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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHHAMDDARQA	EFKQTR	EANFAVVRD	75																
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGVMMNEQQR	REFTENHECNFAISAR	76																
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKKINGEITPVSKTK	LDGDMIAQLIDSITTQKQRQ	EFIE	THECNFAILNR	76																
NTDB id 175628 AW97 RS03945 WP 046333072.1	MNMEEIVTL	SVKHNVSDDLHLCNAWPARWRKQGRMEN...APFTAP	DVDRLLLDWLND	AQQYQWRTHGQLDFAVSL	73																	
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDI	ILRLAADKGASDITILAAGLPPQFKLSG	DYDAQGFEL	SASDTRKLMYSMMNER	QQRIFE	EKKRELD	DFS	FAL	G	80												
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	PEMSAE	EVGNM	VTSMNDHQRKI	YQQN	LEV	D	S	F	FELP	76									
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	PEMSAE	EVGNM	VTSMNDHQRKI	YQQN	LEV	D	S	F	FELP	76									
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRID	GEVRKLGVP	AFTHSDVHRL	LIFEIM	ND	AQRSEYEEK	LEV	D	S	F	FELP	76									
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRID	GEVRKLGVP	AFTHSDVHRL	LIFEIM	ND	AQRSEYEEK	LEV	D	S	F	FELP	76									
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLA	FSVKNKSSDLHISAGMPPMIRVDG	DLR	KINLPPLEHK	DVIKII	YD	IMNDRQRKE	YEE	F	F	E	T	D	S	F	E	I	A	76			
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLA	FSVKNKSSDLHISAGMPPMIRVDG	DLR	KINLPPLEHK	DVIKII	YD	IMNDRQRKE	YEE	F	F	E	T	D	S	F	E	I	A	76			
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGASDLHLSSG	LPPMIRVDG	DVRRINLP	PAMD	HKQVHALI	YD	IMNDKQRK	D	FEE	F	L	E	T	D	S	F	E	V	P	76		
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGASDLHLSAG	LPPMIRVDG	DVRRINLP	P	LEHKQVHALI	YD	IMNDKQRK	D	FEE	F	L	E	T	D	S	F	E	V	P	76		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDG	EVRRINLP	PAMD	HS	EVHNL	I	YD	IMNDKQR	R	D	YEEK	L	E	T	D	S	F	E	V	P	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHK	DVHRL	V	YD	IMNDKQR	R	D	YEEK	L	E	T	D	S	F	E	V	P	76	
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHK	DVHRL	V	YD	IMNDKQR	R	D	YEEK	L	E	T	D	S	F	E	V	P	76	
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHK	DVHRL	V	YD	IMNDKQR	R	D	YEEK	L	E	T	D	S	F	E	V	P	76	
consensus	***	*****	*!*****	*****	*****	*****	*	*	*	*	*****	*****	*	*!*****								

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..	SCRFRVSAFFQRELP	CAVIRRIET	RIPTFEELKLPE	VLQNLAI	AKRGLVLVVG	ATGSGKSTT	MAAMTGYRN	QHR	TGHI	153			
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	TGRFRVSAFYQR	NLAGMVLRR	IETNIPT	IEDLKL	PDVLKKL	ALT	KRGLVL	VFVGATG	TGKSTSLAAM	IGYRNKNSSGHI	155		
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFYQR	QDMPGMVIRRIET	KIPSPDDL	HLP	PILKEL	AMSKRG	IIIF	SGATG	TGKSTSLASMI	QHRNQHSGKHI	156		
NTDB id 175628 AW97 RS03945 WP 046333072.1	G.	TRRLRASAF	THQQGTSL	LRL	LPERCP	DLAKITQTP	IVPALL	ASENGLIL	VTGATG	CGKSTTLAAM	VGYNQHADKHI	152		
NTDB id 1307 DR RS10055 WP 010888596.1	D.	KARFRVNAFM	QRGNVGGVMRL	IP	TTVRTIAEM	GLPQTVIDIAN	APRGLVL	VTGPTGSGKSTTLAS	MIDHINTT	KKLHI	159			
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	VARFRVNAFN	IGRGPAAV	FRTIPSTVLS	LEELKAPSIFQK	IAESPRGM	VL	VTGPTGSGKSTTLAAM	INYINETQPAHI	155				
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	VARFRVNAFN	TGRGPAAV	FRTIPSTVLS	LEELKAPSIFQK	IAESPRGM	VL	VTGPTGSGKSTTLAAM	INYINETQPAHI	155				
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	VGRFRVNAFHQ	ARGCSAV	FRTIPTV	IP	TL	EQ	LD	DAPEIFSKIAN	YEKGLVL	VTGPTGSGKSTTLAAM	VNYVNAH	HNKHI	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	VGRFRVNAFHQ	ARGCSAV	FRTIPTV	IP	TL	EQ	LD	DAPEIFSKIAN	YEKGLVL	VTGPTGSGKSTTLAAM	VNYVNAH	HNKHI	155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	LARFRVNAFN	QSRGAAV	FRTIPSEIL	SMEDLGL	PIFKEM	ASFSRGLV	VTGPTGSGKSTTLAAM	VIDYINSSRYEHI	155				
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	LARFRVNAFN	QSRGAAV	FRTIPSEIL	SMEDLGL	PIFKEM	ASFSRGLV	VTGPTGSGKSTTLAAM	VIDYINSSRYEHI	155				
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	VARFRVNAFN	QNRGAGAV	FRTIPSKVLT	MEELG	MGEVFRK	ITD	VPRGLVL	VTGPTGSGKSTTLAAM	LDYLNNTKYHHI	155			
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	VARFRVNAFN	QNRGAGAV	FRTIPSKVLT	MEELG	MGEVFRK	ITD	VPRGLVL	VTGPTGSGKSTTLAAM	LDYLNNTKYHHI	155			
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.	LARFRVN	VFNQNRGAGAV	FRTIPSKVLT	LEELGL	GKIFR	DICD	YPRGLVL	VTGPTGSGKSTTLAAM	LDYINNHR	YDHI	155		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	VARFRVNAFN	QNRGAGAV	FRTIPSKVLT	MEELGL	GKIFK	DICD	YPRG	IV	LV	VTGPTGSGKSTTLAAM	LDYINEN	RYDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	VARFRVNAFN	QNRGAGAV	FRTIPSKVLT	MEELGL	GKIFK	DICD	YPRG	IV	LV	VTGPTGSGKSTTLAAM	LDYINEN	RYDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	VARFRVNAFN	QNRGAGAV	FRTIPSKVLT	MEELGL	GKIFK	DICD	YPRG	IV	LV	VTGPTGSGKSTTLAAM	LDYINEN	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 175628 AW97 RS03945 WP 046333072.1
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 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 175628 AW97 RS03945 WP 046333072.1
NTDB id 1307 DR RS10055 WP 010888596.1
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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
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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	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 175628 AW97 RS03945 WP 046333072.1	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	TLDSCCLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMLKGLVAKGLISRENAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	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 175628 AW97 RS03945 WP 046333072.1	.....	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 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