

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVKKVYGS A IHHGVS A QTTITTEVNVDQGV.GYHLVLGLPDNAIK E SSHRISAAKKNVG V KLPCKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1043946	ACEPWK RS26575 WP	002883134.1	MSLAITYRRAALGIEAPLTITEVHLISNGLPCLTMVGLPETVKEARDVRVSALINSGYAFPAKKITINLAPADLPKEGGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVQA P SVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQA P PLVTITEVHLSNGMPGFTLVGLPETTVKESKDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAITYSRASMVGAPLVTITEVHLSNGKP G F T LVGLPEKTVKEAQDVRVSALMN A NFYPAKRITVNLAPADLPKEGGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAITYSRASIGVEAPLVTITEVHLSGSPCLTMLVGLPEKS V KEAQDVRVSALMNAFDYPARRITINLAPADLPKEGGGR	80
consensus				* * ! * * * * ! * ! * * * * ! * * * * ! * * * * ! * * * * ! * ! * * ! * * * ! * * ! * * ! * * ! * *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIIAPEIERVYLIMGELSLDGGGLQPIKGVLPATIRAREEGFGKITLPKQNTREAAIVNDLEVYGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSSELRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSSELRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1043946	ACEPWK RS26575 WP 002883134.1	YDLPIALAILVASEQILNTRTNLNQYEFVGELALTGGLRGVPGAIPSAEAIKA.GRRILVVSSDNAAEVLIGSGDCLVADH	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRITVKGVLPAAALAANKK.QRHLLVPHANGDQAALVGKEQHKSAQS	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDLPIALGILAASDQIARNKLESYEFIGELALTSELRGVKGVLPAALAAANQV.ERCLVPHNSCDQAALVGVERHKSAAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPIALAAQKS.KRELTIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDLPIAIGILAASQQIDSKLKRIFELLGELSITGHLRGVHGAIIPAVLAASKA.KREITIVPQQNANEASLVSNLTQTYCAST	159
consensus			*!!*!!**!*!?!*!* *?***?*!!*?!*??*?*!!*? *?***?!!*? *?*	

NTDB id 1323	RAOC RS07335 WP 004916218.1	I	K	E	V	I	D	F	F	N	E	C	P	E	P	T	K	V	N	T	R	E	E	F	H	K	R	V	N	L	F	P	F	D	F	S	E	V	K	G	Q	E	T	A	K	R	A	M	E	V	A	A	A	G	G	H	N	I	L	I	G	P	P	G	S	G	K	T	M	L	A	K	R	I	P	S	I	L	238	
NTDB id 1271	LPP RS03220 WP 011213198.1	L	R	E	V	C	D	L	C	Q	G	T	S	L	Q	S	L	P	P	K	P	D	L	...	L	L	N	N	Y	E	L	D	W	S	D	I	K	G	Q	Q	H	A	K	N	A	M	V	I	A	A	C	G	G	H	S	I	L	L	S	C	A	P	G	S	G	K	T	M	A	K	R	F	S	T	L	L	235			
NTDB id 1248	GC085 RS03150 WP 011213198.1	L	R	E	V	C	D	L	C	Q	G	T	S	L	Q	S	L	P	P	K	P	D	L	...	L	L	N	N	Y	E	L	D	W	S	D	I	K	G	Q	Q	H	A	K	N	A	M	V	I	A	A	C	G	G	H	S	I	L	L	S	C	A	P	G	S	G	K	T	M	A	K	R	F	S	T	L	L	235			
NTDB id 1043946	ACEPWK RS26575 WP 002883134.1	L	Q	E	V	C	A	E	L	C	G	Q	H	L	S	P	P	L	A	E	A	...	P	A	R	D	E	R	Y	E	D	L	L	V	I	G	Q	Q	Q	K	R	A	L	E	I	V	A	A	G	G	H	N	L	I	L	G	P	P	G	T	G	K	T	M	L	A	S	R	L	P	G	L	L	234						
NTDB id 1397	DSB67 RS15690 WP 005535577.1	L	L	E	V	C	A	E	L	C	G	Q	H	L	N	L	Y	Q	T	P	K	K	...	E	L	K	A	H	G	R	D	L	Q	D	I	I	G	Q	Q	Q	K	R	A	L	E	I	A	A	A	G	N	H	N	L	L	F	L	G	P	P	G	T	G	K	T	M	L	A	S	R	L	C	D	L	L	235				
NTDB id 1153	A1552VC RS00115 WP 000521788.1	L	L	E	V	C	A	D	L	C	G	Q	T	L	S	L	F	Q	S	S	P	S	V	...	Q	Q	V	S	Q	T	R	D	L	Q	D	I	I	G	Q	Q	Q	K	R	A	L	E	I	A	A	A	G	N	H	N	L	L	F	L	G	P	P	G	T	G	K	T	M	L	A	S	R	L	C	D	L	L	235			
NTDB id 1349	HI 1117 AAC22771.1	L	L	D	V	V	Q	F	L	N	G	Q	E	K	L	P	L	A	T	E	I	V	K	E	S	A	V	N	F	S	G	K	N	T	L	D	L	T	D	I	I	G	Q	Q	H	A	K	R	A	L	T	I	A	A	A	Q	H	N	L	L	F	L	G	P	P	G	T	G	K	T	M	L	A	S	R	L	T	G	L	239
NTDB id 1387	A4U84 RS06900 WP 020457569.1	L	L	Q	V	N	F	L	N	R	D	Q	L	P	I	A	Q	Q	L	S	Q	N	I	A	E	N	.	R	P	L	V	S	R	D	L	T	D	I	I	G	Q	Q	H	A	K	R	A	L	I	I	A	A	S	G	H	N	L	L	F	L	G	P	P	G	T	G	K	T	M	L	A	S	R	L						

[illegible]

logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPTCGYGQNRISPGQILRYLRLSGPFLDRFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVITISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNLKLSGPLLDRIDITHIEVQKVFEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1043946 ACEPWK RS26575 WP 002883134.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNISQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPIESGKIHSISRAKIDYPARFQLIAAMNPSPTCGHYQKGKHNRL.ASPEQTLRYLGRLSGPFLLDRFDLSLEIPLPPPG	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIIISRAQKTRFPAFQIVGALNPSPTCGYEGNQAR..TNPQATILRYLGRLSGPPLDRFDMSLEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LREPLESGEIVISRAQKTRFPAFQIVGALNPSPTCGYEGSSQAR..ANPQSILRYLSRLSGPPLDRFDMSIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRANAKIQFPAFQLYAAMNPSPTCGHYTGTNRL..TSPQQIMRYLNLRLSGPFLDRFDLSIEVPLLPQG	395
consensus	*!*****!!!!* *** *!!!!*****!!!!* * ** *	

logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	L SNG GDRGESSAAYRERVLRKAREIQMARQCKVALLNSKEIECLDALEFLENALKGLSARAYHRLK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	QLSD..KRKGESSEIRQRVLKAREIQQERYQDLAISYNAQMGPKEIEHFCELDVSLLLIKNAMEKLNLSARAYDRILK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKLLKSARGYHRLK	470
NTDB id 1043946 ACEPWK RS26575 WP 002883134.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQLFLREVMSKLLKSARGYHRLK	466
NTDB id 1397 DSB67 RS15690 WP 005535577.1	ILSQG.SQGEESATVRQRVLAARERQMLRQNK...LNAHLENREMKNCRLRREDAVWLEQTLTQLGLSTRAWQRLK	467
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLSEG.GDRGEPTAIVKERVNQARDCLARSGK...VNALLGSREIEAFCLPKQSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	TLANG.GDRGESTAAVRQRVWVARERMLARSGK...VNALLGSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
consensus	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLTTKEIEQDCKLTDRDAFLFLENALTKLGLSVRAYHRILK	
	! **** * *! ***** ! *	

logo

NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQALSYPKQNLHLPK.....	503
NTDB id 1043946 ACEPWK RS26575 WP 002883134.1	VARTIADLAEVEETIERCHLQEALSYRAIDRMLNHLQKMMA	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	VSRTIADLQGEQIFQPHLAEALGYRAMVRLLQKLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!***** ** !***! * !***** *	

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