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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	VHGVMMNEQQRREFTENHECNFAISAR	76								
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTKLDGDMIAQLIDS	ITTQKQRQEFIE	THECNFAILNR	76								
NTDB id 265049 C2D62 RS03755 WP 022064838.1	MKLEEIVALLSVKHNVSD	LHLCSAAPRWRRQGKLEPAPFPAP...	DIPDLLHCWLDAGQLQHWQEQGQIDFALTLLA	73									
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILAAGL	PPQFKLSGDYDAQGFEP	ISASDTRKLMYSMMNERQQRIFE	EKKRELD	80								
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAEVGNMVTSMVNDHQKRIYQQNLE	VDFS	76								
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAEVGNMVTSMVNDHQKRIYQQNLE	VDFS	76								
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHL	SAGVPPMVRIDG	EVKRLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLE	VDFS	76								
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHL	SAGVPPMVRIDG	EVKRLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLE	VDFS	76								
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFAFSVKNKSSDLHISAGM	PPMIRVDGLRKINLPPLEHKDVIKI	IYD	IMNDRQRKEYEEFFETD	DFS	76							
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAFSVKNKSSDLHISAGM	PPMIRVDGLRKINLPPLEHKDVIKI	IYD	IMNDRQRKEYEEFFETD	DFS	76							
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSGL	PPMIRVDGDVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEEFLET	DFS	76							
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHL	SAGLPPMIRVDGDVRRINLPPLEHKQVHALIYD	IMNDKQRKDFEEFLET	DFS	76								
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHL	SAGIPPMIRVDGEVRRINLPAMD	HSEVHNLIYD	IMNDKQRDDYEEKLET	DFS	76							
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLPAL	EHKDVHRLVYD	IMNDKQRDDYEEKLET	DFS	76							
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLPAL	EHKDVHRLVYD	IMNDKQRDDYEEKLET	DFS	76							
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHL	SAGMPPMIRVDGEVRRINLPAL	EHKDVHRLVYD	IMNDKQRDDYEEKLET	DFS	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.TGRFRVSAFYQRNLACGMVLRRRIETNIPTIEDLKL	PDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI	155											
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFQQRDMPGMVIIRRIETKIPSPDDLHL	PLILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSGKHI	156											
NTDB id 265049 C2D62 RS03755 WP 022064838.1	C.GLRLRASAFAHTRGISLVLRL	LPEQCPRIETLGAPPALSETLAEESGLLLVTGATGSGKSTTLAAMVGHINQRLDGH	152											
NTDB id 1307 DR RS10055 WP 010888596.1	D.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLP	QPTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI	159											
NTDB id 1086 NMV RS00245 WP 002218487.1	N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAP	SIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYNINETQPAHI	155											
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAP	SIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYNINETQPAHI	155											
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.VGRFRVNAFHQARGCSAVFRTIPTV	IPITLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYNNAHNKHI	155											
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.VGRFRVNAFHQARGCSAVFRTIPTV	IPITLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVYNNAHNKHI	155											
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGL	PPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155											
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGL	PPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155											
NTDB id 1202 PSJM300 01600 AFN76400.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGM	GEVFRKITDVP	RGLVLVTGPTGSGKSTTLAAML	DYLNNTKYHHI	155									
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGM	GEVFRKVS	DVPRGLVLVTGPTGSGKSTTLAAML	DYLNNTKYHHI	155									
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.LARFRVNVFNQNRGAGAVFRTIPSKVLTLEELGL	GKIFRDI	CDYPRGLVLVTGPTGSGKSTTLAAML	DYINNHR	YDHI	155								
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGL	GQIFKDI	CDYPRGIVLVTGPTGSGKSTTLAAML	DYINEN	RYDHI	155								
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGL	GQIFKDI	CDYPRGIVLVTGPTGSGKSTTLAAML	DYINEN	RYDHI	155								
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGL	GQIFKDI	CDYPRGIVLVTGPTGSGKSTTLAAML	DYINEN	RYDHI	155								
consensus	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *

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NTDB id 1203 PSJM300 01605 AFN76401.1
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NTDB id 265049 C2D62 RS03755 WP 022064838.1
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 1307 DR RS10055 WP 01088596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
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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 265049 C2D62 RS03755 WP 022064838.1	TFTQSFQQRVAAGEL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGGLIAPEVARRRAQNSESMSEF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGGLIAPEAARRRAQNSESMSEF.....	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	TLDQHLTELNVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELNVNKNIISKHTAHEAALNK.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	TLDQSLKGLLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLLVARGVISPQTARTAAKQP.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 265049 C2D62 RS03755 WP 022064838.1	.....	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