

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHHAMDDARQAEEFKQ	TREANFAVVRD	75														
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGVMMNEQQRREF	TENHECNFAISAR	76													
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LDGDMIAQLIDSITTQKQRQEF	ETHECNFAILNR	76														
NTDB id 359081 E3398 RS03765 WP 001055642.1	MNMEEIVTL	SVKHNVSDLHLCNAWPARWRKQGRMEN...APFTAP	DVDRLLLDWLND	AQQYQWRTHGQLDFAVSL	73														
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDI	ILRLAADKGASDITILAAAGLP	PQFKLSGDYDAQGFEL	SASDTRKLMYSMMNERQQRIFE	EKKRELD	DFS	FAL	G	80										
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNM	VTSMNDHQRKIYQQN	LEVDFS	FELP		76										
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MRRINLPEMSAE	EVGNM	VTSMNDHQRKIYQQN	LEVDFS	FELP		76										
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVDFS	FELP			76										
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDGEVRKLGVP	AFTHSDVHRL	LIFEIMNDAQRSEYEEK	LEVDFS	FELP			76										
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDV	IKIYD	IMNDRQRKE	YEEFF	FET	D	F	S	F	E	I	A	76				
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGLRKNINLP	LEHKDV	IKIYD	IMNDRQRKE	YEEFF	FET	D	F	S	F	E	I	A	76				
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSSG	LPPMIRVDGDVRRINLP	PAMDHKQV	HALIYD	IMNDKQRKD	FEEF	F	L	E	T	D	F	S	F	E	V	P	76	
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAG	LPPMIRVDGDVRRINLP	P	LEHKQV	HALIYD	IMNDKQRKD	FEEF	F	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDGEVRRINLP	PAMDHSEVHN	LIYD	IMNDKQR	RDYEEK	L	E	T	D	F	S	F	E	V	P	76		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDV	HRLVYD	IMNDKQR	RDYEEK	L	E	T	D	F	S	F	E	V	P	76		
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDV	HRLVYD	IMNDKQR	RDYEEK	L	E	T	D	F	S	F	E	V	P	76		
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	PALEHKDV	HRLVYD	IMNDKQR	RDYEEK	L	E	T	D	F	S	F	E	V	P	76		
consensus	***	*****	*!*****	*****	*****	*	*	*	*	*****	*****	*	*!*****						

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	N	S	G	R	F	R	V	S	A	F	F	Q	R	E	L	P	C	A	V	I	R	R	E	T	R	I	P	T	F	E	E	L	K	L	P	E	V	L	Q	N	L	A	I	A	K	R	G	L	V	L	V	G	A	T	G	S	G	K	S	T	T	A	A	M	T	G	Y	R	N	Q	H	R	T	G	H	I	153																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 1203 PSJM300 01605 AFN76401.1	G	I	G	R	F	R	V	S	A	F	Y	Q	R	N	L	A	G	M	V	L	R	R	I	E	T	N	I	P	T	I	E	D	L	K	L	P	D	V	L	K	K	L	A	L	T	K	R	G	L	V	L	F	V	G	A	T	G	T	G	K	S	T	S	L	A	A	M	I	G	Y	R	N	K	N	S	S	G	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	E	K	N	E	R	F	R	V	S	A	F	Q	Q	R	D	M	P	G	M	V	I	R	R	I	E	T	K	I	P	S	P	D	D	L	H	L	P	P	I	L	K	E	L	A	M	S	K	R	G	I	I	F	S	G	A	T	G	T	G	K	S	T	S	L	A	S	M	I	Q	H	R	N	Q	H	S	K	G	H	I	156																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 359081 E3398 RS03765 WP 001055642.1	G	T	R	R	L	R	A	S	A	F	T	H	Q	Q	G	T	S	L	A	L	R	L	L	P	E	R	C	P	D	I	A	E	I	Q	T	P	P	I	V	P	A	L	L	A	S	E	N	G	L	I	V	T	G	A	T	G	C	G	K	S	T	T	L	A	A	M	V	G	H	L	N	Q	H	A	D	K	H	I	152																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1307 DR RS10055 WP 010888596.1	D	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	G	G	V	M	R	L	I	P	T	T	V	R	T	I	A	E	M	G	L	P	Q	T	V	I	D	I	A	N	A	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	M	I	D	H	I	N	T	T	K	L	H	I	159																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB id 1086 NMV RS00245 WP 002218487.1	N	V	A	R	F	R	V	N	A	F	N	I	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	T	Q	P	A	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1116 NGFG RS10615 WP 003690200.1	N	V	A	R	F	R	V	N	A	F	N	T	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	T	Q	P	A	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N	V	G	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	T	I	P	T	V	I	P	T	L	E	Q	L	D	A	P	E	I	F	S	K	I	A	N	Y	E	K	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	V	N	Y	V	N	A	H	N	K	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N	V	G	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	T	I	P	T	V	I	P	T	L	E	Q	L	D	A	P	E	I	F	S	K	I	A	N	Y	E	K	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	V	N	Y	V	N	A	H	N	K	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S	S	R	Y	E	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1259 GC085 RS10305 WP 010947729.1	N	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S	S	R	Y	E	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1202 PSJM300 01600 AFN76400.1	G	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	D	L	G	M	G	E	V	F	R	K	I	T	D	V	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	D	Y	L	N	N	T	K	Y	H	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	E	L	G	M	G	E	V	F	R	K	R	V	S	D	V	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	D	Y	L	N	N	T	K	Y	H	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N	L	A	R	F	R	V	N	V	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	Q	V	L	T	L	E	E	L	G	L	G	K	I	F	R	D	I	C	D	Y	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	D	Y	I	N	N	H	R	Y	D	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	D	L	G	L	G	Q	I	F	K	D	I	C	D	Y	P	R	G	I	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	D	Y	I	N	E	N	R	Y	D	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1040 HON27 RS13360 WP 000355489.1	N	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	D	L	G	L	G	Q	I	F	K	D	I	C	D	Y	P	R	G	I	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	D	Y	I	N	E	N	R	Y	D	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	D	L	G	L	G	Q	I	F	K	D	I	C	D	Y	P	R	G	I	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	D	Y	I	N	E	N	R	Y	D	H	I	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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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 359081 E3398 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 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGs.ETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRRERMSEMER.....KMTFDGQRRNLK....	383
NTDB id 359081 E3398 RS03765 WP 001055642.1	TFAQSAQWRQAQGRL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGGLIAPEAAARRRAQNSESMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	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	TLDSCCLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRENAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 01182164.1	TLDQSLKQLLAKGIINLPTARAVAKSP.ESF.....	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	TLDQSLKGLVSRGVISPQTARTAAKQP.ESFL.....	345
consensus	!*** * ** ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	APATPAAPAAAGRSEPCGRACCFGRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 359081 E3398 RS03765 WP 001055642.1	.....	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 01182164.1	.....	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