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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMDDARQA	EFKQTR	EANFAVVRD	75						
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGV	MNEQQRREFTENHECNFAISAR	76						
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSL	KINGEITPVSKTK	LDGDMIAQLIDSITTQKQRQEF	ETHECNFAILNR	76						
NTDB id 193972 BFQ28 RS08880 WP 003027090.1	MNMEEIVALS	SVKHNVSDDLHLCNAWP	PARWRRHGKVES...APFTAPD	VENLLMCWLSE	QQQVQLQEQQIDFAVTLT	73						
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDIILRLAADKGASDITILAA	GLPPQFKLSG	DYDAQGFEP	LSASDTRKLMYSMMNERQQRI	FEEREKRELD	DFS	FALG	80				
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	EMSAEEVGNM	MTSVMNDHQRKI	YQQNLE	VDFS	FELP	76			
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	EMSAEEVGNM	MTSVMNDHQRKI	YQQNLE	VDFS	FELP	76			
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGV	PPMVRIDGEVRKLG	VPAFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVD	DFS	FELP	76				
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGV	PPMVRIDGEVRKLG	VPAFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVD	DFS	FELP	76				
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFA	SVKNGSSDLHISAGMPPMIRVDG	DLRKNINLP	P	LEHKDV	IKI	IYD	IMNDRQRKEYEEFFET	DFS	FEIA	76	
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFA	SVKNGSSDLHISAGMPPMIRVDG	DLRKNINLP	P	LEHKDV	IKI	IYD	IMNDRQRKEYEEFFET	DFS	FEIA	76	
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSGL	PPMIRVDGDVRRINLP	PAMDHKQV	HALIYD	IMNDKQRK	DFEEF	LET	DFS	FEVP	76		
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSGL	PPMIRVDGDVRRINLP	PAMDHKQV	HALIYD	IMNDKQRK	DFEEF	LET	DFS	FEVP	76		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAGI	PPMIRVDGEVRRINLP	PAMDHSEVHN	LIYD	IMNDKQR	RDYEEK	LET	DFS	FEVP	76		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGM	PPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEK	LET	DFS	FEVP	76		
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGM	PPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEK	LET	DFS	FEVP	76		
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAGM	PPMIRVDGEVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEK	LET	DFS	FEVP	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	GRFRVSAFYQRNL	AGMVLRR	IETNIPT	IEDLKL	PDVLKK	LALTKRGLVL	VFVGATGTGKST	SLAAMIGYR	NKNSSGHI		155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFYQR	DMPCGMVIRRIET	KIPSPDDL	HLP	PILKELAMSKRG	IIIFSGATGTGKST	SLASMI	QHRN	QHSKGHI		156
NTDB id 193972 BFQ28 RS08880 WP 003027090.1	D. S	RRLRASAFVHLQ	GTSLALRL	LPLDCPH	LLD	LQPPA	VIPELLHSENG	LILVTGATGSGKST	TLAAMVEY	LNQHI	EGHI	152
NTDB id 1307 DR RS10055 WP 010888596.1	D. K	ARFRVNAFMQRGNV	GGVMRLIPT	TVRTIAEM	GLPQT	VIDIANAPRGLV	LVLTGPTGSGKST	TLASMI	DHINTT	KKLHI		159
NTDB id 1086 NMV RS00245 WP 002218487.1	N. V	ARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSI	IFQKIAES	PRGMVLVTGPTGSGKST	TLAAMIN	YINETQ	PAHI		155
NTDB id 1116 NGFG RS10615 WP 003690200.1	N. V	ARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSI	IFQKIAES	PRGMVLVTGPTGSGKST	TLAAMIN	YINETQ	PAHI		155
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N. V	GRFRVNAFHQA	RGC	SAVFRTIP	TVIPTLE	QLDAPEIF	SKIANYEKGLV	LVLTGPTGSGKST	TLAAMVNY	VNAH	NKH	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N. V	GRFRVNAFHQA	RGC	SAVFRTIP	TVIPTLE	QLDAPEIF	SKIANYEKGLV	LVLTGPTGSGKST	TLAAMVNY	VNAH	NKH	155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N. L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLP	PIFKEMAS	FSRGLVLVTGPTGSGKST	TLAAVIDY	INSSRYEHI		155	
NTDB id 1259 GC085 RS10305 WP 010947729.1	N. L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLP	PIFKEMAS	FSRGLVLVTGPTGSGKST	TLAAVIDY	INSSRYEHI		155	
NTDB id 1202 PSJM300 01600 AFN76400.1	G. V	ARFRVNAFNQNRGAGAV	FRTIP	SKVLTMED	LGMGEV	FRKITD	VPRGLVLVTGPTGSGKST	TLAAML	DYLNNTKY	HHI		155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G. V	ARFRVNAFNQNRGAGAV	FRTIP	SKVLTMED	LGMGEV	FRKITD	VPRGLVLVTGPTGSGKST	TLAAML	DYLNNTKY	HHI		155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N. L	ARFRVNVFNQNRGAGAV	FRTIP	SQVLTLEEL	LGLGK	IFRDICDYP	RGLVLVTGPTGSGKST	TLAAML	DYINN	HR	YDHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N. V	ARFRVNAFNQNRGAGAV	FRTIP	SKVLTMED	LGLGQ	IFKDICDYP	RGLVLVTGPTGSGKST	TLAAML	DYIN	EN	RYDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N. V	ARFRVNAFNQNRGAGAV	FRTIP	SKVLTMED	LGLGQ	IFKDICDYP	RGLVLVTGPTGSGKST	TLAAML	DYIN	EN	RYDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N. V	ARFRVNAFNQNRGAGAV	FRTIP	SKVLTMED	LGLGQ	IFKDICDYP	RGLVLVTGPTGSGKST	TLAAML	DYIN	EN	RYDHI	155
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 193972 BFQ28 RS08880 WP 003027090.1	TFAQSLQQRQAQGRLL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVVRQGLIAPEVARRRAQNSESMSEF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVVRQGLIAPEAARRRAQNSESMSEF.....	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	APATPAAPAAAGRSEPCGRACCFGRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 193972 BFQ28 RS08880 WP 003027090.1	.....	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 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