

NTDB id	1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIG....PRTVLKLQKRPDLNLMFQLSSV	DLEEAGLP	SWLAQTIKNFDPDFIKTDLNLWSSS	73
NTDB id	599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKGAMTNLGVNKLLKFFRKYDRKISLRQM.	GQVAQVK	SIPNFIEIQYNQDVKKLRADYKKSFS..	71
NTDB id	525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	PAVFMEFYFQIDDAHLEKEFKKTP..	72
NTDB id	267 KZH43 RS05590 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	PAVFMEFYFQIDDAHLSEKFQKFP..	72
NTDB id	226 SPD RS05990 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	PAVFMEFYFQIDDAHLSEKFQKFP..	72
NTDB id	192 SPR RS05715 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	PAVFMEFYFQIDDAHLSEKFQKFP..	72
NTDB id	157 SP RS06205 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNP	PAVFMEFYFQIDDAHLSEKFQKFP..	72
NTDB id	497 SM12261 RS05565 WP 000705318.1	MKITNYE....	IYKLKKSGLTNQQVLAVLEYGENVDQELLGDI..	AESGCRNP	PAVFMEFYFQIDDAHLEKEFKQFP..	72
NTDB id	977094 MGAS37857 RS04535 WP 010922314.1	..MNHF.....	LYKLKKAAGLTNKNILNILDYQKHQEKSLSRDM.	AVVSGCKHP	SHFIEAYKQLDIGNLKMEFKQFP..	70
NTDB id	407 SMU RS04605 WP 002262865.1	..MDNFQ....	LFLKLLKAGLTNLNILNIIDYEERTQKSLSRDM.	AVVSKNK	KPLIFMEHYKNDLSKALRKEFNRFPP..	70
consensus		*****	*****!*****	*****	*****	*****

NTDB id 1250 GC085 RS13065 WP 027219989.1	ENHHIL	TWDS	SPY	YPAL	LKEI	ADPF	FI	LYAK	GEL	SA	LTQ	PSL	AI	VG	SR	NA	SVT	G	NE	NA	RA	FS	RE	I	SR	HG	V	S	I	V	S	G	L	A	K	G	I	D	153																																
NTDB id 599 KW2 RS05940 WP 021037268.1		SFSI	LD	DD	LY	PER	L	REI	YN	PP	V	L	I	F	Y	Q	G	N	I	D	L	L	K	N	P	K	L	A	F	V	G	S	R	L	A	G	Q	S	G	I	K	S	V	Q	K	I	V	T	E	L	N	Q	..	S	F	T	I	V	S	G	L	A	K	G	I	D	146				
NTDB id 525 SMSK321 RS06295 WP 000705298.1		SFSI	LD	DD	CY	PW	D	L	S	EI	YD	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	G	S	R	S	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147		
NTDB id 267 KZH43 RS05590 WP 000705306.1		SFSI	LD	DD	CY	PW	D	L	S	EI	YD	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147		
NTDB id 226 SPD RS05990 WP 000705306.1		SFSI	LD	DD	CY	PW	D	L	S	EI	YD	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147		
NTDB id 192 SPR RS05715 WP 000705306.1		SFSI	LD	DD	CY	PW	D	L	S	EI	YD	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147		
NTDB id 157 SP RS06205 WP 000705306.1		SFSI	LD	DD	CY	PW	D	L	S	EI	YD	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147		
NTDB id 497 SM12261 RS05565 WP 000705318.1		SFSI	LD	DD	CY	PW	D	L	S	EI	YD	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147		
NTDB id 977094 MGAS37857 RS04535 WP 010922314.1		S	I	S	I	L	D	K	H	P	M	A	L	K	E	I	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	..	R	F	V	I	V	S	G	L	A	R

[illegible]

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NTDB id 1250 GC085 RS13065 WP 027219989.1	SGSLITARMALQNRDVLAIIPGSIHNP LARGCHYL IQGAKLVTSVADVLDDELKIEHHQFTSNKPIFSLASGKENLVKFI	313
NTDB id 599 KW2 RS05940 WP 021037268.1	SGSLITCERALEEGRDIFAIPGNIA DGTSDGCNHLIQGAKLVYQAQDILEEYLYN	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	SGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	SGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 226 SPD RS05990 WP 000705306.1	SGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 192 SPR RS05715 WP 000705306.1	SGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 157 SP RS06205 WP 000705306.1	SGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	SGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF	282
NTDB id 977094 MGAS37857 RS04535 WP 010922314.1	SGSLITC IIGIEEGRDIFAVPGNILDGKSEGC LQLIKEGATCVTSGMDILSEY	278
NTDB id 407 SMU RS04605 WP 002262865.1	SGSLITCERAMEEGRDVFVMPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFN	280
consensus	!!!!!!!!*****!*****!*!******!*!******!*!******!*!******	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	GFETTTIDQI IIDRSGYGM EQVTSGLAELELKGAVIAVPGGYIRCEYER	361
NTDB id 599 KW2 RS05940 WP 021037268.1		282
NTDB id 525 SMSK321 RS06295 WP 000705298.1		282
NTDB id 267 KZH43 RS05590 WP 000705306.1		282
NTDB id 226 SPD RS05990 WP 000705306.1		282
NTDB id 192 SPR RS05715 WP 000705306.1		282
NTDB id 157 SP RS06205 WP 000705306.1		282
NTDB id 497 SM12261 RS05565 WP 000705318.1		282
NTDB id 977094 MGAS37857 RS04535 WP 010922314.1		278
NTDB id 407 SMU RS04605 WP 002262865.1		280
consensus		

- X non conserved
- X similar
- X ≥ 50% conserved