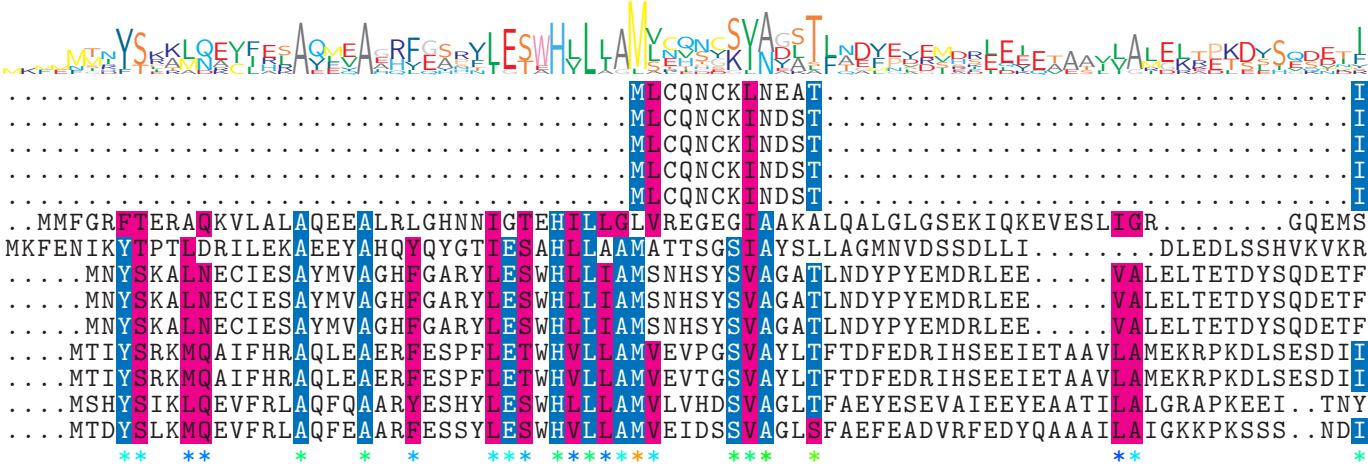


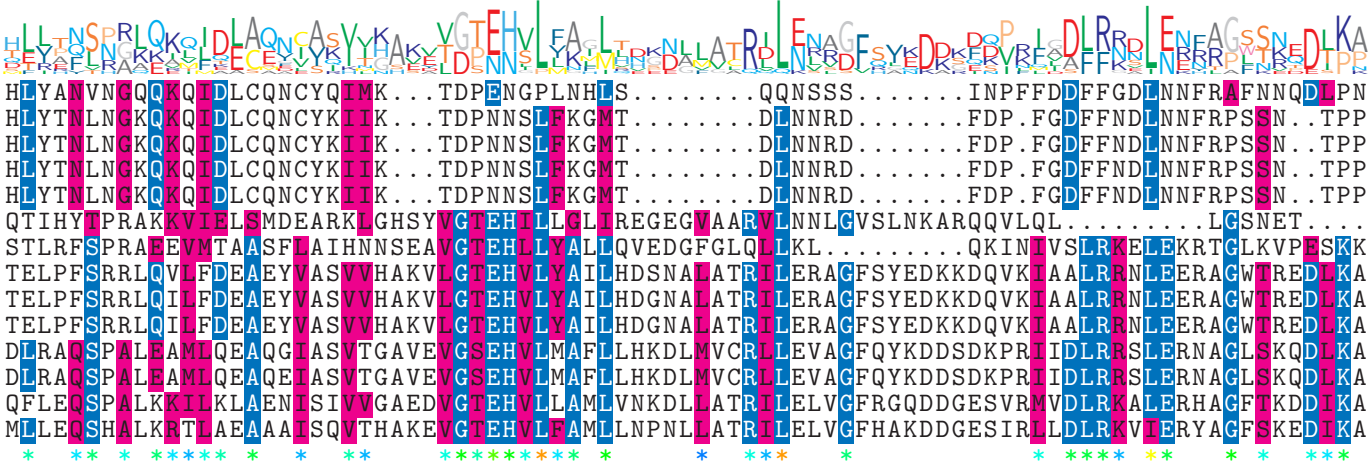
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NTDB id 610 V4T04 RS10165 WP 012897346.1
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NTDB id 290 KZH43 RS10025 WP 001109677.1
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NTDB id 329 STU RS10020 WP 011225298.1
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NTDB id 75570 DK41 RS09605 WP 000020289.1
NTDB id 377 SMU RS09275 WP 002262344.1
consensus



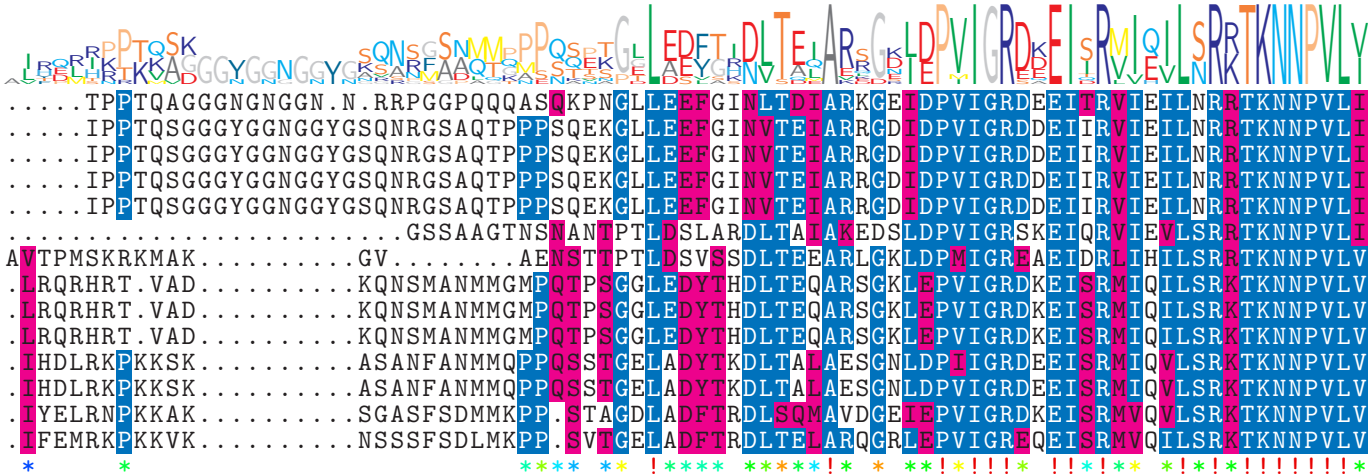
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 75570 DK41 RS09605 WP 000020289.1
NTDB id 377 SMU RS09275 WP 002262344.1
consensus



logo

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 75570 DK41 RS09605 WP 000020289.1
NTDB id 377 SMU RS09275 WP 002262344.1
consensus



NTDB	id	378	SMU	RS02690	WP	002263569.1	AKLDKENTP	VITEKN	TEVI	VEQK	INIP	VGEL	KEKE	QSQL	IHL	ADDL	KTR	RVIGQD	AAVDK	I	A	K	A	I	R	R	N	V	C	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G		488																																													
NTDB	id	241	SP	RS04015	WP	000882523.1	KKITDQDTP	ISEKT	IEHI	IEQK	INIP	VGDL	KEKE	QSQL	IHL	AEDL	KSH	VIGQD	DAVDK	I	A	K	A	I	R	R	N	V	C	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G		487																																													
NTDB	id	281	KZH43	RS03550	WP	000882517.1	KKITDQDTP	IISEKT	IEHI	IEQK	INIP	VGDL	KEKE	QSQL	IHL	AEDL	KSH	VIGQD	DAVDK	I	A	K	A	I	R	R	N	V	C	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G		487																																													
NTDB	id	245	SPD	RS03860	WP	000882517.1	KKITDQDTP	IISEKT	IEHI	IEQK	INIP	VGDL	KEKE	QSQL	IHL	AEDL	KSH	VIGQD	DAVDK	I	A	K	A	I	R	R	N	V	C	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G		487																																													
NTDB	id	243	SPR	RS03635	WP	000882517.1	KKITDQDTP	IISEKT	IEHI	IEQK	INIP	VGDL	KEKE	QSQL	IHL	AEDL	KSH	VIGQD	DAVDK	I	A	K	A	I	R	R	N	V	C	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G		487																																													
NTDB	id	85	BSU	O0860	NP	387967.1	E	K	Q	G	G	E	N	S	E	V	T	V	D	I	A	M	V	V	S	S	W	T	G	V	P	V	S	K	I	A	Q	T	E	T	D	K	L	N	M	E	N	I	L	H	S	R	V	I	G	Q	D	E	A	V	V	A	K	A	V	R	R	A	R	A	C	L	K	D	P	K	R	P	I	G	S	F	I	F	L	G		545			
NTDB	id	610	V4T04	RS10165	WP	012897346.1	F	S	V	K	E	D	K	R	Q	E	V	I	D	A	V	V	A	V	A	S	T	L	T	G	V	P	I	T	Q	M	T	K	S	E	S	D	R	L	I	N	L	E	K	E	L	H	K	R	V	G	Q	E	A	V	A	S	A	V	S	R	A	I	R	R	A	R	S	C	V	A	D	S	R	R	P	M	G	S	F	M	F	L	G		554
NTDB	id	287	SP	RS11210	WP	001109712.1	E	E	V	P	.	V	Y	K	D	L	V	T	E	S	D	I	L	T	T	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G		549	
NTDB	id	290	KZH43	RS10025	WP	001109677.1	E	E	V	P	.	V	Y	K	D	L	V	T	E	S	D	I	L	T	T	S	R	L	S	G	I	P	V	Q	K	L	T	Q	D	A	K	K	Y	L	N	L	E	A	E	L	H	K	R	V	I	G	Q	D	A	V	S	S	I	S	R	A	I	R	R	N	Q	S	G	I	R	S	H	K	R	P	I	G	S	F	M	F	L	G		549	
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NTDB	id	329	STU	RS10020	WP	011225298.1	Q	K	A	K	F	P	K	P	A	L	V	D	A																																																																								

NTDB id 378	SMU RS02690 WP 002263569.1	PTGVGKTEL	SKQLAIELFGS	EDSMIRFDMSEYMEKH	AVAKLVGAPPGYVGYDEAGQLTEKVRNRPYS	LILLDEVEKAHPD	VMHMF	573	
NTDB id 241	SP RS04015 WP 000882523.1	PTGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKH	SVAKLVGAPPGYVGYDEAGQLTEKVRHNRPYS	LILLDEVEKAHPD	VMHMF	572	
NTDB id 281	KZH43 RS03550 WP 000882517.1	PTGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKH	SVAKLVGAPPGYVGYDEAGQLTEKVRHNRPYS	LILLDEVEKAHPD	VMHMF	572	
NTDB id 245	SPD RS03860 WP 000882517.1	PTGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKH	SVAKLVGAPPGYVGYDEAGQLTEKVRHNRPYS	LILLDEVEKAHPD	VMHMF	572	
NTDB id 243	SPR RS03635 WP 000882517.1	PTGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKH	SVAKLVGAPPGYVGYDEAGQLTEKVRHNRPYS	LILLDEVEKAHPD	VMHMF	572	
NTDB id 85	BSU 00860 NP 387967.1	PTGVGKTEL	ARALAES	IFGDEES	MIRIDMSEYMEKH	STSRIVCSPPGYVGYDEGGQLTEKVRRKPY	SVVLLDETEKAHPD	VFNIL	630
NTDB id 610	V4T04 RS10165 WP 012897346.1	PTGVGKTEL	AKALADS	VFGSEDNMIRVDMSE	FMEKHSTSRILGAPPGYVGYDEGGQLTE	RVRNKPYSV	VLLDEVEKAHPD	VFNIM	639
NTDB id 287	SP RS11210 WP 001109712.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASRLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDEVEKAHPD	IFNVL	634	
NTDB id 290	KZH43 RS10025 WP 001109677.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASRLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDEVEKAHPD	IFNVL	634	
NTDB id 289	SPD RS10700 WP 001109677.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASRLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDEVEKAHPD	IFNVL	634	
NTDB id 329	STU RS10020 WP 011225298.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASRLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDETEKAHPD	IFNVL	640	
NTDB id 297	STER RS00545 WP 011680614.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASRLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDETEKAHPD	IFNIL	640	
NTDB id 75570	DK41 RS09605 WP 000020289.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASHLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDEVEKAHPD	IFNVL	637	
NTDB id 377	SMU RS09275 WP 002262344.1	PTGVGKTEL	AKALAEV	LFDDDESALIRFDMSEYMEK	FAASRLNGAPPGYVGYDEGGELTEKVRNKPYS	VLLFDEVEKAHPD	IFNIL	637	
consensus		!!!!!!	* * * ! * *	! * * *	* * ! * ! ! ! ! * ! *	* * * !	! * * ! ! ! ! ! ! ! ! * ! * !	! ! ! * ! ! * * ! * * !	! ! * ! ! ! ! ! * * * * *

NTDB id 378	SMU RS02690 WP 002263569.1	LQVLDDGR	LTDGQ	GRTVS	FKDA	IIIMTS	NAGTGK	..SEAN	VGFGA	SREG		RTNS	VL	GEL	GNFF	SPEFM	NRFD	GGIIE	FQALS	651																																																
NTDB id 241	SP RS04015 WP 000882523.1	LQVLDDGR	LTDGQ	GRTVS	FKDA	IIIMTS	NAGTGK	..TEAS	VGFGA	AAREG		RTNS	VL	GEL	GNFF	SPEFM	NRFD	GGIIE	FKALS	650																																																
NTDB id 281	KZH43 RS03550 WP 000882517.1	LQVLDDGR	LTDGQ	GRTVS	FKDA	IIIMTS	NAGTGK	..TEAS	VGFGA	AAREG		RTNS	VL	GEL	GNFF	SPEFM	NRFD	GGIIE	FKALS	650																																																
NTDB id 245	SPD RS03860 WP 000882517.1	LQVLDDGR	LTDGQ	GRTVS	FKDA	IIIMTS	NAGTGK	..TEAS	VGFGA	AAREG		RTNS	VL	GEL	GNFF	SPEFM	NRFD	GGIIE	FKALS	650																																																
NTDB id 243	SPR RS03635 WP 000882517.1	LQVLDDGR	LTDGQ	GRTVS	FKDA	IIIMTS	NAGTGK	..TEAS	VGFGA	AAREG		RTNS	VL	GEL	GNFF	SPEFM	NRFD	GGIIE	FKALS	650																																																
NTDB id 85	BSU 00860 NP 387967.1	LQVLEDGR	LTD	SKGRT	VD	FRNT	IIIMTS	VL	GA	SEL	KRN	KY	VG	FN	VQ	DET	QNH	KD	MKD	KVM	GEL	KRA	FR	PE	F	IN	R	I	D	E	I	V	F	H	S	L	E	715																														
NTDB id 610	V4T04 RS10165 WP 012897346.1	LQILDDGF	VTD	TK	GR	KV	D	FR	NT	IIIMTS	NL	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	N	I	T	A	D	Y	S	A	M	K	S	R	I	L	E	E	L	K	R	H	Y	R	P	E	F	I	N	R	I	D	E	N	I	V	F	H	S	L	E	724	
NTDB id 287	SP RS11210 WP 001109712.1	LQVLDDGV	LTD	SK	GR	KV	D	F	S	NT	IIIMTS	NL	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	D	I	R	F	D	Q	E	N	M	E	K	R	M	F	E	E	L	K	K	A	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	S	719
NTDB id 290	KZH43 RS10025 WP 001109677.1	LQVLDDGV	LTD	SK	GR	KV	D	F	S	NT	IIIMTS	NL	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	D	I	R	F	D	Q	E	N	M	E	K	R	M	F	E	E	L	K	K	A	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	S	719
NTDB id 289	SPD RS10700 WP 001109677.1	LQVLDDGV	LTD	SK	GR	KV	D	F	S	NT	IIIMTS	NL	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	D	I	R	F	D	Q	E	N	M	E	K	R	M	F	E	E	L	K	K	A	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	S	719
NTDB id 329	STU RS10020 WP 011225298.1	LQVLDDGV	LTD	SK	GR	KV	D	F	S	NT	IIIMTS	NL	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	Q	T	I	S	H	N	H	Q	A	M	Q	A	R	I	M	E	E	L	K	K	S	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	E	725
NTDB id 297	STER RS00545 WP 011680614.1	LQVLDDGV	LTD	SK	GR	KV	D	F	S	NT	IIIMTS	NL	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	Q	T	I	S	H	N	H	Q	A	M	Q	A	R	I	M	E	E	L	K	K	S	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F</					

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NTDB id 241 SP RS04015 WP 000882523.1	KDNLQIVELMLADVNRKISSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGN	734
NTDB id 281 KZH43 RS03550 WP 000882517.1	KDNLQIVELMLADVNRKISSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGN	734
NTDB id 245 SPD RS03860 WP 000882517.1	KDNLQIVELMLADVNRKISSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGN	734
NTDB id 243 SPR RS03635 WP 000882517.1	KDNLQIVELMLADVNRKISSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGN	734
NTDB id 85 BSU 00860 NP 387967.1	KKHLTEIVSLMSDQLTKRLKEQDLSIELTDAKAKVAEEGVDFEYGARPLRRAIQKHVEDRLSEELLRCNIHKQGHIVLDVEDGE	800
NTDB id 610 V4T04 RS10165 WP 012897346.1	SQETEQIVKIMSKSLTKRLAEQDTHVKLTPSAVKLIAEVGDPPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKK	809
NTDB id 287 SP RS11210 WP 001109712.1	SDHMQEVVKIMVKPLVASLTEKGIDLKQASAKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQ	804
NTDB id 290 KZH43 RS10025 WP 001109677.1	SDHMQEVVKIMVKPLVASLAEKGIDLKQASAKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQ	804
NTDB id 289 SPD RS10700 WP 001109677.1	SDHMQEVVKIMVKPLVASLAEKGIDLKQASAKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQ	804
NTDB id 329 STU RS10020 WP 011225298.1	EEQLHDIVKIMVKPLTSALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSQGTLKIGCSKDK	810
NTDB id 297 STER RS00545 WP 011680614.1	EEQLHDIVKIMVKPLTSALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSQGTLKIGCSKDK	810
NTDB id 75570 DK41 RS09605 WP 000020289.1	QDNMREVVKIMVKPLTLALKDKGMDLKFQPSALKHLAEDGYDIEMGARPLRRTIQTQVEDHLSSELLANQVKEGQVIKIGVSKGK	807
NTDB id 377 SMU RS09275 WP 002262344.1	QEDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELTLSCKLASGQTLKIGIQKEK	807
consensus	*** *!***! * ** ! **** * ** *** * ** !*!***! !!!!!***! *!! *** *! * * * * ** **	

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NTDB id 378 SMU RS02690 WP 002263569.1	IVIKASNKVETVTKATSD	753
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NTDB id 281 KZH43 RS03550 WP 000882517.1	IQIKSAKKAIEVKSSEKEK	752
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NTDB id 243 SPR RS03635 WP 000882517.1	IQIKSAKKAIEVKSSEKEK	752
NTDB id 85 BSU 00860 NP 387967.1	FVVKT TAKTN.....	810
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NTDB id 290 KZH43 RS10025 WP 001109677.1	LKFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	LKFDIA.....	810
NTDB id 329 STU RS10020 WP 011225298.1	LTFTVV.....	816
NTDB id 297 STER RS00545 WP 011680614.1	LTFTVV.....	816
NTDB id 75570 DK41 RS09605 WP 000020289.1	LKFDIAKS.....	815
NTDB id 377 SMU RS09275 WP 002262344.1	LKFDIV.....	813
consensus	* *	

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved