

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVKKVYGSALIHGVSQAQTITTEVNVDQGV.GYHLVLGLPDNALIKESSHRISAAIKNVGYKLPCKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKRSTIGTIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGTIVAQPVSVEVHLSNGLPSETMVGLETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1004958	ABH214 RS23180 WP	063148419.1	MSLSVVYTRAAGVKAAPLLISEVHLSNGLPGLTMVGLPETVKEARDVRSAIINSGYAFPAKKITINLAPADLPKEGGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVQAPSVSVEVHLSNGMPGFTTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQAPPVTVEVHLSNGMPGFTTLVGLPETTVKESKDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQAPPLVTIEVHLSNGKPFTTLVGLPEKTVKEAQDVRVSALMNARFKYPAKRITVNLAPADLPKEGGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIIYSRASIGVEAPLVTTIEVHISGSPGLTMLVGLPEKS VKEAQDVRVSALMNANFDYPARRITINLAPADLPKEGGGR	80
consensus				* * ! * * * * * * * ! * ! * * * * * * * * * * * * * * ! * * * * * * * * ! * * * * * * * * ! * * * * * * * *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGQTIAPETERYLIMGELSLDGGGLQPTKGVLPPIATIRAREEGFKGITLPKQNTREAAIVNDLEVYGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPALIALGILAASEQIPLTNLANHEFIGELALSSELGRGVSAITPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GCO85 RS03150 WP 011213198.1	FDPALIALGILAASEQIPLTNLANHEFIGELALSSELGRGVSAITPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1004958	AHB214 RS23180 WP 063148419.1	YDLPIAIALLAASEQINTSGLSSECFVGELALTGALRGVPGAISPALEAIRA.GRHLIIANANASEVSLIAEKGCCLVAGH	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPALIALGILAASEQIATDKLKNYEFVGEALALSGGLRTVKGVLPAAALAANKK.QRHLLVPHANGDQAALVKGKEQHKSACS	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPALIALGILAASDQIARNKLESYEFIGELALSGELRGVKGVLPAALAAANQV.ERCLVVPHNSCDQAALVGVERHKSAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPALIAIGILAASGDLDASHKQFEFVAELALTGQLRGVHGVIPIALAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPALIAIGILAASQQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKA.KRELIIVPQQNANEVSVLSNTQTYYCAST	159
consensus			*!!*!!**!!!!!!*!* * * * * !!*! * ! *	

NTDB id 1323	RAOC RS07335 WP 004916218.1	I	K	E	V	I	D	F	F	N	E	N	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	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	S	G	A	P	G	S	G	K	T	M	A	K	R	F	S	T	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	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	S	G	A	P	G	S	G	K	T	M	A	K	R	F	S	T	L		235							
NTDB id 1004958	ABH214 RS23180 WP 063148419.1	L	Q	E	V	C	A	E	L	E	G	R	H	E	L	A	E	P	K	N	E	E	V	...	V	A	D	S	P	D	L	S	D	I	K	G	Q	E	Q	K	R	A	L	E	I	T	A	A	G	G	H	N	I	L	I	G	P	P	G	T	G	K	T	M	L	A	S	R	L	S	G	L		234								
NTDB id 1397	DSB67 RS15690 WP 005535577.1	L	L	E	V	C	A	E	L	C	G	Q	H	Q	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		235					
NTDB id 1153	A1552VC RS00115 WP 000521788.1	L	L	E	V	C	A	E	L	C	G	Q	Q	T	L	S	L	F	Q	S	S	P	S	...	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		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	G	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	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	Q	H	N	L	L	F	L	G	P	P	G	T	G	K	T	M	L	A	S	R								

[illegible]

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LREPLESGEIIISRAAKIIFPAFQLYAAMNPSPGCHY-G-ONRITPQRIIRYLRLSGPFLDRFDMSIEIPALPQG	397
NTDB id 1271 LPP RS03220 WP 011213198.1	MRQPLEDRVITISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNNT.SSSFEMQRYLNLKLSGPLLDRIDITHIEVQKVVEFD	394
NTDB id 1248 GC085 RS03150 WP 011213198.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	394
NTDB id 1004958 ABH214 RS23180 WP 063148419.1	LREPLESGHICISRAAAQIEFPAKFQLIAAMNPPCGQWGNSSQANCMCTPDRIISRYLAKLSAPLLDRIDMQVTIHALSQE	391
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LREPESGEIHLSTRAKISYPAQFQLVAAMNPSPGTGHYQGNHN..RCTPEQTLRYLSKLSGPFLLDRFDLSLEIPLPPPG	392
NTDB id 1153 A1552VC RS00115 WP 000521788.1	LREPLESGEIIISRAQKTRFPAQFQIVGALNPSPGTGYEGNQA..RTNPQATILRYLGRLSGPPLDRFDMSLEIPALPKG	392
NTDB id 1349 HI 1117 AAC22771.1	LREPLESGEIVISRAQKTRFPAQFQIVGALNPSPGTGYEGSSQA..RANPQSILRYLSRLSGPPLDRFDMSIEIPALPKG	396
NTDB id 1387 A4U84 RS06900 WP 020457569.1	LRQPLESGEIIISRANAKIQFPAQFQIVGALNPSPGTGHYTGTN..RTSPQQIMRYLNLRLSGPFLDRFDLSIEVPLLPQG	395
consensus	*!***** *!!* *** *!!*!*****!!*!!* * ** * ** *!!!! *!!!!*!!!!*!***** ** *	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	LQNTGDRGESAAVRERV-kAREIQARQCKVALLSKEIECQLDALEFENALKGLSARAYHRLK	475
NTDB id 1271 LPP RS03220 WP 011213198.1	QLSD..KRKGESSEIRQVRLKAREIQERYQDLAISYNAQMGPKEIEHFCELDVSLLLTKNAMEKLNLSARAYDRILK	470
NTDB id 1248 GC085 RS03150 WP 011213198.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQFLREVMSKLLKSARGYHRLK	470
NTDB id 1004958 ABH214 RS23180 WP 063148419.1	ELIKPNTHLEKQSLAIREKVTMKHEIQMARQDS...LNANLNSKTCCEMVCELGSEEQFLREVMSKLLKSARGYHRLK	466
NTDB id 1397 DSB67 RS15690 WP 005535577.1	LLRQT.GIKGESSAAVRERVIAAQAQYARQNR...LNARLDNSGIRQFCSLNAEDAGWLEETLTFGLSTRAWQRLK	467
NTDB id 1153 A1552VC RS00115 WP 000521788.1	TLSEG.GDRGEPTAIVKERVNQARDCLARSGK...VNALLGSREIEAFQPLQKSDAEFLENALHRLGLSIRAYHRIK	467
NTDB id 1349 HI 1117 AAC22771.1	TLANG.GDRGESTAAVRQVWVARERMLARSGK...VNALLGSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIK	471
NTDB id 1387 A4U84 RS06900 WP 020457569.1	SLQNT.GDRGETSAQVREKVLKVREIQMERAGK...INAYLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILK	471
consensus	ALQNNTDQRGETTEQARKRVLEARHLQFNRRGK...INAQLTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILK	
	! ***** *!!!! *!!!!*! *****! * *!!!! * *!!!! *!!!!*!!!!*!!!!*!!!!	

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NTDB id 1323 RAOC RS07335 WP 004916218.1	VSRTIADLERETNIQSHHIAEAIQYRSILDRDFWKV.....	510
NTDB id 1271 LPP RS03220 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1248 GC085 RS03150 WP 011213198.1	VSRTIADLNSSKKVLLNHLQQAISYKQNLHLPK.....	503
NTDB id 1004958 ABH214 RS23180 WP 063148419.1	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	VSRTIADLQGEQIFQPHLAEALGYRAMVRLKQLSNM..	509
NTDB id 1387 A4U84 RS06900 WP 020457569.1	VSRTIADLAGEAQIQPHLAEALGYRAMDRLLQRLQGES.	510
consensus	!*****! * * *!!!!* *!!!!* *!!!!*!!!!*!!!!*!!!!	

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