

NTDB id	1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIG....PRTVLKLQKRPDLNLMFQLSSVDLEEAGLP	SWLAQTIKNFDPDFIKTDLNLWSSS	73					
NTDB id	599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKGAMTNLGVNKLLKFFRKYDRKISLRQM.	GQVAQVK	SIPNFIEQYKNQDVKKLRADYK	KFS..	71			
NTDB id	525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	AVFMERYFQIDDAHLEKEFK	KTP..	72			
NTDB id	267 KZH43 RS05590 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72			
NTDB id	226 SPD RS05990 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72			
NTDB id	192 SPR RS05715 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72			
NTDB id	157 SP RS06205 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72			
NTDB id	497 SM12261 RS05565 WP 000705318.1	MKITNYE....	IYKLKKSGLTNQQVLA	VLEYGENVDQELLGDI..	A	EISGCRNP	AVFMERYFQIDDAHLEKEFQKFP..	72		
NTDB id	977038 MGAS37859 RS04535 WP 010922314.1	..MNHF.....	LYKLKKA	AGLTNKNILN	TLDYQKHQEKSLSRDM.	AVVSGCKHP	SHFIEAYKQLDIGNLKMEFQKFP..	70		
NTDB id	407 SMU RS04605 WP 002262865.1	..MDNFQ....	LFLKLLKAGLTN	NILN	LIDYEERTQSLSRDM.	AVVSKNK	KPLIFMEHYK	NLSKALRKEFNRF..	70	
consensus		*****	*****!	*!*!*****	*****	*****	*****	*****	*****	*****

NTDB id 1250 GC085 RS13065 WP 027219989.1	ENHHIL	TWDS	SPY	YPAL	LKEI	ADPF	FI	LYAK	GELSA	LTQP	SL	AI	VGSR	NA	SVT	G	NEN	ARAF	SREI	SRHG	V	SI	VS	GLA	L	GID	153																																															
NTDB id 599 KW2 RS05940 WP 021037268.1		SFSI	LDL	LYP	ERL	REI	YN	PPV	L	IFY	QGN	IDL	LK	NP	KL	A	FV	GS	R	LAG	Q	SGI	K	SV	Q	K	IV	TEL	N	Q	..	SFT	I	V	S	G	L	A	K	G	I	D	146																															
NTDB id 525 SMSK321 RS06295 WP 000705298.1		SFSI	LDL	CYP	PWL	SEI	YD	AP	V	L	LFY	K	GN	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	S	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	N	..	EL	V	I	V	S	G	L	A	K	G	I	D	147														
NTDB id 267 KZH43 RS05590 WP 000705306.1		SFSI	LDL	CYP	PWL	SEI	YD	AP	V	L	LFY	K	GN	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	N	..	EL	V	I	V	S	G	L	A	K	G	I	D	147														
NTDB id 226 SPD RS05990 WP 000705306.1		SFSI	LDL	CYP	PWL	SEI	YD	AP	V	L	LFY	K	GN	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	N	..	EL	V	I	V	S	G	L	A	K	G	I	D	147														
NTDB id 192 SPR RS05715 WP 000705306.1		SFSI	LDL	CYP	PWL	SEI	YD	AP	V	L	LFY	K	GN	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	N	..	EL	V	I	V	S	G	L	A	K	G	I	D	147														
NTDB id 157 SP RS06205 WP 000705306.1		SFSI	LDL	CYP	PWL	SEI	YD	AP	V	L	LFY	K	GN	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	N	..	EL	V	I	V	S	G	L	A	K	G	I	D	147														
NTDB id 497 SM12261 RS05565 WP 000705318.1		SFSI	LDL	CYP	PWL	SEI	YD	AP	V	L	LFY	K	GN	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	N	..	EL	V	I	V	S	G	L	A	K	G	I	D	147														
NTDB id 977038 MGAS37859 RS04535 WP 010922314.1		SI	S	I	L	D	K	H	P	M	A	L	K	E	I	Y	N	P	P	V	L	L	F	Q	G	N	L	D	L	L	E	K	P	K	L	A	I	V	G	S	R	R	S	S	D	T	G	V	K	S	V	R	K	I	L	K	E	L	G	N	..	RF	V	I	V	S	G	L	A	R	G	I	D	145
NTDB id 407 SMU RS04605 WP 002262865.1		SL	S	I	L	D	K	E	Y	P	L	E	L	K	N	I	Y	N	P	P	V	L	L	F	Q	G	N	L	D	L	L	A	R	P	K	L	A	I	V	G	S	R	N	A	S	Q	M	G	V	A	A	V	K	K	I	I	Q	D	L	S	K	..	Q	F	V	I	S	G	L</					

[illegible]

```

NTDB id 1250 GCO85 RS13065 WP 027219989.1
NTDB id 599 KW2 RS05940 WP 021037268.1
NTDB id 525 SMSK321 RS06295 WP 000705298.1
NTDB id 267 KZH43 RS05590 WP 000705306.1
NTDB id 226 SPD RS05990 WP 000705306.1
NTDB id 192 SPR RS05715 WP 000705306.1
NTDB id 157 SP RS06205 WP 000705306.1
NTDB id 497 SM12261 RS05565 WP 000705318.1
NTDB id 977038 MGAS37859 RS04535 WP 010922314.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

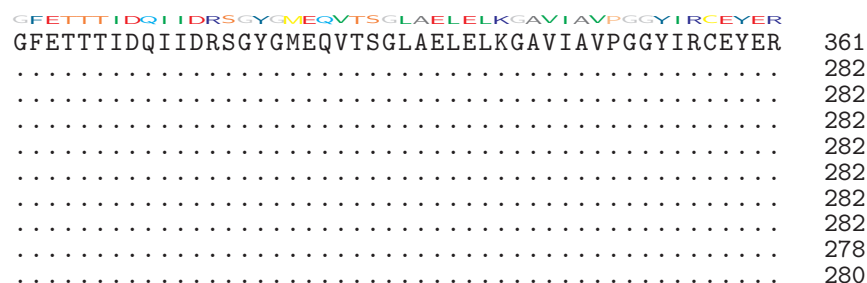
```



```

NTDB id 1250 GCD85 RS13065 WP 027219989.1
NTDB id 599 KW2 RS05940 WP 021037268.1
NTDB id 525 SMSK321 RS06295 WP 000705298.1
NTDB id 267 KZH43 RS05590 WP 000705306.1
NTDB id 226 SPD RS05990 WP 000705306.1
NTDB id 192 SPR RS05715 WP 000705306.1
NTDB id 157 SP RS06205 WP 000705306.1
NTDB id 497 SM12261 RS05565 WP 000705318.1
NTDB id 977038 MGAS37859 RS04535 WP 010922314.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

```



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