

NTDB id 1029	TT RS02230 WP 011228203.1	MPVYQYKARDRQGR.L	VEATIEAEDLRTAARLLRDRGLFVAETKEPGKGLQAEVRIPALERGPGLK	65
NTDB id 1169	A1552VC RS11075 WP 000648511.1	MKAT.....QTLPLKNYRWKGINSGKK	VSGQMLAISEIEVRDKLKDQHIQIKKLLKKGVSLLAR.....LTHRVKSK	68
NTDB id 1402	DSB67 RS12670 WP 010643257.1	.MKT.....IAPQLKNYRWKGINSSGKK	TSGNVLAMTEIEVRERLDAQHIKIKKLLKKGSSISFITK.....ISHRVKGK	67
NTDB id 1112	NGFG RS09215 WP 003689811.1	.MAKNGGFSLFAKKEKRFIFEGRHSASDKL	VNGEVSATFEEEARKKLAKRGIRPLQITRV.....KT....SSKRKITQE	70
NTDB id 1113	AAA85695.1 219..1451()	.MAKNGGFSLFAKKEKRFIFEGRHSASDKL	VNGEVSATFEEEARKKLAKRGIRPLQITRV.....KT....SSKRKITQE	70
NTDB id 1252	GCO85 RS07730 WP 011213805.1	.MDKN.....SPPLLTFFHYQGINKAGQK	MEGDIQARSLATAKADLRKQGIIVTNKVVKKRKPFLFDR.....KNKKITQA	67
NTDB id 1198	PSJM300 O3950 AFN76868.1	.MAQK.....AIKNSVFTWEGLDRQGAK	IKGELSGVSPALVKAQLRKQGINPQKVRKKSSISLFS.....AGKKIKPM	66
NTDB id 1016	ACIAD RS01680 WP 004920476.1	MAAKK.....TQVMPVFAYEGVDRKGIK	LKGELPARNMALAKVTLRKQGITRTIREKRKNIFEG....LLKKVKPL	69
NTDB id 1053309	ABUS37 RS17400 WP 000279216.1	MAVKK.....AQMMPTFAYEGVDRKGVK	IKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEG...LFKKKVTTL	69
NTDB id 1059	ABD1 RS01610 WP 000279215.1	MAVKK.....AQMMPTFAYEGVDRKGVK	IKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEG...LFKKKVTTL	69
consensus		*****	!*****	*****

NTDB id 1029	TT RS02230 WP 011228203.1	DIAIFSRQLATMLGAGLTLQALAILERQTENRKFREILKQVRDVEGGMAFSEALS KH.KI FSRLYVNLVRAGETSGGL	144
NTDB id 1169	A1552VC RS11075 WP 000648511.1	DITILTRQLATMLTTGVPIVQALKLVGDNHRKAEMKSILAQITKSVEAGTPLSKAMRTASAHFDLTLYVDLVETGEMSGNL	148
NTDB id 1402	DSB67 RS12670 WP 010643257.1	DITIFTRQIATMTMTGVPIVQALKLVSENHKKAEMKSILMSVTRAVEAGTPMSKAMRTASTHFDPlytDLIATIGEQSGNL	147
NTDB id 1112	NGFG RS09215 WP 003689811.1	DITVFTRQLSTMIKAGLPLMQAFEIVARGHGNSPMTLEMLMEIRGQVEQGSSLSRAFSNHPKFYDRFYCNLVAAETGGVL	150
NTDB id 1113	AAA85695.1 219..1451()	DITVFTFRQLSTMINAGLPLMQAFEIVARGHGNSPMTLEMLMEIRGQVEQGSSLSRAFSNHPKFYDRFYCNLVAAETGGVL	150
NTDB id 1252	GCO85 RS07730 WP 011213805.1	DITVFSRQLATMIESGIPLVQAFFDIVAKGQSNNKRLKDILTETIKHDIIETGLTLAESLIKHPLYFNELFCNLVDAGEKSGSL	147
NTDB id 1198	PSJM300 O3950 AFN76868.1	DIALFTRQMATTMMKAGVPLQSFSDIIGEGFDNPNNMRKLVDLLKQEVAAGNSFASSLRKKPPQYFDDLYCNLVDSGEQSGSL	146
NTDB id 1016	ACIAD RS01680 WP 004920476.1	DIAIFTRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVLLGKNVEVEGGNTFAGALRKYPQYFDNFLFCSLIESGEQSGSL	149
NTDB id 1053309	ABUS37 RS17400 WP 000279216.1	DITIFTRQLATMMKAGVPLVQGFIVEAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNFLFCSLVESGEQSGAL	149
NTDB id 1059	ABD1 RS01610 WP 000279215.1	DITIFTRQLATMMKAGVPLVQGFIVEAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNFLFCSLVESGEQSGAL	149
consensus		!*****!****!*!!!!!!*****!*****!*****!*****!*****!*****!*****!*****!*****!	

NTDB id	1029	TT RS02230 WP 011228203.1	DILIDRLASFLKELELRGKIRSAMTYPVIVFVFAGVGVAIFLLTGIVPQFAQILTDLGSELPLLTRFLIAVSDLLRAATL	224
NTDB id	1169	A1552VC RS11075 WP 000648511.1	PEVFERLATYREKSEQLRAKVIKALIYPSMVVLVALGVSYLMMLTMVIPFEFSMFKGFGAELPWFTQQVLKLSHWVQAYSL	228
NTDB id	1402	DSB67 RS12670 WP 010643257.1	SQVFERLATYREKSEQLRAKVIKALIYPPAMVVLVALGVSYLMMLTRVIPFEFKMFTGFADLPFTQMVLNLSAWTQNNGP	227
NTDB id	1112	NFGF RS09215 WP 003689811.1	EISLDKLAITYEKKTAIRKKVKKTALTYPSVSVIAVAIGLVFVMMLFVFLPAFKEVYANMGAEPLPLTQTVMDSDFVSYGW	230
NTDB id	1113	AAA85695.1 219..1451()	ESLLDKLAITYEKKTAIRKKVKKTALTYPVSVIAVAIGLVFMIMFVLPAFKEVYANMGAEPLALTQVTMDMSDFVSYGW	230
NTDB id	1252	GCO85 RS07730 WP 011213805.1	DIMLDKVATYKEKIEIIRKKIKKKALTYPPIAVMMVALLVTAGLLIYVVPQFESLFKGGFADLPAMTRAVITMSEFMQA YWY	227
NTDB id	1198	PSJM300 O3950 AFN76868.1	ETLLDRVATYKEKTEALKAKIKKKAMNYP IAVVVLVAVIVTATILLIKVVPQFQDV FANFGAELPAFTLMVIGLSEALQAWWY	226
NTDB id	1016	ACTAD RS01680 WP 004920476.1	EIMLDRVAVYKEKSEVLKQKIKKKAMKPATVIVVAIVVTIILMVKVVPVFKDLFTSFGADLPFTQLVVNMNSNMWDYWF	229
NTDB id	1053309	ABUS37 RS17400 WP 000279216.1	ETMLDRVAIYKEKSELLKQKIKKKAMKPATVIVVAIVVTIILMVKVVPVFKDLFASFSGADLPFTQM VVNMSKWMQEYWF	229
NTDB id	1059	ABD1 RS01610 WP 000279215.1	ETMLDRVAIYKEKSELLKQKIKKKAMKPATVIVVAIVVTIILMVKVVPVFKDLFASFSGADLPFTQM VVNMSKWMQEYWF	229
consensus			* * * * *	

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NTDB id 1029	TT RS02230 WP 011228203.1	PLLLLAVALFFAYRW.YYGTIPQGRRV	IDRLKLRPLVFGNINRKTAVARFSRTLALLSSSGVNIVEALDITKGTAGNSVVE	303
NTDB id 1169	A1552VC RS11075 WP 000648511.1	WAFIAIAAAIFGLKALRKN	SFQIRLKT SRLGLKFPITIGNVLAKASIAKFSRTLATSFAAGIPILASLKT	308
NTDB id 1402	DSB67 RS12670 WP 010643257.1	FIGLSFVSLISGKIMSQRSDS	FRLLAARSSLRVPILGPVLSKAAIAKFSRTLATSFSAGIPILTALKTT	307
NTDB id 1112	NGFG RS09215 WP 003689811.1	MVLIALGFATIGYFLKLR	KARSIKIQRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDVLD	310
NTDB id 1113	AAA85695.1 219..1451()	MVLIALGFATIGYFLKLR	KARSIKIQRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDVLD	310
NTDB id 1252	GC085 RS07730 WP 011213805.1	IIIFGALGGVVVSFFYAKN	HSLEFAQTTIDRVMLKLPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSV	307
NTDB id 1198	PSJM300 03950 AFN76868.1	VVLAGFVGAAAYAFKQAH	TRSEKFRNWFDRMLMKVPVVGDIYKSSVARFARTLSTTFAAGVPLVDAL	306
NTDB id 1016	ACIAD RS01680 WP 004920476.1	ILILVIGAATAGFLEARK	RSKRFRDQLDLRLVLRPIVGDLYKAI	309
NTDB id 1053309	ABUS37 RS17400 WP 000279216.1	IMITATIGAVIAAFLEAK	RSKKFRDGLDKLALKLPIFGDLVYKAI	309
NTDB id 1059	ABD1 RS01610 WP 000279215.1	IMITATIGAVIAAFLEAK	RSKKFRDGLDKLALKLPIFGDLVYKAI	309
consensus		*****	*****!*****!*****!*	

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NTDB id 1029	TT RS02230 WP 011228203.1	EIVEAAKLKIQQGDPLNLT	LTAQHPFVFPMPVSSMVAIGEETGALD	TMLS	SKVADFYER	EVDEAVAS	LTAAI	EPLMI	IFLGV	383																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB id 1169	A1552VC RS11075 WP 000648511.1	TAINEVYRD	TAAGMPMYIAMR.NTEAFPE	MVLQVM	IGEESGQLDD	MLN	KVATI	IYEF	EV	DN	TV	DN	L	GK	ILE	PL	I	V	FL	G	T	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 1402	DSB67 RS12670 WP 010643257.1	LAIEEVYRD	TAAGMPMYIAMR.NTEAFPE	MVLQVM	IGEESGQLDD	MLN	KIAAI	IYEF	EV	DN	TV	DN	L	GK	ILE	PL	I	V	FL	G	T	386																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 1112	NGFG RS09215 WP 003689811.1	EATREIRTR	VIQGLSMTSGMR.ATEL	FPNMMLQMS	IGEESGSLDD	MLN	KAAEF	YED	EV	DN	AV	GRL	SAMMEP	II	IV	IL	GL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

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NTDB id 1029	TT RS02230 WP 011228203.1	IVGMIVAGMFLPLFKI	IGTISVQ	406
NTDB id 1169	A1552VC RS11075 WP 000648511.1	VVGGLV	VAMYLPIFNLMSVLG..	408
NTDB id 1402	DSB67 RS12670 WP 010643257.1	VVGGLV	TAMYLPIFNLMSVLG..	407
NTDB id 1112	NGFG RS09215 WP 003689811.1	VIGTLL	VAMYLPLFNLGNVVA..	410
NTDB id 1113	AAA85695.1 219..1451()	VIGTLL	VAMYLPLFNLGNVVA*..	410
NTDB id 1252	GC085 RS07730 WP 011213805.1	LVGGLV	VAMYLPIFKLGS	AV... 406
NTDB id 1198	PSJM300 03950 AFN76868.1	LVGGLV	VAMYLPIFQMG	SVV... 405
NTDB id 1016	ACIAD RS01680 WP 004920476.1	LVGGLV	VAMYLPIFQMG	SVV... 408
NTDB id 1053309	ABUS37 RS17400 WP 000279216.1	LVGGLV	VAMYLPIFQMG	SVV... 408
NTDB id 1059	ABD1 RS01610 WP 000279215.1	LVGGLV	VAMYLPIFQMG	SVV... 408
consensus		*****	*****	

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved