

```
NTDB id 1323 RAOC RS07335 WP 004916218.1
NTDB id 277753 AM467 RS01325 WP 000010467.1
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 277753 AM467 RS01325 WP 000010467.1	LRQPLESKEIISRAARQITYPANFQLIAAMNPPCGYAFNQDSRCQCSPEISIKRYQNRISGPLLDRIDLHIDVPPPLKAQ	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	LRQPLESGEIISIRANAKVQFPACFQLIAAMNPSPGTGHYQGTNHR..TSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQG	395
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIISIRANAKIQFPARFQLVAAAMNPSPGTGHYTGTHNR..TSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQG	396
consensus	*! !!!!!*****!!!! * * *!!!!*!!!!*****!!!!*! * * * ** * !!* *****!!!! !* ***** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	QLSDK..RKGESSEITRQVRLKAREIQQERYQDLAISYNAQMGPKIEIHFCELDEVSLLLTKNAMEKLNLSARAYDRILK	475
NTDB id 277753 AM467 RS01325 WP 000010467.1	ELQDPTP..AEDSTTVRQRVIIYAYEQQMQRQD...CLNQALSPKQLEQHAVLDSTSQRMIEMAQQRILNLSARAYHRVLR	465
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKMHEIQMARQD...SLNANLNSKTCCEMVCELGSEEQFLREVMSKCLKLSARGYHRLLK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKMHEIQMARQD...SLNANLNSKTCCEMVCELGSEEQFLREVMSKCLKLSARGYHRLLK	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	VSRTIADLERETNIQSHHIAEATQYRSIDRDFWKV.....	510
NTDB id 277753 AM467 RS01325 WP 000010467.1	VARTIADLAQSEVIQSPHLTEALSIRGNHS.....	495
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALSYPKQNLHLPK.....	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	VSRTIADLQGEQIQIFQPHLAEALGYRAMVRLQLKLSNM..	509
consensus	!*****! ** !****!* !*** ** *	

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