355
NTDB id 1313 DR RS12030 WP 010888966.1	....	363
NTDB id 1245 Cj1673c YP 002345041.1	....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	....	343
NTDB id 1130 NGFG RS03960 WP 003688695.1	....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	....	348
NTDB id 104960 A4W93 RS01155 WP 085748863.1	....	367
NTDB id 1427 RS RS02760 WP 011000510.1	....	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	....	347

consensus

 non conserved
 similar
 ≥ 50% conserved