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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	VHGVMMNEQQRREF	TENHECNFAISAR	76																
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LDGDMIAQLIDS	ITTQKQRQEF	ETHECNFAILNR	76																
NTDB id 119847 AW55 RS03995 WP 001055643.1	MNMEEIVTL	SVKHNVSDDLHLCNAWPARWRKQGR	MEN...APFTAPD	VDRLLLDWLND	AQQYQWRTHGQLDFAVSL	73																
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILA	AAGLPPQFKLSG	DYDAQGFEL	SASDTRKLMYSMMNER	QQRIFE	EKKRELD	DFS	FAL	G	80												
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	PEMSAE	EVGNM	MTSVMNDHQRKI	YQQN	LEV	D	F	S	F	E	L	P	76						
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	PEMSAE	EVGNM	MTSVMNDHQRKI	YQQN	LEV	D	F	S	F	E	L	P	76						
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRID	GEVRKLGVP	AFTHSDVHRL	LIFEIM	ND	AQRSEYEEK	LEV	D	F	S	F	E	L	P	76						
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRID	GEVRKLGVP	AFTHSDVHRL	LIFEIM	ND	AQRSEYEEK	LEV	D	F	S	F	E	L	P	76						
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLA	FSVKNKSSDLHISAGMPPMIRVDG	DLRKNINLP	PLEHKDV	IKI	IYD	IM	ND	RQRKEYEE	F	F	E	T	D	F	S	F	E	I	A	76	
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLA	FSVKNKSSDLHISAGMPPMIRVDG	DLRKNINLP	PLEHKDV	IKI	IYD	IM	ND	RQRKEYEE	F	F	E	T	D	F	S	F	E	I	A	76	
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDG	DVRRINLP	PAMDHKQV	HALIYD	IM	ND	KQRKD	FEE	F	L	E	T	D	F	S	F	E	V	P	76	
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAG	LPPMIRVDG	DVRRINLP	P	LEHKQV	HALIYD	IM	ND	KQRKD	FEE	F	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDG	EVRRINLP	PAMDHSEVHN	LIYD	IM	ND	KQR	R	D	YEEK	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IM	ND	KQR	R	D	YEEK	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IM	ND	KQR	R	D	YEEK	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IM	ND	KQR	R	D	YEEK	L	E	T	D	F	S	F	E	V	P	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.TGRFRVSAFYQRNLAGMVLRRRIETNIPTIEDLKLDPDVL	KKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI	155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFYQRDMPGMVIRRIETKIPSPDDLHLPPIL	KKELAMSKRGIIIFSGATGTGKSTSLAAMIQHRNQHSGKHI	156
NTDB id 119847 AW55 RS03995 WP 001055643.1	G.TRRRLRASAFTHQQGTSLALRLLPERCPDLAEIQTTP	IVPALLASENGLILVTGATGCGKSTTLAAMVGHNLQHADKHI	152
NTDB id 1307 DR RS10055 WP 010888596.1	D.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQT	VIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI	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.VGRFRVNAFHQARGCSAVFRTIPTV IPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYVNAHNNKHI	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.VGRFRVNAFHQARGCSAVFRTIPTV IPTLEQLDAPE	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.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGE	VFRKITDVP RGLVLVTGPTGSGKSTTLAAML DYLNNTKYHHI	155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGE	VFRKVS DVP RGLVLVTGPTGSGKSTTLAAML DYLNNTKYHHI	155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.LARFRVNVFNQNRGAGAVFRTIPSKVLTLEELGLGK	IFRDCIDYPRGLVLVTGPTGSGKSTTLAAML DYINNHRDYHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQ	IFKDCIDYPRGIVLVTGPTGSGKSTTLAAML DYINENRYDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQ	IFKDCIDYPRGIVLVTGPTGSGKSTTLAAML DYINENRYDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQ	IFKDCIDYPRGIVLVTGPTGSGKSTTLAAML 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 119847 AW55 RS03995 WP 001055643.1
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 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 1185 GTF74 RS11940 WP 000350195.1
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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	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 119847 AW55 RS03995 WP 001055643.1	TFAQSAQWRQVQGRL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGGLIAPEVARRRAQNSESMF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGGLIAPEAARRRAQNSESMF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	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 011182164.1	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	APATPAAPAAAGRSEPCGRAGGFGRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 119847 AW55 RS03995 WP 001055643.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	APATPAAPAAAGRSEPCGRAGGFGRR	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