

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVKKVYGS A IHHGVS A QTTITTEVNVDQGV.GYHLVLGLPDNATIKESSHRISAAIKNVGYKLPGKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSEFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSEFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1008134	ABM159 RS21750 WP	032660759.1	MSLSVVYTRAAGVGKAPLLISEVHLSNGLPGLTMVGLPETVKEARDVRSAIINSGYAFPAKKITINLAPADLPKEGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVQA P S V SVSEVHLSINGMPGFTTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQA P PVTV E VHLSINGMPGFTTLVGLPETTVKESKDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQA P PLVTIEVHLSNGKP G F T TLVGLPEKT V KEAQDVRVSALMNARFKYPAKRITVNLAPADLPKEGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIIYSRASIGVEAPLV T IEVHLSGGSPGLTMLVGLPEKS V KEAQDVRVSALMNANFDYPARRITINLAPADLPKEGGR	80
consensus				*?***?****?*!*****!!**!*?*****!!!!*****!!*?!*****!*****!*****!*****!*****!	

NTDB id 1323	RAOC RS07335 WP 004916218.1	YDL	ST	AI	G	I	L	A	A	S	G	Q	I	A	P	E	T	E	R	Y	L	I	M	G	E	L	S	D	G	G	L	Q	P	I	K	G	V	L	P	I	A	T	R	A	R	E	E	G	F	K	G	I	I	L	P	K	Q	N	T	R	E	A	A	I	V	N	D	L	E	V	Y	G	V	E	N	158					
NTDB id 1271	LPP RS03220 WP 011213198.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	.	N	Q	H	L	I	.	I	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	159
NTDB id 1248	GC085 RS03150 WP 011213198.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	P	L	T	N	L	A	N	H	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	S	A	I	P	A	V	L	A	A	H	K	D	.	N	Q	H	L	I	.	I	A	N	A	N	A	A	E	A	S	L	T	G	H	Q	K	V	F	T	A	N	159
NTDB id 1008134	ABM159 RS21750 WP 032660759.1	Y	D	L	P	I	A	T	A	L	A	A	S	E	Q	I	N	T	P	G	L	S	S	C	E	F	V	G	E	L	A	L	T	C	A	L	R	G	V	P	C	A	T	S	E	A	I	H	A	.	N	R	Q	I	I	V	A	N	E	N	A	S	E	V	S	L	I	A	E	K	G	C	L	V	A	G	H	159			
NTDB id 1397	DSB67 RS15690 WP 005535577.1	F	D	L	P	I	A	L	G	I	L	A	A	S	E	Q	I	A	T	D	K	L	K	N	Y	E	F	V	G	E	L	A	L	S	G	G	L	R	T	V	K	G	V	L	P	A	A	L	A	N	K	K	.	Q	R	H	L	V	V	P	H	A	N	G	D	Q	A	A	L	V	G	K	E	Q	H	K	S	A	Q	S	159
NTDB id 1153	A1552VC RS00115 WP 000521788.1	F	D	L	P	I	A	L	G	I	L	A	A	S	D	Q	I	A	R	N	K	L	E	S	Y	E	F	I	G	E	L	A	L	S	G	E	L	R	G	V	K	G	V	L	P	A	A	L	A	N	Q	V	.	E	R	C	L	V	V	P	H	S	N	G	D	Q	A	A	L	V	G	V	E	R	H	K	S	A	Q	S	159
NTDB id 1349	HI 1117 AAC22771.1	F	D	L	P	I	A	T	G	I	L	A	A	S	D	Q	I	D	A	S	H	L	K	Q	F	E	F	V	A	E	L	A	L	T	G	Q	L	R	G	V	H	G	V	I	P	A	L	A	A	K	S	.	K	R	E	L	I	I	A	K	Q	N	A	N	E	A	S	L	V	S	D	Q	N	T	Y	F	A	Q	T	159	
NTDB id 1387	A4U84 RS06900 WP 020457569.1	F	D	L	P	I	A	T	G	I	L	A	A	S	Q	I	D	S	D	K	L	K	R	I	E	L	L	G	E	L	S	L	T	G	H	L	R	G	V	H	G	A	I	P	A	V	L	A	A	S	K	A	.	K	R	E	I	V	P</																						

[illegible]

NTDB id	1323	RAOC RS07335 WP 004916218.1	PPLTLKEAEETTKTHSVAGKMGAETSLMTIRPFRSPHHTISDVVALVGGGSYPQPGGEISLAHNGLVFLDLMPEFKRTIVLEV	318
NTDB id	1271	LPP RS03220 WP 011213198.1	PELSETQAIECAAINSRIGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPKPGGEISLAHNGVLFLDELPEFNRQVLET	314
NTDB id	1248	GCO85 RS03150 WP 011213198.1	PELSETQAIECAAINSRIGKLPDF.REWRILPPFRAPHHTASPVVALVGGGNPKPGGEISLAHNGVLFLDELPEFNRQVLET	314
NTDB id	1008134	ABM159 RS21750 WP 032660759.1	PPLNNHEAEEAAIFLSLVSTSLHKQWRRRPFRSPHHSASTAMVGGSIPKPGEISLAHNGLIFLDELPEFERVRDLA	313
NTDB id	1397	DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEINE.HNWKTTRPFRAPHHSSMAALVGGGSVPRLPGEISLAHNGLIFLDEMPEFDKRVLD	314
NTDB id	1153	A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQQEINQ.HNWKLRPFRAPHHSSMAALVGGGTTPRPGGEISLAHNGLIFLDEMPEFERKVLD	314
NTDB id	1349	HI 1117 AAC22771.1	PEMTDLEATETASVTSLVQNELNF.HNWKQRPFPRAPHHSASMPALVGGGTIPKPGEISLATNGVLFLDELPEFERKVLD	318
NTDB id	1387	A4U84 RS06900 WP 020457569.1	PEMEDEAETASVTSLVQNELNF.QNVKKRPFRSPHHSASMVVALVGGGSIPKPGEISLAHNGLVFLDELPEFERKVLD	317
consensus			!**** *!* ** * ! *	**** *!* ** * ! **** *! !!!!!!! *! !*

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGQONRITPQRIIRYLRLSGPFLDRFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVITISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNLKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1008134 ABM159 RS21750 WP 032660759.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPESGEIHLSTRAKISYPAQFQLVAAMNPSPTCGHYQGNHN..RCTPEQTLRYLSKLSGPFLLDRFDLSLEIPLPPPG	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIIISRAQKTRFPAQFQIVGALNPSPTCGYEGNQA..RTNPQATILRYLGRLSGPPLDRFDMSLEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LREPLESGEIVISRAQKTRFPAQFQIVGALNPSPTCGYEGSSQA..RANPQSILRYLSRLSGPPLDRFDMSIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRANAKIQFPAQFQLVAAMNPSPTCGHYTGTN..RTSPQQIMRYLNLRLSGPFLDRFDLSIEVPLLPQG	395
consensus	*!*!*!*!*!* *!*! * * * * *!*!*!*!*!*!*!*!* * * * * * * * * * * * * * * * * *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LQNTGDRGESSAAYRERVKAREIQARQCKVALLSKEIECQLDALEFENALKGLSARAYHRLK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	QLSD..KRKGESSEIRQVRLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLIKNAMEKLNLSARAYDRILK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	470
NTDB id 1008134 ABM159 RS21750 WP 032660759.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKIKLSARGYHRLK	466
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLRQT.GIKGESSATVRERVIAAQAQYVVRQNR...LNARLDNSGITRQFCSLNAEDAGWLEETLTFGLSTRAWQRLK	467
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLSEG.GDRGEPTAIVKERVNQARDCLARSGL...VNALLGSREIEAFQPLQKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	TLANG.GDRGESTAAVRQRVVVARERMLARSGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAQLITKEIEQDCKLITDRDALFLENALTKLGLSVRAYHRILK	471
consensus	! *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSQKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSQKQNLHLPK.....	503
NTDB id 1008134 ABM159 RS21750 WP 032660759.1	VARTVADVEGCPGTEIRRHLEALSRYATDRLLLHLQKMLA	506
NTDB id 1397 DSB67 RS15690 WP 005535577.1	VARTIADLEGSPQIERTHLAEALGYRAMDRLLKQLTAQAV	507
NTDB id 1153 A1552VC RS00115 WP 000521788.1	VARTIADLQGEAQIARPHLAEALGYRAMDRLLKQLSAQNV	507
NTDB id 1349 HI 1117 AAC22771.1	VSRTIADLQGEQQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	! *	

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