

NTDB id 1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIG....PRTVLKQLQRWPDNL	LMFQLSSV	DLEEAGLP	SWLAQTIKNFDPDF	IKTDLNWLSSS	73
NTDB id 599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKGAMTNLGV	NKLKFFRKYDRKISLRQM.	GQVAQVK	SIPNFIEQYKNQDVKKLRADY	KKFS..	71
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	..ADISGCRNP	AVFMERYFQIDDAHL	EKEFKKI	P..	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....	IYKLKKSGLTNQQI	VLA VLEYGENVDQELLGDI.	A	EISGCRNP	AVFMERYFQIDDAHLEKEFQKFP	72
NTDB id 976926 MGAS38289 RS04470 WP 010922314.1	..MNHF.....	LYKLKKAAGLTNKNILN	TLDYQKHQEKSLSRDM.	AVVSGCKHP	SHFTIAYKQLDIGNLKMEFKQFP	..	70
NTDB id 407 SMU RS04605 WP 002262865.1	..MDNFQ....	LFLKLLKAGLTNLNILN	LIDYEERTQKLSLRDM.	AVVSKNK	KPLIFMEHYKNDLSKALRKEFNRF	..	70
consensus	*****	*****!*****	*****	*****	*****	*****	

NTDB id 1250 GC085 RS13065 WP 027219989.1	ENHHIL	TWDS	PYPAL	LKEI	ADPP	FI	LYAK	GE	LSA	LTQ	PSLA	IV	GS	RNAS	SVT	G	NEN	AR	AF	S	R	E	I	SR	HG	V	S	I	V	S	G	L	A	L	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	P	W	D	L	S	EI	Y	D	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	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	P	W	D	L	S	EI	Y	D	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	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	P	W	D	L	S	EI	Y	D	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	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	P	W	D	L	S	EI	Y	D	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	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	P	W	D	L	S	EI	Y	D	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	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	P	W	D	L	S	EI	Y	D	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	N	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147
NTDB id 976926 MGAS38289 RS04470 WP 010922314.1		S	I	S	I	L	D	K	H	P	M	A	L	K	EI	YN	PP	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</			

NTDB id 1250 GC085 RS13065 WP 027219989.1	AHAHLGCEGGGKTIIVLGTGIDCIYPRRHLKLAEQITENGLLLSEFPLKSPFIAGHFPLRNRIISGLSLCLVIEAAIK	233
NTDB id 599 KW2 RS05940 WP 021037268.1	TASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPERNRIIAGLSRGVVVEAKLR	226
NTDB id 525 SMSK321 RS06295 WP 000705298.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANRLQDYISNDHLVLSEYGPGEQPLKFHFPPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 267 KZH43 RS05590 WP 000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANRLQDYIGNDHLVLSEYGPGEQPLKFHFPPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 226 SPD RS05990 WP 000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANRLQDYIGNDHLVLSEYGPGEQPLKFHFPPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 192 SPR RS05715 WP 000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANRLQDYIGNDHLVLSEYGPGEQPLKFHFPPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 157 SP RS06205 WP 000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANRLQDYIGNDHLVLSEYGPGEQPLKFHFPPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 497 SM12261 RS05565 WP 000705318.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANRLQDYIGNDHLVLSEYGPGEQPLKFHFPPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 976926 MGAS38289 RS04470 WP 010922314.1	TSAHLACLKNGGQTIIIGTGDLRFYPKENRELQTFLGKNHLVLTIEYGPGEALSYPHPERNRIIAGLSRGILVVEAKNR	225
NTDB id 407 SMU RS04605 WP 002262865.1	TAAHLASLKSGGATIAVIGTGLDVHYPKENRRRLQDYIAKNHLLSEYEQAQSQPLKYHFPERNRIIAGLSQGVVMVAEAKIR	225
consensus	*****!*****!!*****!*****!*****!*****!*****!*****!*****!*****!*****!	

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NTDB id 1250 GCO85 RS13065 WP 027219989.1
NTDB id 599 KW2 RS05940 WP 021037268.1
NTDB id 525 SMSK321 RS06295 WP 000705298.1
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NTDB id 226 SPD RS05990 WP 000705306.1
NTDB id 192 SPR RS05715 WP 000705306.1
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NTDB id 497 SM12261 RS05565 WP 000705318.1
NTDB id 976926 MGAS38289 RS04470 WP 010922314.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

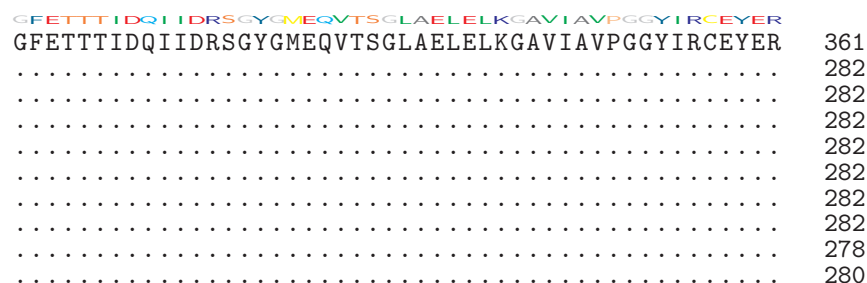


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NTDB id 1250 GCD85 RS13065 WP 027219989.1
NTDB id 599 KW2 RS05940 WP 021037268.1
NTDB id 525 SMSK321 RS06295 WP 000705298.1
NTDB id 267 KZH43 RS05590 WP 000705306.1
NTDB id 226 SPD RS05990 WP 000705306.1
NTDB id 192 SPR RS05715 WP 000705306.1
NTDB id 157 SP RS06205 WP 000705306.1
NTDB id 497 SM12261 RS05565 WP 000705318.1
NTDB id 976926 MGAS38289 RS04470 WP 010922314.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

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