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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMMDARQA	EFKQ	TREANFAVVRD	75																
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	PMSP	EMTRET	VHGVMMNEQQRREF	TENHECNFAISAR	76															
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKLINGEITPVSKTK	LDGDMIAQLIDSITTQKQRQEF	ETHECNFAILNR	76																	
NTDB id 299937 CHC58 RS03910 WP 001055658.1	MNMEEIVTL	SVKHNVSDHLHCNAWPARWRKQGRME...	TAPFTAPDVDRLLDLWLND	AQQYQWRTHGQLDFAVSL	73																	
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDIILAAGLP	PQFKLSG	DYDAQGFEL	SASDTRKLMYSMMNERQQRIFE	EKKRELD	DFS	FAL	G	80													
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP			76													
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	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	MDIAELLAFAVKNKSSDLHISAGMPPMIRVDG	DLRKNINLP	PLEHKDV	IKIYD	IMNDRQRKE	YEEFF	FET	D	F	S	F	E	I	A	76							
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAVKNKSSDLHISAGMPPMIRVDG	DLRKNINLP	PLEHKDV	IKIYD	IMNDRQRKE	YEEFF	FET	D	F	S	F	E	I	A	76							
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAGLPPMIRVDG	DVRRINLP	PLEHKQV	HALIYD	IMNDKQRK	D	F	E	E	F	L	E	T	D	F	S	F	E	V	P	76	
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSAGLPPMIRVDG	DVRRINLP	PAMDHKQV	HALIYD	IMNDKQRK	D	F	E	E	F	L	E	T	D	F	S	F	E	V	P	76	
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAGIPPMIRVDG	EVRRINLP	PAMDHSEVHN	LIYD	IMNDKQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDV	HRLVYD	IMNDKQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDV	HRLVYD	IMNDKQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDV	HRLVYD	IMNDKQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
consensus	***	*****	*!*****	*****	*****	*****	*	*	*	*	*****	*****	*	*!*****								

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYNQHRTGHI	153
NTDB id 1203 PSJM300 01605 AFN76401.1	G..IGRFRVSAFYQRNLAGMVLRRRIETNIPTIEDLKLDPDVLKKLALTKRGLVLVFGATGTGKSTSLAAMIGYRNKNSSGHI	155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFQQRDMPCGMVIRRIETKIPSPDDLHLPPIILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSGKHI	156
NTDB id 299937 CHC58 RS03910 WP 001055658.1	G.TRRRLRASAFTHQGTSLALRLLPERCPDLAEIQTTPPIVPALLASENGLILVTGATGCGKSTTLAAMVGHNLNQHADKHI	152
NTDB id 1307 DR RS10055 WP 010888596.1	D..KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI	159
NTDB id 1086 NMV RS00245 WP 002218487.1	N..VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155
NTDB id 1116 NGFG RS10615 WP 003690200.1	N..VARFRVNAFNITGRGPAAVFRTIPSTVLSLEELKAPSIQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N..VGRFRVNAFHQAARGCSAVFRTIPTVPIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYNNAHNKHI	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N..VGRFRVNAFHQAARGCSAVFRTIPTVPIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYNNAHNKHI	155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N..LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155
NTDB id 1259 GC085 RS10305 WP 010947729.1	N..LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G..VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFRKRVSDVPRGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1202 PSJM300 01600 AFN76400.1	G..VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N..LARFRVNVFNQNRGAGAVFRTIPSKVLTLEELGLGKIFRDCIDYPRLVLVTGPTGSGKSTTLAAMDYINNHRDYHI	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 299937 CHC58 RS03910 WP 001055658.1
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 ACE17R RS02630 WP 010947729.1
NTDB id 1259 GC085 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 1283 ACE17W RS02630 WP 010947729.1
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NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
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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 299937 CHC58 RS03910 WP 001055658.1	TFAQSAQWRQAQGRL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA	395
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGGLIAPEVARRRAQNSEMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGGLIAPEAARRRAQNSEMSF.....	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	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.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	PATPAAPAAGRSEPCRRACCFGR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 299937 CHC58 RS03910 WP 001055658.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAGRSEPCRRACCFGR	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