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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	VHGVMMNEQQR	REFTENHECNFAISAR	76						
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKGINGEITPVSKTKL	DGDMIAQLIDSITTQKQRQ	EFIE	THECNFAILNR	76						
NTDB id 311591 D0899 RS03870 WP 004900568.1	MKLEEIVALS	SVKHNVSDLHLCNSAAPRWRRQGRLQPAPFP...APDTIAN	LLNDWLDAAQ	LLHWQEHGQIDFALT	LA	73						
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDIILRLAADKGASDITILAAAGLPPQFKLSG	DYDAQGFEL	SASDTRKLMYSMMNERQQRIFE	EKRELD	EFKRELD	80						
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLE	VDFS	76						
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLE	VDFS	76						
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGVPPMVRID	GEVRKLGVP	PAFTHSDVHRLIFE	IMNDAQRSEYEEKLE	VDFS	76						
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGVPPMVRID	GEVRKLGVP	PAFTHSDVHRLIFE	IMNDAQRSEYEEKLE	VDFS	76						
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLA	FSVKNKSSDLHISAGMPPMIRVDGDLR	KNINLPPLEHKDVIKI	IYD	IMNDRQRKEYEEFFET	D	76					
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLA	FSVKNKSSDLHISAGMPPMIRVDGDLR	KNINLPPLEHKDVIKI	IYD	IMNDRQRKEYEEFFET	D	76					
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSGLPPMIRVDG	DVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEE	FLET	D	76					
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSGLPPMIRVDG	DVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEE	FLET	D	76					
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAGIPPMIRVDG	EVRRINLPAMD	HS	EVHNL	IYD	IMNDKQR	RDYEEKLE	D	76			
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLE	D	76					
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLE	D	76					
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLP	PALEHKDVHRLVYD	IMNDKQR	RDYEEKLE	D	76					
consensus	***	*****	*!*****	*****	*****	*	*	*	*****	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..S	GFRFRVSAFFQRELP	GAVIRRIET	RIPTFEELK	LPV	LQNLAI	AKRGLV	LVVGAT	TGSGKSTT	MAAMT	GYRNQHR	BTGHI	153	
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	IGRFRVSAFYQRNLAGMVL	RRIETNIPT	IEDLKLP	DVLKKL	ALT	KRGLV	LVFGAT	TG	TGKSTSLAAM	IGYRN	KNSSGHI	155	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFQQRDM	PGMVI	RRIETKIP	SPDDL	HLP	ILKELAM	SKRGII	IFSGAT	TG	TGKSTSLA	MIQHRN	QHSGHI	156
NTDB id 311591 D0899 RS03870 WP 004900568.1	C.	GARLRASAF	AHTRGISL	VLRL	LPEQ	CPRLD	TLGAPP	ALSESGL	LLVTGAT	TGSGKSTT	LAAMVGH	LNQHL	DGHI	152
NTDB id 1307 DR RS10055 WP 010888596.1	D.	KARFRVNAFMQRGNV	GGVMRLIPT	TVRTIA	EMGLP	QTVID	IANAPRGLV	LVLTGPT	TGSGKSTT	LAAS	MDHINT	TKLHI	159	
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	VARFRVNAFNIGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQ	KIAESPRGM	VLVTGPT	TGSGKSTT	LAAMIN	YINET	QPAHI	155		
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	VARFRVNAFNTGRGP	AAVFRTIP	STVLSLEEL	KAPSIFQ	KIAESPRGM	VLVTGPT	TGSGKSTT	LAAMIN	YINET	QPAHI	155		
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	VGRFRVNAFHQARGCS	AVFRTIPT	TVIPTLE	QLDAPEIF	SKIAN	YEKGLV	LVLTGPT	TGSGKSTT	LAAMV	NYVNAH	HNKHI	155	
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	VGRFRVNAFHQARGCS	AVFRTIPT	TVIPTLE	QLDAPEIF	SKIAN	YEKGLV	LVLTGPT	TGSGKSTT	LAAMV	NYVNAH	HNKHI	155	
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	LARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPIFK	EMASFSRGLV	LVLTGPT	TGSGKSTT	LAAVIDY	INSSRYEHI	155			
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	LARFRVNAFNQSRGA	AAVFRTIP	SEILSMED	LGLPPIFK	EMASFSRGLV	LVLTGPT	TGSGKSTT	LAAVIDY	INSSRYEHI	155			
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGMGEVFRK	ITD	VPRGLV	LVLTGPT	TGSGKSTT	LAAML	DYLNNT	KYHHI	155	
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGMGEVFRK	ITD	VPRGLV	LVLTGPT	TGSGKSTT	LAAML	DYLNNT	KYHHI	155	
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.	LARFRVNVFNQNRGAG	AVFRTIP	SKVLT	LEELGLGKIFR	DICDYPRGLV	LVLTGPT	TGSGKSTT	LAAML	DYINN	HRDYHI	155		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGLGQIFK	DICDYPRG	IVLV	TGPT	TGSGKSTT	LAAML	DYINEN	RYDHI	155	
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGLGQIFK	DICDYPRG	IVLV	TGPT	TGSGKSTT	LAAML	DYINEN	RYDHI	155	
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	VARFRVNAFNQNRGAG	AVFRTIP	SKVLT	MEDLGLGQIFK	DICDYPRG	IVLV	TGPT	TGSGKSTT	LAAML	DYINEN	RYDHI	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 311591 D0899 RS03870 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 1203 PSJM300 01605 AFN76401.1
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NTDB id 1020 ACIAD RS04210 WP 011182164.1
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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 311591 D0899 RS03870 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	TLDQHLTELNVNKNIIISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELNVNKNIIISKHTAHEAALNK.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 311591 D0899 RS03870 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