

```
NTDB id 1323 RA0C RS07335 WP 004916218.1
NTDB id 278487 AM480 RS07440 WP 000010455.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
NTDB id 1349 HI 1117 AAC22771.1
consensus
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NTDB id 1323 RAOC RS07335 WP 004916218.1	MRQPLEDREVTISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	397
NTDB id 278487 AM480 RS07440 WP 000010455.1	LRQPLESKEIISRAARQITYPANFQLIAAMNPPCGYAFNQDSRCQCSPESEIKRYQNRISGPLLDRIDLHIDVPPLKAQ	391
NTDB id 1271 LPP RS03220 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPARFQLVGALNPSPGTGYEGSQAR..ANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPARFQIVGALNPSPGTGYEGNQAR..TNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIISRANAKVQFPACFQLIAAMNPSPGTGHYQGTNHR..TSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG	395
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIISRANAKIQFPARFQLVAAAMNPSPGTGHYTGTHNR..TSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG	396
consensus	*! !!!!!*****!!!! * * *!!!!*!!!!*****!!!!*!! * * * ** * !!* ****!!*!! !* ***** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	QLSDK..RKGESSEITRQVRLKAREIQQERYQDLAISYNAQMGPKIEIHFCELDEVSLLLTKNAMEKLNLSARAYDRILK	475
NTDB id 278487 AM480 RS07440 WP 000010455.1	ELQDPTP..AEDSTTVRQRVIIYAYEQQMQRQD...CLNQALSPKQLEQHAVLDSTSQRMIEMAQQRILNLSARAYHRVLR	465
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKMHEIQMARQD...SLNANLNSKTCCEMVCELGSEEQFLFLREVMSKCLKLSARGYHRLLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKMHEIQMARQD...SLNANLNSKTCCEMVCELGSEEQFLFLREVMSKCLKLSARGYHRLLK	470
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQRVVVARERMLARSG...KVNALLQSREIEQYCPLLKADAEFLIESALHRLGLSIRAYHRIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERNVQARDCMLARSG...KVNALLGSREIEAFCPPLQKSDAEFLLENALHRLGLSIRAYHRIK	467
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRG...KINAQLTTKEIEQDCKLTDRLDALFLENALTKLGLSVRAYHRILK	471
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAG...KINAYLNSKEIERDCKLNDKDADFLEKALNKLGLSVRAYHRILK	471
consensus	! **** * ** *! ***** ! *! * * *****! * ! * **** ** *! !! !!!!!***	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 278487 AM480 RS07440 WP 000010455.1	VARTIADLAQSEVIQSPHLTEALSIRGNHS.....	495
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADYNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADYNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1153 A1552VC RS00115 WP 000521788.1	VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV	507
NTDB id 1397 DSB67 RS15690 WP 005535577.1	VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV	507
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
NTDB id 1349 HI 1117 AAC22771.1	VSRTIADLQGEQQIFQPHLAEALGYRAMVRLQLKLSNM..	509
consensus	!*****! ** !****! !*** ** *	

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved