

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	MTCQNCNINEA.....	TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MTCQNCNINEA.....	TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MTCQNCNINDS.....	TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MTCQNCNINDS.....	TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MTCQNCNINDS.....	TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MTCQNCNINDS.....	TI	13
NTDB id 94777 AOD67 RS00470 WP 000971179.1	..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGLAAKALIALGLSPEKVQKEVEALIG.....RGTEAS	75	75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVVKVR	77	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN...DI	79	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSEDI	81	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSEDI	81	81
consensus	*** * * * * *		

logo

NTDB	id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQI...MKS	GGQ	EAL	FG	AGNAS	NGNSDE		PFNP	FND	I	FSA	L	GG	DFNGAASNQ	81
NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQI...MKTDP	P	ENG	PLNH	ISQQN	SSS		INPFFD	D	FFGD	LNN	FRAFNN	QDLPN	80	
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	SN..TPP	77	
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	SN..TPP	77	
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	SN..TPP	77	
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	N	NSL	FKGM	TDLN	NRD		FDP	FG	DFFND	LNN	FRPSS	SN..TPP	77	
NTDB	id	94777	AOD67	RS00470	WP	000971179.1	QTVHYTPRAKKVIELSMDEARKLGHSYV	GTEH	ILL	LGL	IRE	GEGVAARV	LNNLGVSLNKARQQVLQ..	LLGSNE						146	
NTDB	id	85	BSU	O0860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYV	GTEH	ILL	LGL	IRE	GEGVAARV	LNNLGVSLNKARQQVLQ..	LLGSNE						146	
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSPRAEEVMTAASFLAIHNNSEAV	GTEH	LYA	LLQ	VED	GFGLQL	KL		QKINIVS	LRKE	LEKRT	GLKVPESK	153		
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLLQILFDEAEYVASV	VHAKVL	GTEH	VLYA	ILHD	GNALATRI	LERAGFSYEDKKDQVKIAA	LRN	LE	ERAGW	TREDLKA	160			
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLLQILFDEAEYVASV	VHAKVL	GTEH	VLYA	ILHD	GNALATRI	LERAGFSYEDKKDQVKIAA	LRN	LE	ERAGW	TREDLKA	160			
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRLLQILFDEAEYVASV	VHAKVL	GTEH	VLYA	ILHD	GNALATRI	LERAGFSYEDKKDQVKIAA	LRN	LE	ERAGW	TREDLKA	160			
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEEAAISQVTHAKEV	GTEH	VLF	AMLL	NPNLL	ATRI	LELVGFHAKDDGESIRLL	DL	RKV	TERYAGF	SKEDIKA	164			
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEV	GSEH	VLM	AFLL	LHKD	LMVCRLE	LEVAGFQYKDDSDKPRIID	DL	RRL	LERNAGL	SKQDLKA	166			
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAQGIASVTGAVEV	GSEH	VLM	AFLL	LHKD	LMVCRLE	LEVAGFQYKDDSDKPRIID	DL	RRL	LERNAGL	SKQDLKA	166			
consensus							*	*	*	*	*	*	*****	*	*	*	*	*	*		

logo

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 94777 AOD67 RS00470 WP 000971179.1
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



151
158
157
157
157
157
208
207
220
233
233
233
237
240
240

logo

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 94777 AOD67 RS00470 WP 000971179.1
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

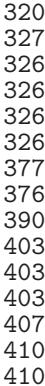


236
243
242
242
242
242
292
291
305
318
318
318
322
325
325

```

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 94777 AOD67 RS00470 WP 000971179.1
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

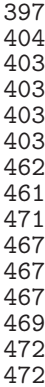
```



```

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 94777 AOD67 RS00470 WP 000971179.1
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	ISNQTQETAETTDEEVP	AE	748
NTDB	id	378	SMU	RS02690	WP	002263569.1	VIKASNK.VETVTKATSD.		753
NTDB	id	241	SP	RS04015	WP	000882523.1	QIKSAKK.AEVKSSEKEK.		752
NTDB	id	281	KZH43	RS03550	WP	000882517.1	QIKSAKK.AEVKSSEKEK.		752
NTDB	id	245	SPD	RS03860	WP	000882517.1	QIKSAKK.AEVKSSEKEK.		752
NTDB	id	243	SPR	RS03635	WP	000882517.1	QIKSAKK.AEVKSSEKEK.		752
NTDB	id	94777	AD67	RS00470	WP	000971179.1	VIHSAEKVK.....		811
NTDB	id	85	BSU	00860	NP	387967.1	VVKTTAKTN.....		810
NTDB	id	610	V4T04	RS10165	WP	012897346.1	KIAQIV.....		816
NTDB	id	290	KZH43	RS10025	WP	001109677.1	KFDIA.....		810
NTDB	id	289	SPD	RS10700	WP	001109677.1	KFDIA.....		810
NTDB	id	287	SP	RS11210	WP	001109712.1	KFDIA.....		810
NTDB	id	377	SMU	RS09275	WP	002262344.1	KFDIV.....		813
NTDB	id	297	STER	RS00545	WP	011680614.1	TFTVV.....		816
NTDB	id	329	STU	RS10020	WP	011225298.1	TFTVV.....		816

consensus

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