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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLITHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMD	DARQAEFKQ	TREAN	FAVVRD	75				
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGVMMNEQ	QRREFTEN	HECNFAISAR	76				
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LDGDMIAQLIDSITTQK	QRQEF	ETHECN	FAILNR	76				
NTDB id 267773 C2U49 RS15295 WP 004900568.1	MKLEEIVALS	SVKHNVSDLHLCNSAAPRWRRQ	GRLQPAPFP...APDTIAN	LLNDWLDAAQLLHWQEHG	QIDFALT	LA	73				
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDIILRLAADKGASDITILAA	AGLPQFKLSG	DYDAQGFEL	SASDTRKLMYSMMNERQ	QRIFEKRE	LDDFS	FALG	80			
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP	76			
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQN	LEVDFS	FELP	76			
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	PAFTHS	DVHRLIFE	IMNDAQRSEYEEK	LEVDFS	FELP	76			
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	PAFTHS	DVHRLIFE	IMNDAQRSEYEEK	LEVDFS	FELP	76			
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFAFSVKNKSSDLHISAG	MPPMIRVDGDLR	KINLPPLEHKDV	IKIYD	IMNDRQRKEYEEFF	FETDFS	FEIA	76			
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAFSVKNKSSDLHISAG	MPPMIRVDGDLR	KINLPPLEHKDV	IKIYD	IMNDRQRKEYEEFF	FETDFS	FEIA	76			
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQVHALIYD	IMNDKQRKDFEE	FLETDFS	SFEVP	76				
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAG	LPPMIRVDGDVRRINLP	PLEHKQVHALIYD	IMNDKQRKDFEE	FLETDFS	SFEVP	76				
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDGEVRRINLP	PAMDHS	EVHNL	IYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLETDFS	SFEVP	76				
consensus	***	*****	*!*****	*****	*****	*	*	*	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..S	GFRFRVSAFFQRELP	GAVIRRIET	RIPTFEEL	KLPEVLQNL	IAIAKRG	LVLVVGAT	TGSGKSTT	MAAMTGYRNQHR	RTGHI	153			
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	I	GFRFRVSAFYQRNLAGMVL	RR	RIETNIPT	IEDLKL	PDVLKKL	ALT	KRGLVLFVGAT	TG	TGKSTSLAAMIGYRNKNSSGHI	155		
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFQQRDM	PGM	VIRRIETKIP	SPDDLHL	PPILKEL	AMSKRGII	IFSGAT	TG	TGKSTSLASMIQHRNQHSGKHI	156			
NTDB id 267773 C2U49 RS15295 WP 004900568.1	C.	G	ARLRASAF	AHTRGISL	VLRL	LPEQ	CPRLDTL	GAPP	ALSELLA	EESGLLLVTGAT	TGSGKSTT	LAAMVGHINQHLDGHI	152	
NTDB id 1307 DR RS10055 WP 010888596.1	D.	K	ARFRVNAFMQRGNV	GGVMRLIPT	TVRTIA	EMGLPQT	VIDIANAP	RGLVLVTGPT	TGSGKSTT	LAAS	MIDHINTTKL	KLHI	159	
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	V	ARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQ	KIAESPRGM	VLVTGPT	TGSGKSTT	LAAMIN	YINETQPAHI	155		
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	V	ARFRVNAFNTGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQ	KIAESPRGM	VLVTGPT	TGSGKSTT	LAAMIN	YINETQPAHI	155		
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	V	GFRFRVNAFHQARGCS	AVFRTIPT	TVIPTLE	QLDAPEIF	SKIANYEK	KGLVLVTGPT	TGSGKSTT	LAAMVNYVNAH	HNKHI	155		
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	V	GFRFRVNAFHQARGCS	AVFRTIPT	TVIPTLE	QLDAPEIF	SKIANYEK	KGLVLVTGPT	TGSGKSTT	LAAMVNYVNAH	HNKHI	155		
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPIFK	EMASFSR	RGLVLVTGPT	TGSGKSTT	LAAVIDYIN	SSRYEHI	155		
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	L	ARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPIFK	EMASFSR	RGLVLVTGPT	TGSGKSTT	LAAVIDYIN	SSRYEHI	155		
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	V	ARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGMGEV	FRKITD	VPRGLVLVTGPT	TGSGKSTT	LAAML	DYLNNTKYHHI	155		
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	V	ARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEELGMGEV	FRKITD	VPRGLVLVTGPT	TGSGKSTT	LAAML	DYLNNTKYHHI	155		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.	L	ARFRVNVFNQNRGAG	AVFRTIP	SQVLT	LEELGLGKIF	RDICDYPR	RGLVLVTGPT	TGSGKSTT	LAAML	DYINNHR	YDHI	155	
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	V	ARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGLGQIF	KD	ICDYPRG	IVLVTGPT	TGSGKSTT	LAAML	DYINENR	YDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	V	ARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGLGQIF	KD	ICDYPRG	IVLVTGPT	TGSGKSTT	LAAML	DYINENR	YDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	V	ARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGLGQIF	KD	ICDYPRG	IVLVTGPT	TGSGKSTT	LAAML	DYINENR	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 267773 C2U49 RS15295 WP 004900568.1
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 267773 C2U49 RS15295 WP 004900568.1	TFTQSFQQRVAAGAL.....	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	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	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 267773 C2U49 RS15295 WP 004900568.1	.....	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