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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMD	DARQAEFKQ	TREANFA	VVRD	75				
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGVMMNEQ	QRREFTEN	HECNFAISAR	76				
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LDGDMIAQLIDS	ITTQKQRQ	EFETHECN	FAILNR	76				
NTDB id 103301 QUE80 RS04205 WP 125123889.1	MDMEKIVELSVKHNVSDDLHLCDRR	PPRWRRQGRLE...	AAPFDAVDTHAL	LAE	SLNTQQQQQWQACGQIDFALSTP	73					
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDIILRLAADKGASDTILAA	AGLPPQFKLSG	YDAQGFEL	SASDTRKLMYS	MMNERQQRIFE	EKRELD	78				
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLE	VD	76				
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLE	VD	76				
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHL	SAGVPPMVRIDG	EVRLKGVPAFT	HS	DVHRLIFEIMNDAQRSEYEEKLE	VD	76				
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHL	SAGVPPMVRIDG	EVRLKGVPAFT	HS	DVHRLIFEIMNDAQRSEYEEKLE	VD	76				
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGLRKINLPPLEHKDVIK	IYD	IMNDRQRKEYEEFFET	D	76					
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGLRKINLPPLEHKDVIK	IYD	IMNDRQRKEYEEFFET	D	76					
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSS	GLPPMIRVDGDVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEEFLET	D	76					
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHL	SAGLPPMIRVDGDVRRINLP	PPLEHKQVHALIYD	IMNDKQRKDFEEFLET	D	76					
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHL	SAGIPPMIRVDGEVRRINLP	AMDHSEVHNLIYD	IMNDKQR	RDYEEKLET	D	76				
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLET	D	76				
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLET	D	76				
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLET	D	76				
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..	SCRFRVSAFFQRELP	GAVIRRIETRIPTFEELKLPEVLQNLAI	AKRGLVLVVGATGSGKSTTMAAMTGYRNQHR	TGHI	153						
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	TGRFRVSAFYQRNL	AGMVLRR	IETNIPTIEDLKL	PDVLKKLALTKRGLVLVFGATGTGKSTSLAAMIGYRNKNSSGHI	155						
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFYQR	QDMPGMVIRRIETKIP	SPDDLHL	PPILKELAMSKRGII	IFSGATGTGKSTSLASMIQHRNQHSGKHI	156						
NTDB id 103301 QUE80 RS04205 WP 125123889.1	G.	LQRLRASAF	LHHEGVSLALRL	LPDTCPTLDMLD	VPAV	IPPELLRRDNGLILVTGATGSGKSTTLAAMVDNINHYLDGHI	152					
NTDB id 1307 DR RS10055 WP 010888596.1	D.	KARFRVNAFMQRGNV	GGVMRLIPTTVRTIAEM	GLPQTVIDIANAPRGLVLVTGPTGSGKSTTLAS	MIDHINTTKKLHI	159						
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	VARFRVNAFNIGRGP	AAVFRTIPSTVLSLEEL	KAPSI	IFQKIAESPRGMVLVTGPTGSGKSTTLAAMIN	YINETQPAHI	155					
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	VARFRVNAFNTGRGP	AAVFRTIPSTVLSLEEL	KAPSI	IFQKIAESPRGMVLVTGPTGSGKSTTLAAMIN	YINETQPAHI	155					
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	VGRFRVNAFHQA	RGC	SAVFRTIPTV	IPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHNNKHI	155					
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	VGRFRVNAFHQA	RGC	SAVFRTIPTV	IPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHNNKHI	155					
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	LARFRVNAFNQSRGA	AAVFRTIPSEILSMED	LGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAV	IDYINSSRYEHI	155						
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	LARFRVNAFNQSRGA	AAVFRTIPSEILSMED	LGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAV	IDYINSSRYEHI	155						
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	VARFRVNAFNQNRGAGAV	FRTIPSKVLTMED	LGMGEVFRKITD	VPRGLVLVTGPTGSGKSTTLAAML	DYLNNTKYHHI	155					
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	VARFRVNAFNQNRGAGAV	FRTIPSKVLTMED	LGMGEVFRKITD	VPRGLVLVTGPTGSGKSTTLAAML	DYLNNTKYHHI	155					
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.	LARFRVNVFNQNRGAGAV	FRTIPSKVLTLEEL	LGLGKIFRD	ICDYPRGLVLVTGPTGSGKSTTLAAML	DYINNHR	YDHI	155				
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	VARFRVNAFNQNRGAGAV	FRTIPSKVLTMED	LGLGQIFKD	ICDYPRGIVLVTGPTGSGKSTTLAAML	DYINENR	YDHI	155				
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	VARFRVNAFNQNRGAGAV	FRTIPSKVLTMED	LGLGQIFKD	ICDYPRGIVLVTGPTGSGKSTTLAAML	DYINENR	YDHI	155				
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	VARFRVNAFNQNRGAGAV	FRTIPSKVLTMED	LGLGQIFKD	ICDYPRGIVLVTGPTGSGKSTTLAAML	DYINENR	YDHI	155				
consensus	*	***!***	***	*****	*****	***	***	*****	*****	*****	*****	!!

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	LTIVEDPIEFVHEHKKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRRETMEYAMTFAETGHL	233
NTDB id 1203 PSJM300 01605 AFN76401.1	TSIEDPIEFTHQHQCNCIVTQREVGLDTDSFEVALKNTLRQAPDVILIGEVRTRETMHDHVAFAETGHLCLATLHANNANQ	235
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ITIEDPIEFIEHAGCIITQREVGLDTDSFEIALKNTLRQAPDVILIGEIRSRREVMDYALAFATGHLVFAATLHANNANQ	236
NTDB id 103301 QUE80 RS04205 WP 125123889.1	LTLEDPIEFVFIHTSKRCLIQQREIGPHCASFAAGLRAALREDPDVILLGELRDSETIRLALTAATGHLVLAATLHTRGAPQ	232
NTDB id 1307 DR RS10055 WP 010888596.1	LTIEDPIEFMHPNKAISTINQREVGSDTLSFDDALRAALRQAPDVILVGMERDYEYETIKAATVTAATGHLVMTGLHTNSAPE	239
NTDB id 1086 NMV RS00245 WP 002218487.1	LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGMERDPETIGLALTAATGHLVFGTLHTTGAAG	235
NTDB id 1116 NGFG RS10615 WP 003690200.1	LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGMERDPETIGLALTAATGHLVFGTLHTTGAAG	235
NTDB id 1185 GTF74 RS11940 WP 000350195.1	LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGLERDQETISLALTAATGHLVFGTLHTSSAAK	235
NTDB id 1176 A1552VC RS01160 WP 000350195.1	LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGLERDQETISLALTAATGHLVFGTLHTSSAAK	235
NTDB id 1283 ACE17W RS02630 WP 010947729.1	LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGLERDLETIRLAMTAATGHLVFGTLHTNSATK	235
NTDB id 1259 GC085 RS10305 WP 010947729.1	LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGLERDLETIRLAMTAATGHLVFGTLHTNSATK	235
NTDB id 1202 PSJM300 01600 AFN76400.1	LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1194 PAKAF RS01995 WP 003084552.1	LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1020 ACIAD RS04210 WP 01182164.1	LTVEDPIEFVHEPKKCLINQREVHRDTHGFNEALRSALREDPDIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1060 ABD1 RS04380 WP 000355489.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1040 HON27 RS13360 WP 000355489.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
consensus	***!!!!!! *****!!!!***** * * *!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TIDRIIDVFPAAEEKMVRSMSESQAVISQQLKKGGGRVAAHEIMIGTPAIRNLIREKVAQMYSIQTGAHGMQ	313
NTDB id 1203 PSJM300 01605 AFN76401.1	ALDRIINFFPADRQNVWMDLSLNLKATVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ	315
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TLERIIHFFDADRHHQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDIYIRGEIYKIKELMARSCELGMQ	316
NTDB id 103301 QUE80 RS04205 WP 125123889.1	ATIERLVDSFPAEEKEPVRSQLAGSLQAVLSQRLAAD.RQGGRVALFELLINTPAIANLIREGKNHQLPGVLQTGGQAGMQ	311
NTDB id 1307 DR RS10055 WP 010888596.1	SIDRIVDVFPPEEQQEQRVQLANNLVAVMTQQLLRADGGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV	319
NTDB id 1086 NMV RS00245 WP 002218487.1	TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLKTHDGNRGRVASHEILIANPAVRNLIRENKITQINSVLQTGGASGMQ	315
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLKTHDGNRGRVASHEILIANPAVRNLIRENKITQINSVLQTGGASGMQ	315
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TIDRIIDVFPDSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSSIQTGAHGMQ	314
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIIDVFPDSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSSIQTGAHGMQ	314
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TINRIIDVFPAAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGGAKGMQ	314
NTDB id 1259 GC085 RS10305 WP 010947729.1	TINRIIDVFPAAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGGAKGMQ	314
NTDB id 1202 PSJM300 01600 AFN76400.1	TIDRVVDVFPAAEEKSMVRSMLSESLQAVISQTLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGMQ	314
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TIDRVVDVFPAAEEKAMVRSMLSESLQSVISQTLKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGMQ	314
NTDB id 1020 ACIAD RS04210 WP 01182164.1	TIDRIIDVFPAAEKDMVRTMLSESLQAVISQTLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGMT	314
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT	314
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT	314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT	314
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 103301 QUE80 RS04205 WP 125123889.1	TFDQSRQQRQAQGRLL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVVRQGLIAPEVARRRAQNSESMsF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVVRQGLIAPEAAARRRAQNSESMsF.....	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	TLDMcLKGLVAKGLISRENAREKAKIP.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 103301 QUE80 RS04205 WP 125123889.1	.....	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