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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTA	LLHAMMDARQAEEFKQ	TREANFAVVRD	75							
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRETVHGV	MNEQQRREFTENHECNFAISAR	76							
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKKINGEITPVSKTK	LDGDMIAQLIDSITTQKQRQEF	ETHECNFAILNR	76							
NTDB id 214033 BKQ24 RS03880 WP 001055649.1	MNMEEIVTL	SVKHNVSDLHLCNAWPARWRKQGRMEN...APFTAP	DVDRLLLDWLND	AQQYQWRTHGQLDFAVSL	73							
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDI	ILRLAADKGASDITILAAAGLP	PQFKLSGDYDAQGFEL	SASDTRKLMYSMMNERQQRI	FEEREKRELD	DFS	FAL	G	80			
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNM	VTSMNDHQRKI	YQQNLE	VDFS	FELP	76			
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNM	VTSMNDHQRKI	YQQNLE	VDFS	FELP	76			
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLG	VPAFTHSDVHRL	LIFEIMNDAQRSE	EYEEKLE	VDFS	FELP	76				
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLG	VPAFTHSDVHRL	LIFEIMNDAQRSE	EYEEKLE	VDFS	FELP	76				
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFAFSVKNKSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDVIKI	IYD	IMNDRQRKE	EYEEFF	FETD	DFS	FEIA	76		
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAFSVKNKSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDVIKI	IYD	IMNDRQRKE	EYEEFF	FETD	DFS	FEIA	76		
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQVHALIYD	IMNDKQRK	DFEEF	LET	D	DFS	FELP	76		
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQVHALIYD	IMNDKQRK	DFEEF	LET	D	DFS	FELP	76		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDGEVRRINLP	PAMDHSEVHNLIYD	IMNDKQR	RDYEEKLE	T	D	DFS	FELP	76		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEKLE	T	D	DFS	FELP	76	
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEKLE	T	D	DFS	FELP	76	
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEKLE	T	D	DFS	FELP	76	
consensus	***	*****	*!*****	*****	*****	*	*	*	*****	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	. .	SGRFRVSAFFQRELP	CAVIRRIET	RIPTFEELK	LPEVLQNL	LAI	AKRGLVLV	VGATGSGKSTT	MAAMTGYR	NQHR	TGHI	153
NTDB id 1203 PSJM300 01605 AFN76401.1	G. I	GRFRVSAFYQR	NLAGMVLRR	IETNIPT	IEDLKL	PDVLK	KLALTKRGLV	LVFGATGTGKST	SLAAMIGYR	NKNSSGHI	155	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFYQR	QDMPGMVIRRIET	KIPSPDDL	HLP	PILKEL	AMSKRGII	IFSGATGTGKST	SLASMIQHR	NQHSKGHI	156	
NTDB id 214033 BKQ24 RS03880 WP 001055649.1	G. TRRL	LRASAFTH	QQGTSLALRL	LPERCPDLAK	ITQTP	IVPALL	ASENGLIL	VTGATGCGKST	TLAAMVGYR	NQHADKHI	152	
NTDB id 1307 DR RS10055 WP 010888596.1	D. K	ARFRVNAFMQRGNV	GGVMRLIPT	TVRTIAEM	GLPQT	VIDIANAPRGLV	LVGTGPTGSGKST	TTLASMIDHINTT	KLHI	159		
NTDB id 1086 NMV RS00245 WP 002218487.1	N. V	ARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSI	IFQKIAESPRGM	VLVTGPTGSGKST	TTLAAMINYINETQPAHI	155			
NTDB id 1116 NGFG RS10615 WP 003690200.1	N. V	ARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSI	IFQKIAESPRGM	VLVTGPTGSGKST	TTLAAMINYINETQPAHI	155			
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N. V	GRFRVNAFHQA	RGCSAVFRTIPT	TVIPTLE	QLDAPEIF	SKIANYEK	GLVLVTGPTGSGKST	TTLAAMVNYVNAHNNKHI	155			
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N. V	GRFRVNAFHQA	RGCSAVFRTIPT	TVIPTLE	QLDAPEIF	SKIANYEK	GLVLVTGPTGSGKST	TTLAAMVNYVNAHNNKHI	155			
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N. L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPI	FKEMASFSRGLV	LVGTGPTGSGKST	TTLAAMVIDYINSSRYEHI	155			
NTDB id 1259 GC085 RS10305 WP 010947729.1	N. L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPI	FKEMASFSRGLV	LVGTGPTGSGKST	TTLAAMVIDYINSSRYEHI	155			
NTDB id 1202 PSJM300 01600 AFN76400.1	G. V	ARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGMGEV	FRKITD	VPRGLVLVTGPTGSGKST	TTLAAMDYLNNTKYHHI	155				
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G. V	ARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGMGEV	FRKITD	VPRGLVLVTGPTGSGKST	TTLAAMDYLNNTKYHHI	155				
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N. L	ARFRVNVFNQNRGAGAV	FRTIPSKVLT	LEELGLGKIF	RDICDYP	RGLVLVTGPTGSGKST	TTLAAMDYINNHR	YDHI	155			
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N. V	ARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGLGQIF	KD	ICDYP	RIVLVTGPTGSGKST	TTLAAMDYINENR	YDHI	155		
NTDB id 1040 HON27 RS13360 WP 000355489.1	N. V	ARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGLGQIF	KD	ICDYP	RIVLVTGPTGSGKST	TTLAAMDYINENR	YDHI	155		
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N. V	ARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGLGQIF	KD	ICDYP	RIVLVTGPTGSGKST	TTLAAMDYINENR	YDHI	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 214033 BKQ24 RS03880 WP 001055649.1
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	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSE.TDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRRERMSEMER.....KMTFDGQRRNLK....	383
NTDB id 214033 BKQ24 RS03880 WP 001055649.1	TFAQSAQWRQAQGRL.....	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	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 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 214033 BKQ24 RS03880 WP 001055649.1	.....	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