

NTDB id	1323	RAOC RS07335 WP	004916218.1	.MLVKKVYGS A IHHGVS A QTTITTEVNVDQGV.GYHLVLGLPDNATIKESSHRISAAAKNVGYKLPGKKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP	011213198.1	MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSTFMTVGLAETAVKESKDRVRSAIINSQFEFPCKRITVNLGPANLPKTGTSG	80
NTDB id	1248	GC085 RS03150 WP	011213198.1	MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSTFMTVGLAETAVKESKDRVRSAIINSQFEFPCKRITVNLGPANLPKTGTSG	80
NTDB id	1091292	ACL2XI RS07270 WP	413721635.1	MSLAIIYTRASIGVQAPLISVEAHISKGLPGFTTLVGLEDATIKGARDRVRSALLINGFDPAFRITVSLAPADLPKEGGGR	80
NTDB id	1397	DSB67 RS15690 WP	005535577.1	MGLAIITHSRASVGVQA P SVSVEVHLSNGMPGFTTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGGR	80
NTDB id	1153	A1552VC RS00115 WP	000521788.1	MGLAIITHSRASIGVQA P PVTVEVHLSNGMPGFTTLVGLPETTVKESKDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGGR	80
NTDB id	1349	HI 1117 AAC22771.1		MSLAIVYSRASMGVQA P PLVTIEVHLSNGKP G FTTLVGLPEKTVKEAQQRVRSALMNAQFKYP A KRITVNLAPADLPKEGGGR	80
NTDB id	1387	A4U84 RS06900 WP	020457569.1	MSLAIIYSTRASIGVEA P LVLTIEVHISGGSPLGLTLVGLPEKSVKEAQQRVRSALMNANFDYPARRITINLAPADLPKEGGGR	80
consensus				* * ! * * * * ! * ! * * * * ! * * * * ! * ! * * * * ! * ! * * * * ! * ! * * * * ! * ! * * * *	

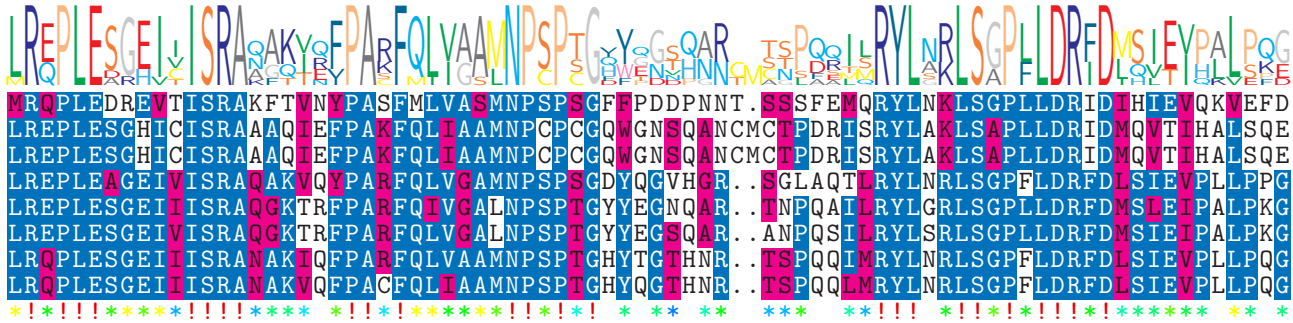
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NTDB id	1271	LPP RS03220 WP 011213198.1	FDPILPIALGILAASEQIPLTNLANHEFIGELALSSELGRVSAITPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDPILPIALGILAASEQIPLTNLANHEFIGELALSSELGRVSAITPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1091292	ACL2XI RS07270 WP 413721635.1	YDLPIALAILAASEQIAADKLACHEFELGELALSSELRPVQQGAIPALAAQA.QRRLLISSHNSGEAALLPDGRSVLVAGH	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPIALGILAASEQIATDKLKNYEFVGELALSGLRLTVKGVLPAALAANK.KQRHLVVPHANGDQAALVGKEQHKSACS	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPIALGILAASDQIARNKLESYEFIGELALSSELRGVKGVLPALAANKV.ERCLVVPHSNCDQAALVGVERHKSACS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPILPIALGILAASGDLDASHKQFEFVAELATGQLRGVHGVIAPALAAQS.KRELTIKQNANEASLVSDQNTYFAQT	159
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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	L	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	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	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 1091292	ACL2XI RS07270 WP 413721635.1	L	R	D	V	C	A	E	L	G	G	A	E	L	N	A	V	P	G	Q	D	P	T	...	P	P	A	Y	D	G	A	L	D	S	D	I	T	G	Q	P	Q	A	K	R	A	L	E	I	A	A	A	G	G	H	N	L	L	I	L	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	Y	Q	T	P	K	K	...	E	L	K	A	H	G	R	D	L	Q	D	I	I	G	Q	Q	Q	G	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	D	L	C	G	Q	Q	T	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	G	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	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</																		

NTDB id 1323	RAOC RS07335 WP 004916218.1	PPLTLKEAEETTKHSVAGKMGAETSLMTIRPFRSPHHTISDV	ALVGGGSYPQ	PGEISLAHNGVLF	LDLMEPFKRTVLE	318	
NTDB id 1271	LPP RS03220 WP 011213198.1	PELSETQALECAAINSTRGKLDP.FREWILPPFRAPHHTASPV	ALVGGGNPPK	PGEISLAHNGVLF	LDLDELPEFNRRQVLE	314	
NTDB id 1248	GC085 RS03150 WP 011213198.1	PELSETQALECAAINSTRGKLDP.FREWILPPFRAPHHTASPV	ALVGGGNPPK	PGEISLAHNGVLF	LDLDELPEFNRRQVLE	314	
NTDB id 1091292	ACL2XI RS07270 WP 413721635.1	PPISDAEAEVETAAIISLSMAGAA.RRHWRQRPFRAPHHSASMA	ALVGGGSLPR	PGEISLAHNGVLF	LDLDELPEFQRVLE	314	
NTDB id 1397	DSB67 RS15690 WP 005535577.1	PEMSDEEAMETASVASLTQSEIN.EHNWKT	TRPFRAPHHS	SSMAALVGGGSVPR	PGEISLAHNGLLFLDLMEPFDRKVLDS	314	
NTDB id 1153	A1552VC RS00115 WP 000521788.1	PEMSDEEAMETASIASLTQQEIN.QHNWKL	RPFRAPHHS	SSMAALVGGGTIPR	PGEISLAHNGLLFLDLMEPFERKVLDS	314	
NTDB id 1349	HI 1117 AAC22771.1	PEMTDLEAETASVTSLVQNELN.FHNWQK	RPFRAPHHSASMP	ALVGGGTIPK	PGEISLATNGVLF	LDLDELPEFERKVLDA	318
NTDB id 1387	A4U84 RS06900 WP 020457569.1	PEMEDDEAETASVTSLVQNELN.FQNWK	RPFRSPHHSASMV	ALVGGGSIPK	PGEISLAHNGVLF	LDLDELPEFERKVLDA	317
consensus		!*****!*	*****	*****	*****		

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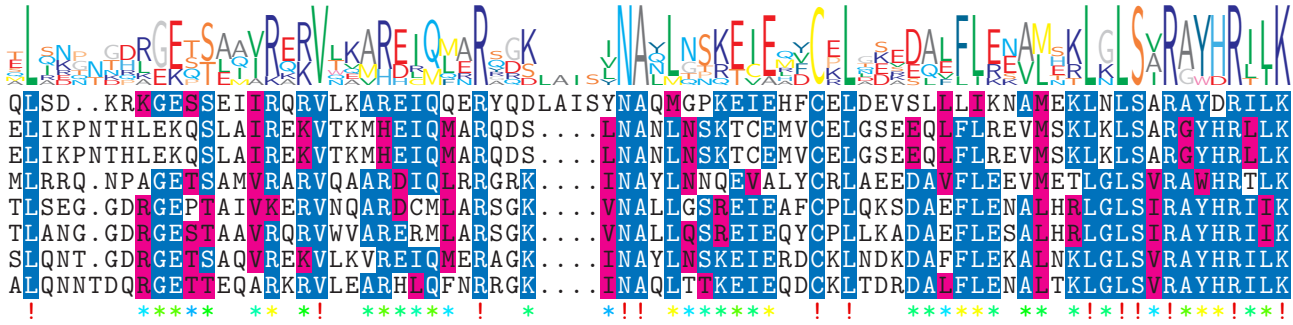
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NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus



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NTDB id 1323 RAOC RS07335 WP 004916218.1
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consensus



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NTDB id 1323 RAOC RS07335 WP 004916218.1
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NTDB id 1091292 ACL2XI RS07270 WP 413721635.1
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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

X non conserved
X similar
X ≥ 50% conserved