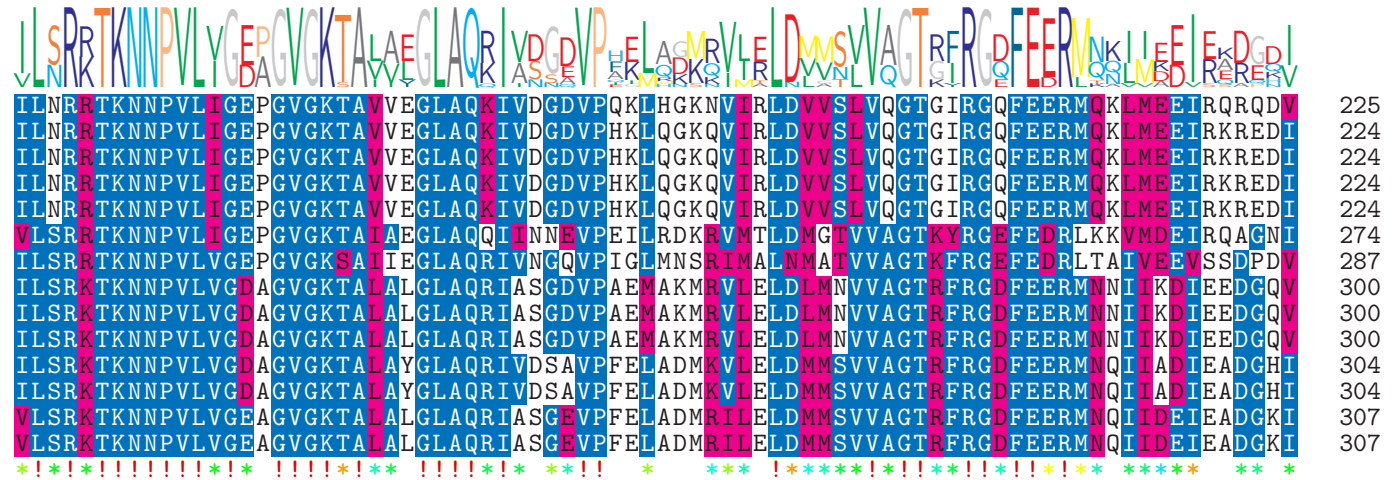



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NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 34150 SMULJ23 RS09100 WP 002266892.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

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NTDB id 378 SMU RS02690 WP 002263569.1
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NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

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NTDB id 34150 SMULJ23 RS09100 WP 002266892.1
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NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

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NTDB id 378	SMU RS02690 WP 002263569.1	EDYEKAAAYFRDQI.....AKYK	EMQSAKLDKENTPVITEKNIEVIV	EQKTINIPVGLKEKEEQSQLIHLAD	DLKTRVIG	455	
NTDB id 241	SP RS04015 WP 000882523.1	EDFEKAAAYFRDQI.....AKYK	EMQKKKITDQDTPSISEKTI	IEHIEEQKTINIPVGLKEKEEQSQLIHLAED	LKSHVIG	454	
NTDB id 281	KZH43 RS03550 WP 000882517.1	EDFEKAAAYFRDQI.....AKYK	EMQKKKITDQDTPSISEKTI	IEHIEEQKTINIPVGLKEKEEQSQLIHLAED	LKSHVIG	454	
NTDB id 245	SPD RS03860 WP 000882517.1	EDFEKAAAYFRDQI.....AKYK	EMQKKKITDQDTPSISEKTI	IEHIEEQKTINIPVGLKEKEEQSQLIHLAED	LKSHVIG	454	
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NTDB id 85	BSU 00860 NP 387967.1	QFEFEKAA	SLRDTEQRLREQVEDTKKSWKE	KQGENSEVTVDIIAMVVS	SWTGVVPSKIAQTTETDKL	LNMENILHSRVIG	512
NTDB id 610	V4T04 RS10165 WP 012897346.1	LDIKAS	RRTKEKAVEKIIDKIKYKFS.....VKED	KRQEVTDQAVVAVASTLT	GVPIQTMTKSESDRLINLEK	ELHKRVVG	521
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NTDB id 377	SMU RS09275 WP 002262344.1	NDYQLAKRLLKKEK.....K.....	PLLKKRAEVKEEDILATLS	SKLSGIPVQKLTQADSKKY	NLNERELHKRVIG	519	
NTDB id 329	STU RS10020 WP 011225298.1	GDIGAAVVKYKANQ.....K.....	AKFPKPA	LVDAQIMQTL	RSLSGIPVEKMTQTD	SKRYNLNESELHKRVIG	522
NTDB id 297	STER RS00545 WP 011680614.1	GDIGAAVVKYKANQ.....K.....	AKFPKPA	LVDAQIMQTL	RSLSGIPVEKMTQTD	SKRYNLNESELHKRVIG	522
consensus		***	***	*	*	*****!* **** * **** * !****!!	

NTDB id 378	SMU RS02690 WP 002263569.1	QDAV	DKIA	KAIR	RNRV	GL	TPNR	PIGS	FL	FG	PTG	VG	KT	EL	SK	QL	LA	IE	LF	GS	ED	S	MIR	FD	M	SEY	MEK	H	AV	AK	LV	G	AP	P	535																				
NTDB id 241	SP RS04015 WP 000882523.1	QDDA	VDKI	AKA	IRNR	RV	GL	TPNR	PIGS	FL	FG	PTG	VG	KT	EL	SK	QL	LA	IE	LF	GS	AD	S	MIR	FD	M	SEY	MEK	H	SV	AK	LV	G	AP	P	534																			
NTDB id 281	KZH43 RS03550 WP 000882517.1	QDDA	VDKI	AKA	IRNR	RV	GL	TPNR	PIGS	FL	FG	PTG	VG	KT	EL	SK	QL	LA	IE	LF	GS	AD	S	MIR	FD	M	SEY	MEK	H	SV	AK	LV	G	AP	P	534																			
NTDB id 245	SPD RS03860 WP 000882517.1	QDDA	VDKI	AKA	IRNR	RV	GL	TPNR	PIGS	FL	FG	PTG	VG	KT	EL	SK	QL	LA	IE	LF	GS	AD	S	MIR	FD	M	SEY	MEK	H	SV	AK	LV	G	AP	P	534																			
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NTDB id 85	BSU 00860 NP 387967.1	QDEA	VVA	VAK	AV	RR	AR	AG	LK	DP	KR	PI	GS	FI	IF	L	G	P	T	G	V	G	K	T	E	L	A	R	A	L	A	E	S	I	F	G	D	E	S	MIR	ID	M	SEY	MEK	H	ST	S	R	L	V	G	S	P	P	592
NTDB id 610	V4T04 RS10165 WP 012897346.1	QEBA	ISA	V	S	R	A	I	R	R	A	R	S	G	V	A	D	S	R	R	P	M	G	S	F	M	F	L	G	P	T	G	V	G	K	T																			

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NTDB id	329	STU RS10020 WP 011225298.1	YVGYDEGGELETKVRNKPYSVLLFDEIEKAHPDI FNVLLQVLDDGVLTDSRGKRVDFSNTIIIMTSNLGATALRDDKTVG	682
NTDB id	297	STER RS00545 WP 011680614.1	YVGYDEGGELETKVRNKPYSVLLFDEIEKAHPDI FNI LLQVLDDGVLTDSRGKRVDFSNTIIIMTSNLGATALRDDKTVG	682
consensus			!!!!*! * !!*!!**!* !!!*!!!***!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

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NTDB id 297 STER RS00545 WP 011680614.1
consensus

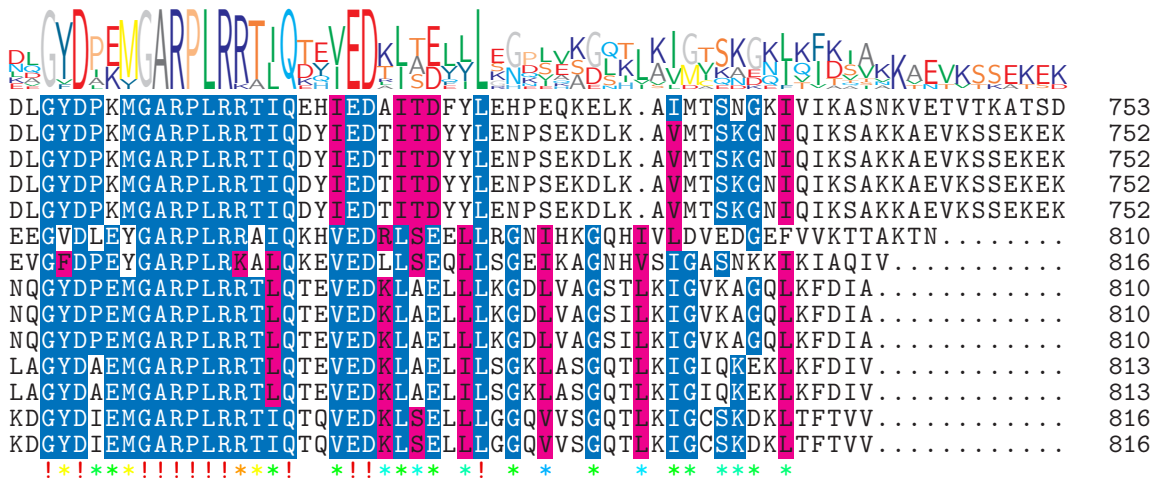
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NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```



- X non conserved
- X similar
- X $\geq 50\%$ conserved