

NTDB id	1323 RAOC RS07335 WP 004916218.1	.MLVKKVYGS A IHHGVS AQTTITTEVNVDQGV.GYHLVLGLPDNAIKESSHRISAAIKNVGVKLPCKKKITINMAPADLRKEGSA	78
NTDB id	1271 LPP RS03220 WP 011213198.1	MSLAFTKT RSTIGTIVAQPVSVVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248 GC085 RS03150 WP 011213198.1	MSLAFTTKTR TSTIGTIVAQPVSVVEVHLSNGLPSEFTMVGLAETAVKESKDRVRSAINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1018218 ABOU07 RS24835 WP 103433216.1	MSLSIVHTRAALGVNAPPTIVEVHLSKGPLCLTMVGLPETVKEARDVRSAINSGYEYPAKKITINLAPADLPKEGGGR	80
NTDB id	1153 A1552VC RS00115 WP 000521788.1	MGLAIIH SRSASIGVQAAPPVTVEVHLSNGMPGFTLVGLPETTVKESRDRVRSAINSRFEPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1397 DSB67 RS15690 WP 005535577.1	MGLAIIH SRSASVGVQAPSVEVHLSNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPARKITVNLAPADLPKEGGGR	80
NTDB id	1349 HI 1117 AAC22771.1	MSLAIVYSRASMGVQA PLVLTIEVHLSNGKPGETLVGLPEKTVKEAQDRVRSAIMNAAFQFKYPAKRITVNLAPADLPKEGGGR	80
NTDB id	1387 A4U84 RS06900 WP 020457569.1	MSLAIIVSRASIGVEA PLVLTIEVHLSGSPGLTLVLGLPEKS VKEAQDRVRSAIMNANFDYPARRITINLAPADLPKEGGGR	80
consensus		* * ! * * * * * * * * * * * * * * * * ! * * * * * * * * * * * * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIAPEIERVYLIMGELSLDGGGLQPIKGVLPATIRAREEGFGKITLTPKQNTREAAIVNDLEVVGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRVSAITIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRVSAITIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1018218	AOU07 RS24835 WP 103433216.1	YDLPIAIALGAASEQTANKLDEVELVGELALTGALRGVPGCATSSATEAIKS.GRKTIIVAKDNEDEVGLINGEGCLIAADH	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPALGILAASDIARNKLSEVEFIGELALSGETIRGVKGVLPAALAANQV.ERCLLVPHSNGDQAALVGVERHKSAQS	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPALGILAASEQIATDKLKNYEFVGELALSGGLRITVKGVLPALAANKK.QRHLLVPHANGDQAALVGKEQHKSACS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPPIAIGILAASGDLDASHLKQFEFVAELALTGQLRGVHGVPAILAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPPIAIGILAASQQIDSKHLKRIFELLGELSITGHLRGVHGAPAVLAASKA.KREIIVPQQNANEASLVSNLTQTYCAST	159
consensus			*!!*!!**!!!!!!*!* * *!***!!*!!*!***** **!* * * * * !!* * * * *	

[illegible]

	NTDB	id	1323	RAOC RS07335 WP 004916218.1	PPLTLKEAEETTKTHSVAGKMGAETSMTIRPFRSPHHTISDVVALVGGGSYPQPGGEISLAHNGLVLFLDEMPFEKRTIVLEV	318	
	NTDB	id	1271	LPP RS03220 WP 011213198.1	PELSETGATECAAINSTRIGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPKPGGEISLAHHGVLFDELPEFNRRQVLET	314	
	NTDB	id	1248	GCOB5 RS03150 WP 011213198.1	PELSEGTATACAAINSRIGKLPDF.REWRLPPPFRAPPHHTASPVALVGGGNPKPGGEISLAHHGVLFDELPEFNRRQVLET	314	
	NTDB	id	1018218	ABOUO7 RS24835 WP 103433216.1	PDLISNEEAESAAILSLVAESVQ.KQRWRQPFRSPPHSASTAMVGCGAIPGPGEISLAHNGLVLFLDELPEFERRTLDA	313	
	NTDB	id	1153	A1552VC RS00115 WP 000521788.1	PEMSDDEEAMETASIASLTQQEINQH.NHWKLRPFRAPHHSSMAALVGGGTTPRGGEISLAHNGLLVFLDEMPEFERNKVLDLS	314	
	NTDB	id	1397	DSB67 RS15690 WP 005535577.1	PEMSDDEEAMETASVASLTQSSEINE.HNWKTTRPFARPHHSSMAALVGGGSVPVRPGGEISLAHNGLLVFLDEMPEFDREKNVLDLS	314	
	NTDB	id	1349	HI 1117 AAC22771.1	PEMTDLTEATETASVTSLVNELNF.HNWKTRPFRAPHHSSMPPALVGGGTTPKPGEISLATNGVLFLDELPEFERKNVLDLS	318	
	NTDB	id	1387	A4U84 RS06900 WP 020457569.1	PEMEDDEAIETASVTSLVNELNF.QNVKKRPFRSPPHSASMVALVGGGSIPKPGEISLAHNGLVLFLDELPEFERKNVLDLS	317	
	consensus					!!***!*!******!!!*****!!!!!!*!!!!!!!!!!!!!!!!!!!!!!*	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGSONRITPQRIIRYLNRLSGPIIDREFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVETISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLI AAMNPPCGQWGN SQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1018218 ABOU07 RS24835 WP 103433216.1	LREPLESGHICISRAAAQIEFPAKFQLI AAMNPPCGQWGN SQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIVISRAQKTRFPAFQLVGALNPSPGTGYEGSSQA..RANPQSILRYLSRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPLESGEIIISRAQKTRFPAFQIVGALNPSPGTGYEGNQA..RTNPQAAILRYLGRLSGPLLDRFDMSTIEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LRQPLESGEIIISRAANAKIQFPAFQLV AAMNPSPGTGHYTGT HN..RTSPQQIMRYLNRLSGPF LDRFDLSIEVPLLPQG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRAANAKVFFPAFQLI AAMNPSPGTGHYQGT HN..RTSPQQIMRYLNRLSGPF LDRFDLSIEVPLLPQG	395
consensus	*!***** *!!* *** *!!!!*****!!*!!* * ** * ** *!!!! *!!!!*!!!!*!!!!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	Q L S D . . K R K G E S S E I R Q R V L K A R E I Q Q E R Y Q D L A I S Y N A Q M G P K E I E H F C E L D E V S L L L I K N A M E K L N L S A R A Y D R I L K	475
NTDB id 1271 LPP RS03220 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLIK	470
NTDB id 1018218 ABOU07 RS24835 WP 103433216.1	ILSKT.VVPGENSTTVKQRVMAARERQFKRQNK...LNAWLDNPEIRQFCKLESEDAQWLEETLIHLGLSTRAWQRLIK	466
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIK	467
NTDB id 1397 DSB67 RS15690 WP 005535577.1	TLSEG.GDRGEPTAIVKERVNQARDCMLARSGK...VNALLQSREIEAFCP LQKSDAEFLENALHRLGLSIRAYHRIIK	467
NTDB id 1349 HI 1117 AAC22771.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLITKEIEQDCKLITDRDALFLENALT KLGLSVRAYHRILK	471
consensus	! *** * ** *! ***** ! * *!!* * ***** ! ! ** *** ** *!!!!*!!!!*!!!!	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSIDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALS YKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADMNSSKKVLLNHLQQALS YKQNLHLPK.....	503
NTDB id 1018218 ABOU07 RS24835 WP 103433216.1	VARTIADIDQSDIITRQHLQEAVSYSAIDRLLIH LQKLLT	506
NTDB id 1153 A1552VC RS00115 WP 000521788.1	VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV	507
NTDB id 1397 DSB67 RS15690 WP 005535577.1	VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV	507
NTDB id 1349 HI 1117 AAC22771.1	VSRTIADLQGEQ QIFQPHLAEALGYRAMVRL LKLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****! ** !****! * !***** *	

- X non conserved
- X similar
- X ≥50% conserved