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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMMDARQAEEFKQ	TREANFAVVRD	75						
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGV	MNEQQRREFTENHECNFAISAR	76					
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LDGDMIAQLIDS	ITTQKQRQEF	ETHECNFAILNR	76					
NTDB id 300026 CHD18 RS04070 WP 001055643.1	MNMEEIVTL	SVKHNVSDDLHLCNAWPARWRKQGRMEN...APFTAP	DVDRLLDL	WLNDL	AQQYQWRTHGQLDFAVSL	73					
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILAAAGLP	PQFKLSG	DYDAQGFEL	SASDTRKLMYSMMNERQQRIFE	EKRELD	DFS	FAL	G	80		
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNM	VTSMNDHQRKIYQQN	LEVDFS	FELP			76		
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNM	VTSMNDHQRKIYQQN	LEVDFS	FELP			76		
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGVPPMVR	IDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVDFS	FELP			76		
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGVPPMVR	IDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVDFS	FELP			76		
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAGMPPMIRVDG	DLRKNINLP	PLEHKDVIKI	IYD	IMNDRQRKEYEEFF	FETDFS	FEIA		76		
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAGMPPMIRVDG	DLRKNINLP	PLEHKDVIKI	IYD	IMNDRQRKEYEEFF	FETDFS	FEIA		76		
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSGLPPMIRVDG	DVRRINLP	PAMDHKQV	HALIYD	IMNDKQRKDFEEF	LETDFS	FEVP		76		
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSGLPPMIRVDG	DVRRINLP	PAMDHKQV	HALIYD	IMNDKQRKDFEEF	LETDFS	FEVP		76		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAGIPPMIRVDG	EVRRINLP	PAMDHSEVHN	LIYD	IMNDKQR	RDYEEK	LETDFS	FEVP	76		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEK	LETDFS	FEVP	76		
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEK	LETDFS	FEVP	76		
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEK	LETDFS	FEVP	76		
consensus	***	*****	*!*****	*****	*****	*	*	*	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAI	AKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHI	153	
NTDB id 1203 PSJM300 01605 AFN76401.1	G.TGRFRVSAFYQRNLAGMVLRRRIETNIPTIEDLKL	PDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI	155	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFYQRDMPCGMVIRRIETKIPSPDDLHL	PLPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSGKHI	156	
NTDB id 300026 CHD18 RS04070 WP 001055643.1	G.TRRRLRASAFTHQQGTSLALRLLPERCPDLAEI	IQTPPIVPALLASENGLILVTGATGCGKSTTTLAAMVGHNLQHADKHI	152	
NTDB id 1307 DR RS10055 WP 010888596.1	D.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGL	LPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI	159	
NTDB id 1086 NMV RS00245 WP 002218487.1	N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPS	IFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155	
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPS	IFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155	
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.VGRFRVNAFHQAARGCSAVFRTIPTVIPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYVNAHNNKHI	155	
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.VGRFRVNAFHQAARGCSAVFRTIPTVIPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYVNAHNNKHI	155	
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPP	IFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155	
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPP	IFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155	
NTDB id 1202 PSJM300 01600 AFN76400.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEV	FRKITDVP	RGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEV	FRKRVSDVP	RGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.LARFRVNVFNQNRGAGAVFRTIPSKVLTLEELGLGK	IFRDCIDYPRGLVLVTGPTGSGKSTTLAAMDYINNHR	YDHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQ	IFKDCIDYPRGIVLVTGPTGSGKSTTLAAMDYINEN	RYDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQ	IFKDCIDYPRGIVLVTGPTGSGKSTTLAAMDYINEN	RYDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQ	IFKDCIDYPRGIVLVTGPTGSGKSTTLAAMDYINEN	RYDHI	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 300026 CHD18 RS04070 WP 001055643.1
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
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLG.S.ETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRRERMSEMER.....KMTFDGQRRNLK....	383
NTDB id 300026 CHD18 RS04070 WP 001055643.1	TFAQSAQWRQVQGRL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGGLIAPEAARRRAQNSESMSF.....	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	TLDQSLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDQSLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 01182164.1	TLDQSLKGLLAKGLISRDSAKEKAKQP.ENF.....	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	TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....	345
consensus	!*** * ** ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	APATPAAPAAAGRSEPCGRAGGFCRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 300026 CHD18 RS04070 WP 001055643.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	APATPAAPAAAGRSEPCGRAGGFCRR	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