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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLITHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMMDARQAEEFKQ	TREANFAVVRD	75								
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRETVHGV	MNEQQRREFTENHECNFAISAR	76								
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LDGDMIAQLIDSITTQKQRQEF	ETHECNFAILNR	76								
NTDB id 421192 GZ999 RS03955 WP 016150970.1	MNMEEIVALS	SVKHNVSDLHLCNAWPARWRRRGKVES...	APFTTPDV	ENLLMCWLSEQQQVQLQEQQIDFAVTLT	73								
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDIILRLAADKGASDITILA	AAGLPPQFKLSGDYDAQGFEL	SASDTRKLMYSMMNERQQRI	FEEREKRELD	78								
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLEVD	76							
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLEVD	76							
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHL	SAGVPPMVRIDG	EVRLKGVPAFTHSDVHRL	LIFEIMNDAQRSEYEEKLEVD	76								
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHL	SAGVPPMVRIDG	EVRLKGVPAFTHSDVHRL	LIFEIMNDAQRSEYEEKLEVD	76								
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFAFSVKNKSSDLH	ISAGMPPMIRVDGDLR	KNINLP	PPLHKKDVIKI	IIDIMNDRQRKEYEEFFETD	76							
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAFSVKNKSSDLH	ISAGMPPMIRVDGDLR	KNINLP	PPLHKKDVIKI	IIDIMNDRQRKEYEEFFETD	76							
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHL	SSGLPPMIRVDGDVRRINLP	AMDHKQVHALIYD	IMNDKQRKDFEEFLET	D	76							
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHL	SAGLPPMIRVDGDVRRINLP	PPLHKKQVHALIYD	IMNDKQRKDFEEFLET	D	76							
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHL	SAGIPPMIRVDGEVRRINLP	AMDHS	EVHNL	IIDIMNDKQRDDYEEKLET	D	76						
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQRDDYEEKLET	D	76						
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQRDDYEEKLET	D	76						
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQRDDYEEKLET	D	76						
consensus	***	*****	*!!*****	*****	*****	*	*	*	*	*****	*****	*	*!!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..	SCRFRVSAFFQRELP	CAVIRRIETRI	PTFEELKLPEVLQNL	LAI	AKRGLVLVVGAT	TGSGKSTT	MAAMTGYRN	QHR	TGHI	153	
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	TGRFRVSAFYQRNL	AGMVLRR	IETNIPT	IEDLKL	PDVLKKL	ALTKRGLVL	VFVGAT	TGTGKST	SLAAMIGYRN	KNSSGHI	155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	E	KNERFRVSAFYQR	QDMPGMVIRRI	ETKIP	SPDDLHL	PPILKEL	AMSKRG	IIIFSGAT	TGTGKST	SLASMI	QHRNQHSGKHI	156
NTDB id 421192 GZ999 RS03955 WP 016150970.1	D.	SRLRASAFVHQ	GTSLALRL	LPLDCPH	DD	LQPPA	VIPELLHSENG	LILVTGAT	TGSGKSTTLAAM	VEYLNQHI	EGHI	152
NTDB id 1307 DR RS10055 WP 010888596.1	D.	KARFRVNAFMQRGNV	GGVMRLIPTT	VRTIAEMGLP	QTVIDIAN	APRGLVLVTGPT	TGSGKSTTLAAM	S	MIDHINTT	KKLHI		159
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	VARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSI	IFQKIAESPRGM	VLVTGPT	TGSGKSTTLAAM	IN	YINETQPAHI		155
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	VARFRVNAFNITGRGP	AAVFRTIP	STVLSLEEL	KAPSI	IFQKIAESPRGM	VLVTGPT	TGSGKSTTLAAM	IN	YINETQPAHI		155
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	VGRFRVNAFHQARGCS	AVFRTIPT	TVIPTLEQL	DAPE	IFSKIANYE	KGLVLVTGPT	TGSGKSTTLAAM	V	NYVNAHNNKHI		155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	VGRFRVNAFHQARGCS	AVFRTIPT	TVIPTLEQL	DAPE	IFSKIANYE	KGLVLVTGPT	TGSGKSTTLAAM	V	NYVNAHNNKHI		155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	LARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPI	FKEMASFSR	GLVLVTGPT	TGSGKSTTLAAM	VIDYIN	SSRYEHI		155
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	LARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPI	FKEMASFSR	GLVLVTGPT	TGSGKSTTLAAM	VIDYIN	SSRYEHI		155
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLTMED	LGMGEV	FRKITD	VPRGLVLVTGPT	TGSGKSTTLAAM	LDYLNNT	KYHHI		155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLTMED	LGMGEV	FRKITD	VPRGLVLVTGPT	TGSGKSTTLAAM	LDYLNNT	KYHHI		155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.	LARFRVNVFNQNRGAG	AVFRTIP	SKVLTLEEL	LGLGKIF	RDCIDYPR	GLVLVTGPT	TGSGKSTTLAAM	LDYINN	HR	YDHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLTMED	LGLGQIF	KDCIDYPR	GITVLVTGPT	TGSGKSTTLAAM	LDYINEN	R	YDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLTMED	LGLGQIF	KDCIDYPR	GITVLVTGPT	TGSGKSTTLAAM	LDYINEN	R	YDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLTMED	LGLGQIF	KDCIDYPR	GITVLVTGPT	TGSGKSTTLAAM	LDYINEN	R	YDHI	155
consensus	*	***!!*****	**	*****	*****	*****	**	*****	*****	*****	!!	

NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 421192 GZ999 RS03955 WP 016150970.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
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NTDB id 1283 ACE17W RS02630 WP 010947729.1
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NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
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NTDB id 1040 HON27 RS13360 WP 000355489.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
consensus



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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGs.ETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRRERMSEMER.....KMTFDGQRRNLK....	383
NTDB id 421192 GZ999 RS03955 WP 016150970.1	TFAQSLQQRQAQGRLL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGIIAPEVARRRAQNSESMsF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGIIAPEAARRRAQNSESMsF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDsCLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMcLKGLVAKGLISRREAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKSP.ESF.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQP.ESFL.....	345
consensus	!*** * ** ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	APATPAAPAAAGRSEPCRAcCGFGRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 421192 GZ999 RS03955 WP 016150970.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	APATPAAPAAAGRSEPCRAcCGFGRR	418
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
consensus		

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