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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMMDARQA	EFKQ	TREANFAVVRD	75							
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGVMMNEQQR	REFTENHECNFAISAR	76							
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTKLDGDM	IAQLIDSITTQKQR	QEFIE	THECNFAILNR	76							
NTDB id 359219 E3384 RS03765 WP 001055642.1	MNMEEIVTL	SVKHNVSDHLHCNAWPARWRKQGRMEN...APFTAP	DVDRLLDLWLND	AQQYQWRTHGQLDFAVSL	73								
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILAAGL	PPQFKLSGDYDAQGFEL	SASDTRKLMYSMMNERQQRIF	EEREKRELD	DFSALG	80							
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLEVD	DFSFLP	76							
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGD	MRRINLPEMSAE	EVGNMVT	VMNDHQRKIYQQNLEVD	DFSFLP	76							
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGVPPMVRID	GEVRKLGVP	AFTHSDVHRLIFEIM	NDAAQRSEYE	EYEEKLEVD	DFSFLP	76						
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAGVPPMVRID	GEVRKLGVP	AFTHSDVHRLIFEIM	NDAAQRSEYE	EYEEKLEVD	DFSFLP	76						
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFAVKNKSSDLHISAGMPPMIRVDG	DLRKINLPPLEHKDV	IKIYD	IMNDRQRKEYEEFF	FETDFSFEIA	76							
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFAVKNKSSDLHISAGMPPMIRVDG	DLRKINLPPLEHKDV	IKIYD	IMNDRQRKEYEEFF	FETDFSFEIA	76							
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSGLPPMIRVDG	DVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEEF	FLETDFSFEVP	76							
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSSGLPPMIRVDG	DVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEEF	FLETDFSFEVP	76							
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAGIPPMIRVDG	EVRRINLPAMD	HS	EVHNL	IYD	IMNDKQR	RDYEEKLETDFSFEVP	76					
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLPAL	EHKDVHRLVYD	IMNDKQR	RDYEEKLETDFSFEVP	76							
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLPAL	EHKDVHRLVYD	IMNDKQR	RDYEEKLETDFSFEVP	76							
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNASDLHLSAGMPPMIRVDG	EVRRINLPAL	EHKDVHRLVYD	IMNDKQR	RDYEEKLETDFSFEVP	76							
consensus	***	*****	*!*****	*****	*****	*	*	*	*	*****	*****	*	*!*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	..S	GFRFRVSAFFQ	RELPGAVIRRIET	RIPTFEELK	PEVLQNL	IAIAKRG	LVLVVGAT	TGSGKSTT	MAAMTGYRNQ	HTGHI	153		
NTDB id 1203 PSJM300 01605 AFN76401.1	G.	IGRFRVSAFYQ	RNLAGMVLRR	RIETNIPTIED	LKLPDVL	KKLAL	TKRGLV	LVFGAT	TG	TGKSTSLAAM	IGYRNKNSSGHI	155	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNER	FRVSAFYQ	QRDMPGMVIRRIET	KIPSPDDL	HLPPI	LKELAM	SKRGII	IFSGAT	TG	TGKSTSLASMI	QHRNQHSGKHI	156	
NTDB id 359219 E3384 RS03765 WP 001055642.1	G.	TRRLRASAF	THQQGTSLAL	RLPERCPDIAET	IQTPPIVP	PALLAS	ENGLIL	VTGAT	GC	GKSTTLAAMV	GHLNQHADKHI	152	
NTDB id 1307 DR RS10055 WP 010888596.1	D.	KARFRVNAFM	QRGNVGGVMRL	IPITTVRTIA	EMGLPQT	VIDIAN	APRGLV	LVLTGPT	TGSGKSTT	LAASMI	DHINTTKLHI	159	
NTDB id 1086 NMV RS00245 WP 002218487.1	N.	VARFRVNAFN	IGRGPAAV	FRTIPSTVLS	LEELKAPS	IFQKIA	ESPRGM	VLTGPT	TGSGKSTT	LAAMIN	YINETQPAHI	155	
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.	VARFRVNAFN	TGRGPA	AVFRTIPSTVLS	LEELKAPS	IFQKIA	ESPRGM	VLTGPT	TGSGKSTT	LAAMIN	YINETQPAHI	155	
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.	VGRFRVNAFHQ	ARGCSAV	FRTIPTV	IPITLEQL	DAPEIF	SKIAN	YEKGLV	LVLTGPT	TGSGKSTT	LAAMVNYVNAH	HNKHI	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.	VGRFRVNAFHQ	ARGCSAV	FRTIPTV	IPITLEQL	DAPEIF	SKIAN	YEKGLV	LVLTGPT	TGSGKSTT	LAAMVNYVNAH	HNKHI	155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.	LARFRVNAFNQ	SRGAAV	FRTIPSEIL	SMEDLGLP	PIFKEMAS	FSRGLV	LVLTGPT	TGSGKSTT	LAAVIDY	INSSRYEHI	155	
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.	LARFRVNAFNQ	SRGAAV	FRTIPSEIL	SMEDLGLP	PIFKEMAS	FSRGLV	LVLTGPT	TGSGKSTT	LAAVIDY	INSSRYEHI	155	
NTDB id 1202 PSJM300 01600 AFN76400.1	G.	VARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEDLGMGEV	FRKITD	VPRGLV	LVLTGPT	TGSGKSTT	LAAML	DYLNNTKYHHI	155	
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.	VARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEDLGMGEV	FRKITD	VPRGLV	LVLTGPT	TGSGKSTT	LAAML	DYLNNTKYHHI	155	
NTDB id 1020 ACIAD RS04210 WP 011182164.1	N.	LARFRVNVFNQ	NRGAGAV	FRTIPSKVLT	LEELGLG	KIFRD	ICDYPR	GLVLTGPT	TGSGKSTT	LAAML	DYINNHR	YDHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.	VARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEDLGLG	QIFKD	ICDYPR	GLVLTGPT	TGSGKSTT	LAAML	DYINENR	YDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.	VARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEDLGLG	QIFKD	ICDYPR	GLVLTGPT	TGSGKSTT	LAAML	DYINENR	YDHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.	VARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEDLGLG	QIFKD	ICDYPR	GLVLTGPT	TGSGKSTT	LAAML	DYINENR	YDHI	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 359219 E3384 RS03765 WP 001055642.1
NTDB id 1307 DR RS10055 WP 01088596.1
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
NTDB id 1019 ACIAD RS04205 WP 004922051.1
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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
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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	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLG.S.ETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRRERMSEMER.....KMTFDGQRRNLK....	383
NTDB id 359219 E3384 RS03765 WP 001055642.1	TFAQSAQWRQAQGRLL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGLIAPEVARRRAQNSESMF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGLIAPEAARRRAQNSESMF.....	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 359219 E3384 RS03765 WP 001055642.1	.....	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