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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	PPSMKVNGKILPVNKTPMSPEMTRET	VHGV	MNEQQRREFTE	NHECNFAISAR	76							
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTKLDGDMIAQL	IDSITTQKQRQEF	ETHECN	FAILNR	76							
NTDB id 329948 EIL74 RS00710 WP 023202686.1	MNMEEIVTL	SVKHNVSDDLHLCNAWPARWRKQGRME...TAPFTAPDV	DRLLDLWL	NDAQQYQWRTHGQLDFAVSL	S	73							
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILAAGL	PPQFKLSGDYDAQGFEP	ISASDTRKLMYSMMNERQQRIF	EEREKRELD	DFS	FALG	80						
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGIS	SPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP	76					
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSGIS	SPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP	76					
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGV	PPMVRIDGEVRKLGVP	AFTHSDVHRLIFE	IMNDAQ	RSEYE	EKE	LEVDFS	FELP	76				
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGV	PPMVRIDGEVRKLGVP	AFTHSDVHRLIFE	IMNDAQ	RSEYE	EKE	LEVDFS	FELP	76				
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAGM	PPMIRVDGLRKNINLP	LEHKDV	IKIYD	IMNDRQR	KEYEE	FET	D	DFS	FEIA	76		
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAGM	PPMIRVDGLRKNINLP	LEHKDV	IKIYD	IMNDRQR	KEYEE	FET	D	DFS	FEIA	76		
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAGL	PPMIRVDGDVRRINLP	LEHKQVHALIYD	IMNDKQR	KDFEE	F	LET	D	DFS	FELP	76		
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSAGL	PPMIRVDGDVRRINLP	PAMDHKQVHALIYD	IMNDKQR	KDFEE	F	LET	D	DFS	FELP	76		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAGI	PPMIRVDGEVRRINLP	PAMDHSEVHNLIYD	IMNDKQRR	DYEEK	LET	D	DFS	FELP	76			
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGM	PPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQRR	DYEEK	LET	D	DFS	FELP	76			
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGM	PPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQRR	DYEEK	LET	D	DFS	FELP	76			
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAGM	PPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQRR	DYEEK	LET	D	DFS	FELP	76			
consensus	***	*****	*!*****	*****	*****	*	*	*	*	*****	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYNQHRTGHI	153
NTDB id 1203 PSJM300 01605 AFN76401.1	G.TGRFRVSAFYQRNLAGMVLRRRIETNIPTIEDLKLDPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI	155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFQQRDMPCGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSGKHI	156
NTDB id 329948 EIL74 RS00710 WP 023202686.1	G.TRRLRASAFTHQQGTSLALRLILERCPLDAEIIQTTPIVPALLASENGLILVTGATGCGKSTTLAAMVGHINQHADKHI	152
NTDB id 1307 DR RS10055 WP 010888596.1	D.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI	159
NTDB id 1086 NMV RS00245 WP 002218487.1	N.VARFRVNAFNIGRGA AAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.VARFRVNAFNIGRGA AAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.VGRFRVNAFHQAARGCSAVFRTIPTV IPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYVNAHNNKHI	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.VGRFRVNAFHQAARGCSAVFRTIPTV IPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYVNAHNNKHI	155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.LARFRVNAFNQSRGA AAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.LARFRVNAFNQSRGA AAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFRKVDVPRGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1202 PSJM300 01600 AFN76400.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.LARFRVNVFNQNRGAGAVFRTIPSKVLTLEELGLGKIFRDCIDYPRGLVLVTGPTGSGKSTTLAAMDYINNHRDYHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDCIDYPRGIVLVTGPTGSGKSTTLAAMDYINENRYDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDCIDYPRGIVLVTGPTGSGKSTTLAAMDYINENRYDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDCIDYPRGIVLVTGPTGSGKSTTLAAMDYINENRYDHI	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 329948 EIL74 RS00710 WP 023202686.1
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 GCO85 RS10305 WP 010947729.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
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	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 329948 EIL74 RS00710 WP 023202686.1	TFAQSAQWRQAQGRL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA	395
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	TLDQHLTELNVNKNIIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELNVNKNIIISKHTAHEAALN.KSLF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLLAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKS.PESF.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....	345
consensus	!*** * ** ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	PATPAAPAAGRSEPGRCAGGFCRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 329948 EIL74 RS00710 WP 023202686.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAGRSEPGRCAGGFCRR	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 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	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