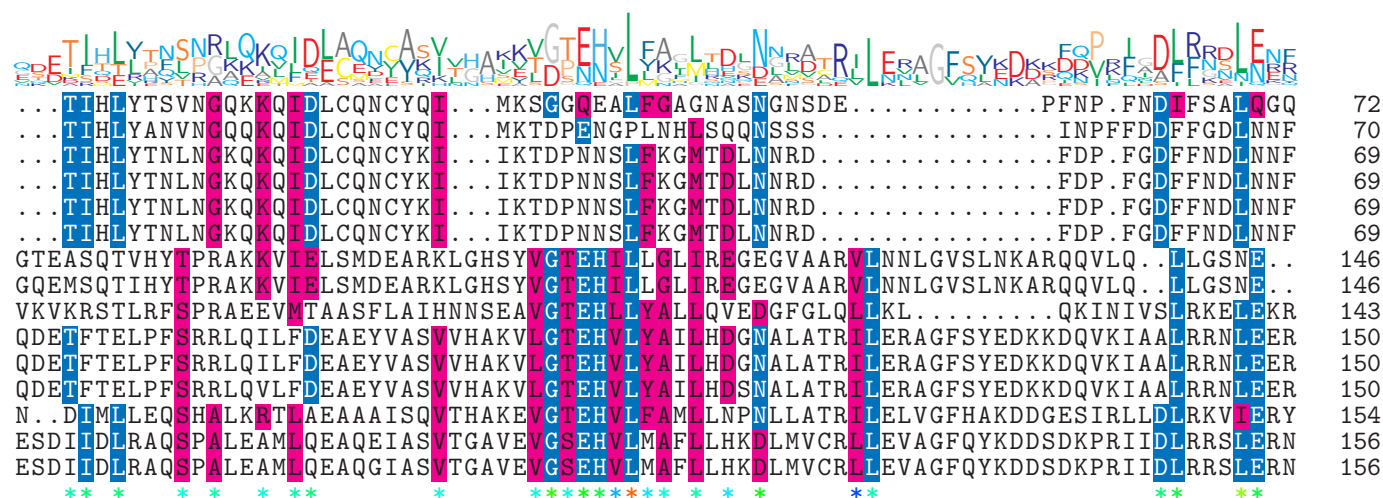
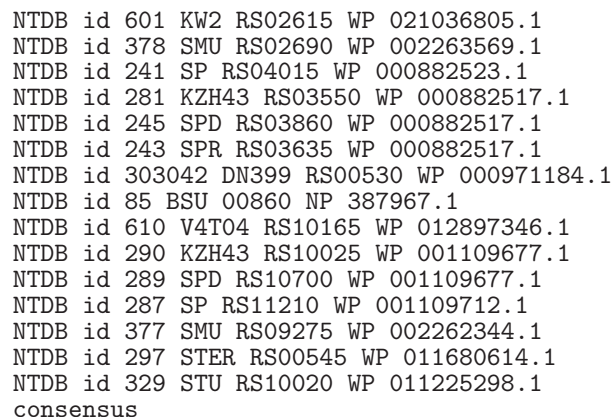


```

NTDB id 601 KW2 RS02615 WP 021036805.1
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 303042 DN399 RS00530 WP 000971184.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



logo

NTDB id 601 KW2 RS02615 WP 021036805.1	.DFNGAASNQ....TP	PTQTG	C.....	RGPRGPQN	PRAKQPK	GM	LEEF	GIN	ITES	ARRGE	IDP	VIGR	DEE	IKRV	136		
NTDB id 378 SMU RS02690 WP 002263569.1	RAFNNQDLPN....TP	PTQAG	GGNGNGGN.N	RRPGGP	QQQAS	QKPN	GLLEEF	GIN	LT	DI	ARKGE	IDP	VIGR	DEE	ITRV	143	
NTDB id 241 SP RS04015 WP 000882523.1	RPSSN..TPP....IP	PTQSG	GGYGGNGGYGS	QNRGSA	QTTP	PSQEK	GLLEEF	GIN	VT	EI	ARRGD	IDP	VIGR	RD	EI	IRV	142
NTDB id 281 KZH43 RS03550 WP 000882517.1	RPSSN..TPP....IP	PTQSG	GGYGGNGGYGS	QNRGSA	QTTP	PSQEK	GLLEEF	GIN	VT	EI	ARRGD	IDP	VIGR	RD	EI	IRV	142
NTDB id 245 SPD RS03860 WP 000882517.1	RPSSN..TPP....IP	PTQSG	GGYGGNGGYGS	QNRGSA	QTTP	PSQEK	GLLEEF	GIN	VT	EI	ARRGD	IDP	VIGR	RD	EI	IRV	142
NTDB id 243 SPR RS03635 WP 000882517.1	RPSSN..TPP....IP	PTQSG	GGYGGNGGYGS	QNRGSA	QTTP	PSQEK	GLLEEF	GIN	VT	EI	ARRGD	IDP	VIGR	RD	EI	IRV	142
NTDB id 303042 DN399 RS00530 WP 000971184.1		ASSGHQGSST	NANTPT	LD	SLAR	DLTV	VARE	NR	LDP	VIGR	SK	EI	QRV	193			
NTDB id 85 BSU 00860 NP 387967.1		TGSSA	AGTNS	NANTPT	LD	SLAR	DLTA	IA	KEDS	LDP	VIGR	SK	EI	QRV	192		
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGLKVPESKKA	VTPMSKRKMAK	C.....	VAENST	PTL	DSVSS	DLTE	EARL	GKLD	PMIGR	EAE	IDRL	205				
NTDB id 290 KZH43 RS10025 WP 001109677.1	AGWTREDLKA	LRQRHRTV	ADK.....	QNSMAN	MMGM	PQTP	SGG	LEDY	THDL	TEQARS	GKLE	VP	IGRD	KEIS	RM	218	
NTDB id 289 SPD RS10700 WP 001109677.1	AGWTREDLKA	LRQRHRTV	ADK.....	QNSMAN	MMGM	PQTP	SGG	LEDY	THDL	TEQARS	GKLE	VP	IGRD	KEIS	RM	218	
NTDB id 287 SP RS11210 WP 001109712.1	AGWTREDLKA	LRQRHRTV	ADK.....	QNSMAN	MMGM	PQTP	SGG	LEDY	THDL	TEQARS	GKLE	VP	IGRD	KEIS	RM	218	
NTDB id 377 SMU RS09275 WP 002262344.1	AGFSKEDIKA	IFEMRK	PKKVKN		SSSFS	DLMKPP	SV	TGEL	ADFT	TRDL	TELAR	QGRLE	VP	IGR	EQEIS	RM	222
NTDB id 297 STER RS00545 WP 011680614.1	AGLSKQDLKA	IHDLRK	PKKSKA		SANFAN	MMQPP	QSS	TGEL	ADYTK	DLTAL	AESGN	LDP	TI	GRDE	EIS	RM	225
NTDB id 329 STU RS10020 WP 011225298.1	AGLSKQDLKA	IHDLRK	PKKSKA		SANFAN	MMQPP	QSS	TGEL	ADYTK	DLTAL	AESGN	LDP	TI	GRDE	EIS	RM	225
consensus	*	*	*	*	**	**	!***	**	!***	*	**	!***	!!	!*			

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	IEILNRRTKNNPVL	IGEPGVGKTA	VEGLAQK	IVDGDVPQKLQ	NKEVIRLDV	VS	L	VQGTGIRGQ	FEERM	QKLMD	EIRKRN	216	
NTDB id 378 SMU RS02690 WP 002263569.1	IEILNRRTKNNPVL	IGEPGVGKTA	VEGLAQK	IVDGDVPQKLH	GKNVIRLDV	VS	L	VQGTGIRGQ	FEERM	QKLMD	EIRQRQ	223	
NTDB id 241 SP RS04015 WP 000882523.1	IEILNRRTKNNPVL	IGEPGVGKTA	VEGLAQK	IVDGDVPHKL	QGGKQVIRLDV	VS	L	VQGTGIRGQ	FEERM	QKLMD	EIRKRE	222	
NTDB id 281 KZH43 RS03550 WP 000882517.1	IEILNRRTKNNPVL	IGEPGVGKTA	VEGLAQK	IVDGDVPHKL	QGGKQVIRLDV	VS	L	VQGTGIRGQ	FEERM	QKLMD	EIRKRE	222	
NTDB id 245 SPD RS03860 WP 000882517.1	IEILNRRTKNNPVL	IGEPGVGKTA	VEGLAQK	IVDGDVPHKL	QGGKQVIRLDV	VS	L	VQGTGIRGQ	FEERM	QKLMD	EIRKRE	222	
NTDB id 243 SPR RS03635 WP 000882517.1	IEILNRRTKNNPVL	IGEPGVGKTA	VEGLAQK	IVDGDVPHKL	QGGKQVIRLDV	VS	L	VQGTGIRGQ	FEERM	QKLMD	EIRKRE	222	
NTDB id 303042 DN399 RS00530 WP 000971184.1	IEVLSRRTKNNPVL	IGEPGVGKTA	IAEGLAQ	QIVNNE	VPETLRDKR	VM	T	LD	MGTVVAGTKYR	GEFEDRL	KKVMDEIRQAG	273	
NTDB id 85 BSU 00860 NP 387967.1	IEVLSRRTKNNPVL	IGEPGVGKTA	IAEGLAQ	QIVNNE	VPETLRDKR	VM	T	LD	MGTVVAGTKYR	GEFEDRL	KKVMDEIRQAG	272	
NTDB id 610 V4T04 RS10165 WP 012897346.1	IHILSRRTKNNPVL	VGEPGVGKSA	IIIEGLAQ	RIVNGQVPI	GLMNSR	IMALN	MA	T	VVAGTKFRGE	FEDRLTA	IVEEVSSDP	285	
NTDB id 290 KZH43 RS10025 WP 001109677.1	IQILSRKTKNNPVL	VGDAGVGKTAL	ALGLAQRIAS	GDVPAEMAK	MRVLELDLM	N	V	VAGTRFRG	DFEERM	N	IIKDIEEDG	298	
NTDB id 289 SPD RS10700 WP 001109677.1	IQILSRKTKNNPVL	VGDAGVGKTAL	ALGLAQRIAS	GDVPAEMAK	MRVLELDLM	N	V	VAGTRFRG	DFEERM	N	IIKDIEEDG	298	
NTDB id 287 SP RS11210 WP 001109712.1	IQILSRKTKNNPVL	VGDAGVGKTAL	ALGLAQRIAS	GDVPAEMAK	MRVLELDLM	N	V	VAGTRFRG	DFEERM	N	IIKDIEEDG	298	
NTDB id 377 SMU RS09275 WP 002262344.1	VQILSRKTKNNPVL	VGDAGVGKTAL	AYGLAQRI	VDSAVPFEL	ADMKVLELD	M	S	VVAGTRFRG	DFEERM	N	IIADIEADG	302	
NTDB id 297 STER RS00545 WP 011680614.1	IQVLSRKTNNPVL	VGEAGVGKTAL	ALGLAQRIAS	GEVPFEL	ADMRI	LELD	M	S	VVAGTRFRG	DFEERM	QII	DEIADG	305
NTDB id 329 STU RS10020 WP 011225298.1	IQVLSRKTNNPVL	VGEAGVGKTAL	ALGLAQRIAS	GEVPFEL	ADMRI	LELD	M	S	VVAGTRFRG	DFEERM	QII	DEIADG	305
consensus	*	*!***!!!!!!*	*!***!!!!*	*!!!!!!*	***	*	***	!*****	!!!!!!*	!!!!!!*	*****		

```

NTDB id 601 KW2 RS02615 WP 021036805.1
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 303042 DN399 RS00530 WP 000971184.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



```

NTDB id 601 KW2 RS02615 WP 021036805.1
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 303042 DN399 RS00530 WP 000971184.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

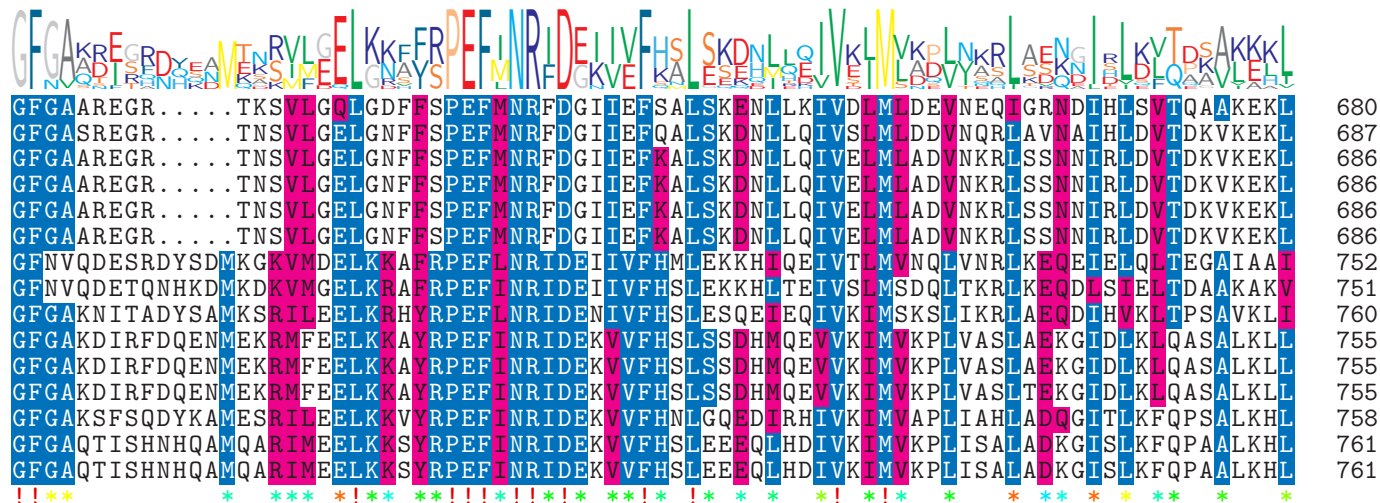
```



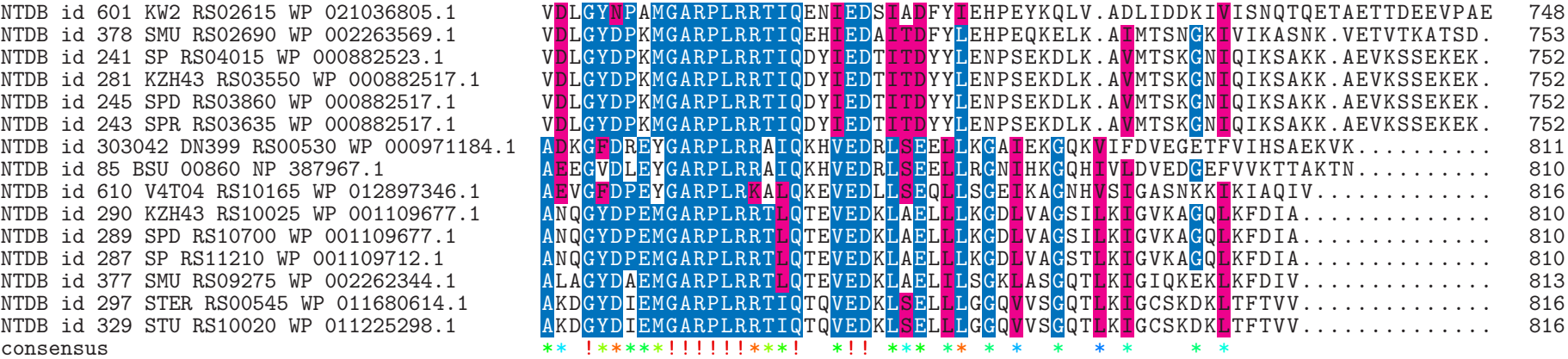
```

NTDB id 601 KW2 RS02615 WP 021036805.1
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 303042 DN399 RS00530 WP 000971184.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



logo



X non conserved
X similar
X ≥ 50% conserved