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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMD	DARQAEFKQ	TR	EANFA	AVVRD	75						
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	PMSP	EMTRET	VHGV	MNEQQR	REFTE	NHECN	FAISAR	76				
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKRINGEITPVSKTK	LDGDM	IAQLIDS	ITTQKQR	QEFIE	THECN	FAILNR		76				
NTDB id 325376 EGX89 RS09865 WP 016150970.1	MNMEEIVALS	SVKHNVSDLHLCNAWPARWRRRGKVES...	APFTTPDV	ENLLMCW	LS	EQQQVQLQ	EQGGQID	FAVTLT		73				
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDI	ILRLAADKGASDITILAAAGLP	PQFKLSG	DYDAQGFEL	SASDTRKLMYS	MMNERQQRI	FEEKRELD	DFS	FALG	80				
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	PEMSAE	EVGNM	VTSMNDHQRKI	YQQNLE	VDFS	FELP	76				
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLP	PEMSAE	EVGNM	VTSMNDHQRKI	YQQNLE	VDFS	FELP	76				
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSE	EYEEKLE	VDFS	FELP			76				
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSE	EYEEKLE	VDFS	FELP			76				
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDVIKI	IYD	IMNDRQRKE	YEEFFET	D	F	S	F	E	I	A	76
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDVIKI	IYD	IMNDRQRKE	YEEFFET	D	F	S	F	E	I	A	76
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQV	HALIYD	IMNDKQRKD	FEEFLET	D	F	S	F	E	V	P	76
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQV	HALIYD	IMNDKQRKD	FEEFLET	D	F	S	F	E	V	P	76
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDGEVRRINLP	PAMDHSEVHN	LIYD	IMNDKQR	RDYEEKLET	D	F	S	F	E	V	P	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRL	LVYD	IMNDKQR	RDYEEKLET	D	F	S	F	E	V	P	76
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRL	LVYD	IMNDKQR	RDYEEKLET	D	F	S	F	E	V	P	76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRL	LVYD	IMNDKQR	RDYEEKLET	D	F	S	F	E	V	P	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	PDVLKKL	ALTKRGLVL	VFVGATGTGKST	SLAAMIGYR	NKNSSGHI		155	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFQ	QRDMPGMVIRRIET	KIPSPDDL	HLPPIL	KELAMSKRG	IIIFSGA	TGTGKST	SLASMI	QHRN	QHSKGHI		156	
NTDB id 325376 EGX89 RS09865 WP 016150970.1	D. S	RRLRASAFVHQ	GTSLALRL	LPLDCPH	LLD	LQPPA	VIPELLHSENG	LILVTGATGSGKSTT	LAA	MEYLN	QHIEGHI	152	
NTDB id 1307 DR RS10055 WP 010888596.1	D. K	ARFRVNAFMQR	GNVGGVMRL	IPITV	RTIAEM	GLPQT	VIDIANAP	RGLVLVTGPTGSGKSTT	LAS	MIDHINT	TKLHI	159	
NTDB id 1086 NMV RS00245 WP 002218487.1	N. V	ARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQK	IAESPRGM	VLVTGPTGSGKSTT	LAA	MINYIN	ETQPAHI		155	
NTDB id 1116 NGFG RS10615 WP 003690200.1	N. V	ARFRVNAFNITGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQK	IAESPRGM	VLVTGPTGSGKSTT	LAA	MINYIN	ETQPAHI		155	
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N. V	GRFRVNAFHQA	RGC	SAVFRTIPT	VIPTLE	QLDAPEIF	SKIANYEK	GLVLVTGPTGSGKSTT	LAA	VNYVNA	HHNKHI	155	
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N. V	GRFRVNAFHQA	RGC	SAVFRTIPT	VIPTLE	QLDAPEIF	SKIANYEK	GLVLVTGPTGSGKSTT	LAA	VNYVNA	HHNKHI	155	
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N. L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPI	FKEMAS	FSRGLVLVTGPTGSGKSTT	LAA	VIDYIN	SSRYEHI		155	
NTDB id 1259 GC085 RS10305 WP 010947729.1	N. L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPI	FKEMAS	FSRGLVLVTGPTGSGKSTT	LAA	VIDYIN	SSRYEHI		155	
NTDB id 1202 PSJM300 01600 AFN76400.1	G. V	ARFRVNAFNQNRG	AGAVFRTIP	SKVLT	MEDLGM	GEVFRK	ITD	VPRGLVLVTGPTGSGKSTT	LAA	MDYLN	NNTKYHHI	155	
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G. V	ARFRVNAFNQNRG	AGAVFRTIP	SKVLT	MEDLGM	GEVFRK	ITD	VPRGLVLVTGPTGSGKSTT	LAA	MDYLN	NNTKYHHI	155	
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N. L	ARFRVNVFNQNRG	AGAVFRTIP	SKVLT	LEELGL	GKIFRD	ICDYPRGLVLVTGPTGSGKSTT	LAA	MDYINN	HRDYHI		155	
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N. V	ARFRVNAFNQNRG	AGAVFRTIP	SKVLT	MEDLGL	GQIFKD	ICDYPRGLVLVTGPTGSGKSTT	LAA	MDYIN	ENRYDHI		155	
NTDB id 1040 HON27 RS13360 WP 000355489.1	N. V	ARFRVNAFNQNRG	AGAVFRTIP	SKVLT	MEDLGL	GQIFKD	ICDYPRGLVLVTGPTGSGKSTT	LAA	MDYIN	ENRYDHI		155	
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N. V	ARFRVNAFNQNRG	AGAVFRTIP	SKVLT	MEDLGL	GQIFKD	ICDYPRGLVLVTGPTGSGKSTT	LAA	MDYIN	ENRYDHI		155	
consensus	*	***!***	***	*****	*****	***	***	***	*****	*****	***	!!	

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 325376 EGX89 RS09865 WP 016150970.1
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

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 325376 EGX89 RS09865 WP 016150970.1
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 325376 EGX89 RS09865 WP 016150970.1	TFAQSLQQRQAQGR.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGIIAPEVARRRAQNSESMSEF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGIIAPEAARRRAQNSESMSEF.....	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	APATPAAPAAAGRSEPCGRAGGFCRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 325376 EGX89 RS09865 WP 016150970.1	.....	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 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