

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVVKVYGS A IHGVSAQTITTEVNVDQGV.GYHLVLGLPDNATKESSHRISAAAKNVGYKLPGKKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKTRSTIGIVAQPVSVEVHI.SNGLPSTFMTVGLAETAVKESKDRVRSAIINSQFEFPCKRITVNLGPANLPKTGTSG	80
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGIVAQPVSVEVHI.SNGLPSTFMTVGLAETAVKESKDRVRSAIINSQFEFPCKRITVNLGPANLPKTGTSG	80
NTDB id	1091088	ACL2XK RS18075 WP	413721635.1	MSLAIIYTRASIGVQAPLIVSEAHIS.KGLPGFTLVGLPDAITIKGARDRVRSALINNGFDFFPARITVSLAPADLPKEGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIIHSRASVGVQA.PSVSVEVHIS.NGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIIHSRASIGVQAPPVTIVEVHIS.NGMPGFTLVGLPETTVKESRDVRSAIINSRFEPFAKRITVNLAPADLPKEGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQA.PLVTTIEVHIS.NGKPFGFTLVGLPEKTVKEAQDVRVSALMNAQFKYP.AKRITVNLAPADLPKEGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIIYTRASIGVEAPLVTTIEVHISGGSPGLTLVGLPEKS.VKEAQRDVRVSALMNANFYDPARRITINLAPADLPKEGGR	80
consensus				* * * * *	

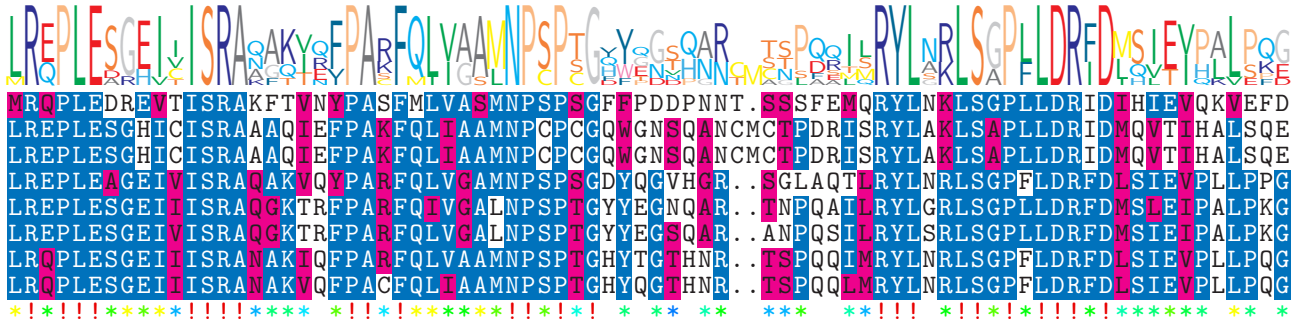
NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSIALGILAASGGTIIAPEITERYLIMGELSLDGGGLQPIKGVLPPIATRAREEGFGKITLPKQNTREAAIVNDLEVYGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDLPIALGILAASEQIPLTNLANHEFIGELALSSELGRVSAITPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDLPIALGILAASSEQIPLTNLANHEFIGELALSSELGRVSAITPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1091088	ACL2XK RS18075 WP 413721635.1	YDLPIALAIIAASEEQIAADKLACHEFELGELALSSELRPVQQGAIPALAAQA.QRRLLISSHNSGEAALTIDPSRVLVAGH	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDLPIALGILAASEQIATDKLKNYEFVGELALSGLRLTVKGVLPAALAAANK.KQRHLVVPHANGDQAALVGKEQHKSAQS	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDLPIALGILAASeqIARNKLESYEFIGELALSSELRGVKGVLPALAAANQV.ERCLVVPHSNCDQAALVGVERHKSAAQS	159
NTDB id	1349	HI 1117 AAC22771.1	FDLPIAIIAASAAGQLDASHKQFEFVAELATGQLRGVHGVIPIALAAQKS.KRELIIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDLPIAIIAASAAGQLDSDKLKRIEELGELSLTGHLRGVHGAIAPAVLAASKA.KRETIIVPQQNANEASLVSNVTQTYCAST	159
consensus			*!!*!!**!!!!!!*!* * **!*!!*! * **** **!* * !! * * * * *	

NTDB id 1323	RAOC RS07335 WP 004916218.1	I	K	E	V	I	D	F	F	N	E	N	C	P	L	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	L	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	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	235					
NTDB id 1091088	ACL2XK RS18075 WP 413721635.1	L	R	D	V	C	A	E	L	G	G	Q	H	L	N	L	V	A	P	P	G	D	P	T	...	P	P	A	Y	D	G	A	L	D	S	D	I	T	G	Q	P	Q	K	R	A	L	E	I	A	A	A	G	G	H	N	L	L	I	G	P	P	G	T	G	K	T	M	L	A	S	R	L	P	G	L	M	235				
NTDB id 1397	DSB67 RS15690 WP 005535577.1	L	L	E	V	C	A	E	L	G	G	Q	H	L	N	L	V	A	P	P	G	D	P	T	...	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	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	N	R	D	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												

NTDB id 1323	RAOC RS07335 WP 004916218.1	PPLTLKEAEETTKHSVAGKMGAETSLMTIRPFRSPHHTISDV	ALVGGGSYPQ	PGEISLAHNGVLF	LDLMEPFKRTVLE	318	
NTDB id 1271	LPP RS03220 WP 011213198.1	PELSETGAECAAINSTRGKLDP.FREWILPPFRAPHHTASPV	ALVGGGNPPK	PGEISLAHNGVLF	LDLDELPEFNRQVLE	314	
NTDB id 1248	GC085 RS03150 WP 011213198.1	PELSETGAECAAINSTRGKLDP.FREWILPPFRAPHHTASPV	ALVGGGNPPK	PGEISLAHNGVLF	LDLDELPEFNRQVLE	314	
NTDB id 1091088	ACL2XK RS18075 WP 413721635.1	PPISDAEAEVETAAILSLSMAGAA.RRHWRQRPFRAPHHSASMA	ALVGGGSLP	PGEISLAHNGVLF	LDLDELPEFQRVLE	314	
NTDB id 1397	DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEIN.EHNWKT	TRPFRAPHHS	SMAALVGGGSVPR	PGEISLAHNGLLFLDLMEPFDRKVLDS	314	
NTDB id 1153	A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQQEIN.QHNWKL	RPFRAPHHS	SMAALVGGGTIP	PGEISLAHNGLLFLDLMEPFERKVLDS	314	
NTDB id 1349	HI 1117 AAC22771.1	PEMTDLEAETASVTSLVQNELN.FHNWQ	QRPFRAPHHSASMP	ALVGGGTIP	KPGEISLATNGVLF	LDLDELPEFERKVLDA	318
NTDB id 1387	A4U84 RS06900 WP 020457569.1	PEMEDDEAETASVTSLVQNELN.FQNWKK	RPFRSPHHSASMV	ALVGGGSIPK	PGEISLAHNGVLF	LDLDELPEFERKVLDA	317
consensus		!*****!*	*****	*****	*****		

logo

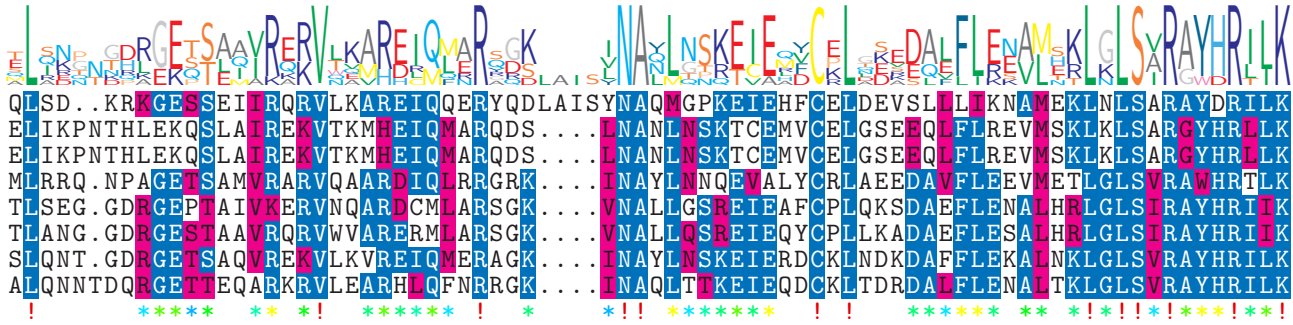
NTDB id 1323 RAOC RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1091088 ACL2XK RS18075 WP 413721635.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus



397
394
394
392
392
392
396
395

logo

NTDB id 1323 RAOC RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1091088 ACL2XK RS18075 WP 413721635.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus



475
470
470
467
467
467
471
471

logo

NTDB id 1323 RAOC RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1091088 ACL2XK RS18075 WP 413721635.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus



510
503
503
507
507
507
509
510

☒ non conserved
☒ similar
☒ ≥ 50% conserved