

NTDB id	1323	RAOC RS07335 WP 004916218.1	.MLVVKVYGS A IHGVSAQTITTEVNVDQGV.GYHLVLGLPDNATIKESSHRISAAAKNVGYKLPGKKITINMAPADLRKEGSA	78
NTDB id	1271	LPP RS03220 WP 011213198.1	MSLAFTKTRSTIGTIVAQQPVSEVEHLSNGLPSTFMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1248	GC085 RS03150 WP 011213198.1	MSLAFTKTRSTIGTIVAQQPVSEVEHLSNGLPSTFMVGLAETAVKESKDRVRSAIINSQFEFPCRKITVNLGPANLPKTGSG	80
NTDB id	1005308	ABH274 RS24770 WP 000058957.1	MSLSIVHTRAALGVNAAPPITVEVHISKGLPGLTMVGLPETVKEARDVRSAIINSGYEYPAKKITINLAPADLPKEGGR	80
NTDB id	1153	A1552VC RS00115 WP 000521788.1	MGLAIITHSRASIGVGQAAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAIINSRFEPFAKRITVNLAPADLPKEGGR	80
NTDB id	1397	DSB67 RS15690 WP 005535577.1	MGLAIITHSRASVGVGAAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPAKRITVNLAPADLPKEGGR	80
NTDB id	1349	HI 1117 AAC22771.1	MSLAIVYSRASMGVGAPLVLTIEVHLSNGKPFGFTLVGLPEKTVKEAQDRVRSAIMNAQFKYPAKRITVNLAPADLPKEGGR	80
NTDB id	1387	A4U84 RS06900 WP 020457569.1	MSLAIIYSRASIGVEAPLVLTIEVHISGGSPGLTLVGLPEKSVEKAQDRVRSAIMNANFDYPARRITINLAPADLPKEGGR	80
consensus			* * * * *	

NTDB id	1323	RAOC RS07335 WP 004916218.1	YDLSTALGILAASGGTIIAPEIERVYLIMGELSLDGGGLQPIKGVLPATIRAREEGFGKITLTPKQNTREAAIVNDLEVVGVEN	158
NTDB id	1271	LPP RS03220 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1248	GC085 RS03150 WP 011213198.1	FDPILPALGILAASEQIPLTNLANHEFIGELALSSELGRGVSATIPAVLAAHKD.NQHLLIANANAAEASLTGHQKVFTANN	159
NTDB id	1005308	ABH274 RS24770 WP 000058957.1	YDLPIAIALAASEQITANKLDEVELVGELALTGALRGVPGCATSSATEAIKS.GRKTIIVAKDNEDEVGLINGECGLIADH	159
NTDB id	1153	A1552VC RS00115 WP 000521788.1	FDPILPALGILAASDIARNKLSEVEFIGELALSGETIRGVKGVLPAALAANQV.ERCLVVPHSNGDQAALVGVERHKSAQS	159
NTDB id	1397	DSB67 RS15690 WP 005535577.1	FDPILPALGILAASEQIATDKLKNYEFVGELALSGGLRITVKGVLPALAANKK.QRHLLVVPHANCDQAALVGKEQHKSACS	159
NTDB id	1349	HI 1117 AAC22771.1	FDPPIAIGILAASGDLDASHLKQFEFVAELALTGQLRGVHGVIIPAIIAAQKS.KRELIIIAKQNANEASLVSDQNTYFAQT	159
NTDB id	1387	A4U84 RS06900 WP 020457569.1	FDPPIAIGILAASQQIDSDKLKRIFELLGELSITGHLRGVHGAIIPAVLAASKA.KREITIIVPQQNANEASLVSNVTQTYCAST	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	I	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	I	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	I	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 1005308	ABH274 RS24770 WP 000058957.1	L	Q	A	V	C	A	E	L	G	K	H	A	L	E	H	S	P	K	P	T	N	A	...	V	S	R	A	L	Q	H	D	L	S	D	V	V	G	E	Q	K	R	G	L	E	I	T	A	A	G	G	H	N	L	I	L	G	P	P	G	T	G	K	T	M	L	A	S	R	I	N	G	L		234								
NTDB id 1153	A1552VC RS00115 WP 000521788.1	L	L	E	V	C	A	D	I	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	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 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		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																	

NTDB id 1323 RAOC RS07335 WP 004916218.1 PPLTLKEAETTKTHSVAGKMGAETSMTIRPFRSPHHTISDVVALVGGGSYPQPGEISLAHNGLVFLDLMPEFKRTVLVE 318

NTDB id 1271 LPP RS03220 WP 011213198.1 PELSETGATECAAINSRIGKLPDF.REWRLPPFRAPHHTASPVVALVGGNPNPKPGEISLAHHGVLFDELPEFNRQVLETF 314

NTDB id 1248 GC085 RS03150 WP 011213198.1 PELSETGATECAAINSRIGKLPDF.REWRLPPFRAPHHTASPVVALVGGNPNPKPGEISLAHHGVLFDELPEFNRQVLETF 314

NTDB id 1005308 ABH274 RS24770 WP 000058957.1 PDLSNEEAESAAILSLVAESVQ.KQRWRPFRSPHHSASTAMVGGGATPGPGEISLAHNGLVFLDELPEFERRTLDA 313

NTDB id 1153 A1552VC RS00115 WP 000521788.1 PEMSDDEEAMETASIASLTQQEINQ.HNWKLRPFRAPPHSSSMAALVGGGTIPRGPGEISLAHNGLLFLDLMPEFEERKVLD 314

NTDB id 1397 DSB67 RS15690 WP 005535577.1 PEMSDDEEAMETASVASLTQSSEINE.HNWKTRPFRAPPHSSSMAALVGGGSVP RGPGEISLAHNGLLFLDLMPEFD RKVLD 314

NTDB id 1349 HI 1117 AAC22771.1 PEMTDLEAITASVTSILVNELNF.HNWKQRPFRA PHSSAMPALVGGGTIPKPGEISLATNGVLFDELPEFER KVLD 318

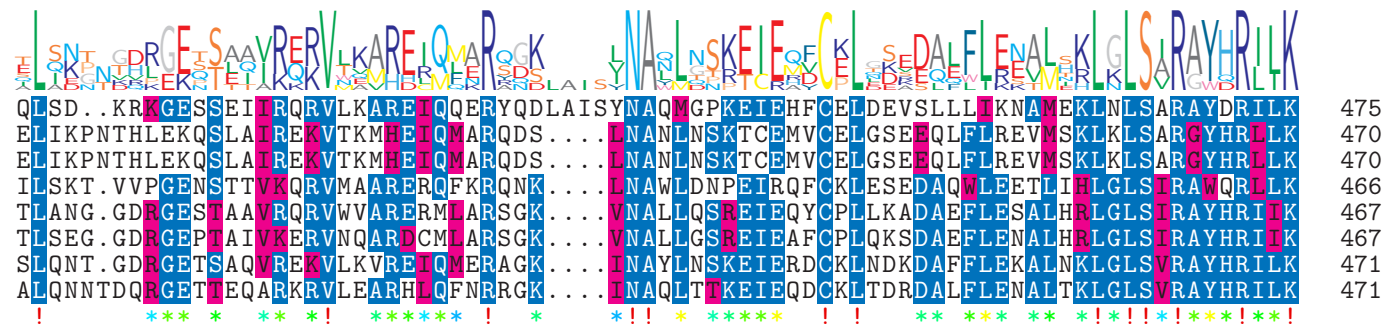
NTDB id 1387 A4U84 RS06900 WP 020457569.1 PEMEDDEAIETASVTSILVNELNF.QNVKKRPFRSPHHSASMVALVGGGSIPKPGEISLAHNGLVFLDELPEFERKVLD 317

consensus !***! *!* ** * !** * !!** *!!** *!!** *!!** *!!** *!!** *!!** *!!** *!!** *

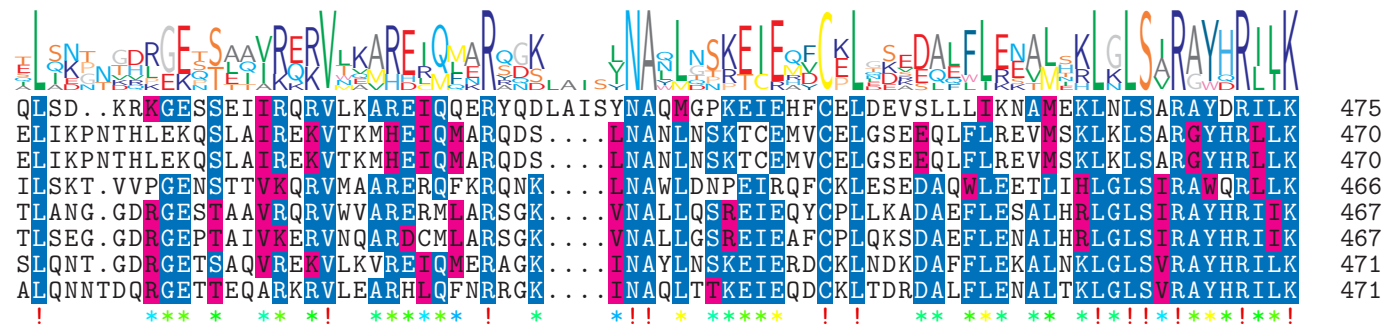
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NTDB id 1323 RA0C RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1005308 ABH274 RS24770 WP 000058957.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus

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NTDB id 1323 RA0C RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1005308 ABH274 RS24770 WP 000058957.1
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NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus
```



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NTDB id 1323 RA0C RS07335 WP 004916218.1
NTDB id 1271 LPP RS03220 WP 011213198.1
NTDB id 1248 GC085 RS03150 WP 011213198.1
NTDB id 1005308 ABH274 RS24770 WP 000058957.1
NTDB id 1153 A1552VC RS00115 WP 000521788.1
NTDB id 1397 DSB67 RS15690 WP 005535577.1
NTDB id 1349 HI 1117 AAC22771.1
NTDB id 1387 A4U84 RS06900 WP 020457569.1
consensus
```



- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved