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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTA	LLHAMDDARQA	EFKQTR	EANFAVVRD	75					
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGV	MNEQQRREF	TENHECNFAISAR	76				
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSL	KINGEITPVSKTK	LDGDMIAQLIDS	ITTQKQRQEF	ETHECNFAILNR	76				
NTDB id 359311 AV973 RS03770 WP 001055642.1	MNMEEIVTL	SVKHNVSDLHLCNAWPARWRKQGRMEN...	APFTAPD	VDRLLLDWLND	AQQYQWRTHGQLDFAVSL	73					
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDI	ILRLAADKGASDITILAAGLPPQFKLSG	DYDAQGFEL	SASDTRKLMYS	MMNERQQRIF	FEKRELD	DFSALG	80			
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP	76			
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP	76			
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVDFS	FELP	76				
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVDFS	FELP	76				
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFAVKNKSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDVIKI	IYD	IMNDRQRKEYEEFF	FETDFS	FEIA	76			
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAVKNKSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDVIKI	IYD	IMNDRQRKEYEEFF	FETDFS	FEIA	76			
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQVHALIYD	IMNDKQRKDFEEF	LETDFS	SFEVP	76				
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQVHALIYD	IMNDKQRKDFEEF	LETDFS	SFEVP	76				
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDGEVRRINLP	PAMDHSEVHNLIYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
consensus	***	*****	*!*****	*****	*****	*	*	*****	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..S	GFRFRVSAFFQ	RELPGAVIRRIET	RIPTFEELK	PEVLQNL	IAIAKRG	LVLVVGATGSGKSTT	MAAMTGYRNQHR	RTGHI	153				
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	IGRFRVSAFYQ	RNLAGMVLRR	RIETNIPT	IEDLKLPD	VLKKLALT	KRGLVLFVGATGTGKST	SLAAMIGYRNKNSSG	HI	155				
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFQQR	DMPGMVIRRIET	KIPSPDDL	HLPPI	LKELAMSKRG	IIIFSGATGTGKST	SLASMIQHRNQHSGK	HI	156				
NTDB id 359311 AV973 RS03770 WP 001055642.1	G.	TRRLRASAF	THQQGTSL	LRL	LPERCPDL	AEI	IQTPPIVP	PALLASENGLILVTGATGCGKSTT	LAAMVGH	LNQHADKHI	152			
NTDB id 1307 DR RS10055 WP 010888596.1	D.	KARFRVNAFM	QRG	NVGGVMRLIPT	TVRTIAEM	GLPQTVID	IANAPRGLVLVTGPTGSGKSTT	LAASMI	DHINTTK	KLHI	159			
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	VARFRVNAFN	IGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQK	IAESPRGMVLVTGPTGSGKSTT	LAAMIN	YINETQPAHI	155				
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	VARFRVNAFN	TGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQK	IAESPRGMVLVTGPTGSGKSTT	LAAMIN	YINETQPAHI	155				
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	VGRFRVNAFHQ	ARGCS	AVFRTIPT	TVIPTLE	QLDAPEIF	SKIANYEK	GLVLVTGPTGSGKSTT	LAAMVNYVN	NAHNKHI	155			
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	VGRFRVNAFHQ	ARGCS	AVFRTIPT	TVIPTLE	QLDAPEIF	SKIANYEK	GLVLVTGPTGSGKSTT	LAAMVNYVN	NAHNKHI	155			
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	LARFRVNAFNQ	SRGA	AAVFRTIP	SEILSMED	LGLPPIFK	EMASFSRGLVLVTGPTGSGKSTT	LAAVIDY	INSSRYEHI	155				
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	LARFRVNAFNQ	SRGA	AAVFRTIP	SEILSMED	LGLPPIFK	EMASFSRGLVLVTGPTGSGKSTT	LAAVIDY	INSSRYEHI	155				
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	VARFRVNAFNQ	NRGAGAV	FRTIPSK	VLTMEDLGMGEV	FRKITD	VPRGLVLVTGPTGSGKSTT	LAAML	DYLNNTKYHHI	155				
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	VARFRVNAFNQ	NRGAGAV	FRTIPSK	VLTMEELGMGEV	FRKITD	VPRGLVLVTGPTGSGKSTT	LAAML	DYLNNTKYHHI	155				
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.	LARFRVNVFNQ	NRGAGAV	FRTIPSK	VLTLEELGLGKIF	RDICDYPR	GLVLVTGPTGSGKSTT	LAAML	DYINNHRDYHI	155				
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	VARFRVNAFNQ	NRGAGAV	FRTIPSK	VLTMEDLGLGQIF	KDICDYPRG	IVLVTGPTGSGKSTT	LAAML	DYINENRYDHI	155				
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	VARFRVNAFNQ	NRGAGAV	FRTIPSK	VLTMEDLGLGQIF	KDICDYPRG	IVLVTGPTGSGKSTT	LAAML	DYINENRYDHI	155				
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	VARFRVNAFNQ	NRGAGAV	FRTIPSK	VLTMEDLGLGQIF	KDICDYPRG	IVLVTGPTGSGKSTT	LAAML	DYINENRYDHI	155				
consensus	*	***!*****	***	*****	*****	***	***	*****	*****	*****	***	*****	***	!!

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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 359311 AV973 RS03770 WP 001055642.1
NTDB id 1307 DR RS10055 WP 01088596.1
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
consensus

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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 359311 AV973 RS03770 WP 001055642.1
NTDB id 1307 DR RS10055 WP 01088596.1
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 ACE17S RS02630 WP 010947729.1
NTDB id 1259 GCO8W 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
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 359311 AV973 RS03770 WP 001055642.1	TFAQSAQWRQAQGRL.....	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	TLDMcLKGLVAKGLISRENAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 01182164.1	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	APATPAAPAAAGRSEPCRAAGGFCRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 359311 AV973 RS03770 WP 001055642.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	APATPAAPAAAGRSEPCRAAGGFCRR	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 01182164.1	.....	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