

NTDB id 1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIG....PRTVLKLQKRWPDNL	LMFQLSSV	DLEEAGLP	SWLAQTIKNFDPDF	IKTDLNWLSSS	73
NTDB id 599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKGAMTNLGV	NKLLKFFRKYDRKISLRQM.	GQVAQVK	SIPNFIEQYKNQDVKKLRADY	KKFS..	71
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	.	ADISGCRNP	PAVFMEFYQIDDAHLEKEFKKIP.	..	72
NTDB id 267 KZH43 RS05590 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	.	ADISGCRNP	PAVFMEFYQIDDAHLSKEFQKFP.	..	72
NTDB id 226 SPD RS05990 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	.	ADISGCRNP	PAVFMEFYQIDDAHLSKEFQKFP.	..	72
NTDB id 192 SPR RS05715 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	.	ADISGCRNP	PAVFMEFYQIDDAHLSKEFQKFP.	..	72
NTDB id 157 SP RS06205 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	.	ADISGCRNP	PAVFMEFYQIDDAHLSKEFQKFP.	..	72
NTDB id 497 SM12261 RS05565 WP 000705318.1	MKITNYE....	IYKLKKSGLTNQQVLAIVLEYGENVDQELLGDI.	.	A	EISGCRNP	PAVFMEFYQIDDAHLEKEFQKFP.	72
NTDB id 976814 MGAS38343 RS04550 WP 010922314.1	..MNHF.....	LYKLKKAAGLTNKNLNILN	TLDYQKHQEKSLSRDM.	AVVSGCKHP	SHFTIAYKQLDIGNLKMEFKFP.	..	70
NTDB id 407 SMU RS04605 WP 002262865.1	..MDNFQ....	LFLKKKAGLTNLNILN	LIDYEERTQKSLSRDM.	AVVSKNK	KPLIFMEHYKNLDSKALRKEFNRF.	..	70
consensus	*****	*****!*****	*****	*****	*****	*****	

NTDB id 1250 GC085 RS13065 WP 027219989.1	ENHHIL	TWDS	SPY	YPAL	LKEI	ADPP	FI	LYAK	GELSA	LTQP	SL	ATV	GSRNA	SVT	G	NEN	ARAF	SRE	ISR	HG	V	S	IV	SGLA	L	GID	153																																																		
NTDB id 599 KW2 RS05940 WP 021037268.1		SFSI	LD	DD	LY	PER	L	REI	YN	PP	V	L	IF	YQ	GN	I	DL	LK	NP	KL	A	F	V	G	S	R	LAG	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	DL	SEI	YD	AP	V	L	L	F	Y	K	G	N	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	..	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	DL	SEI	YD	AP	V	L	L	F	Y	K	G	N	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	..	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	DL	SEI	YD	AP	V	L	L	F	Y	K	G	N	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	..	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	DL	SEI	YD	AP	V	L	L	F	Y	K	G	N	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	..	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	DL	SEI	YD	AP	V	L	L	F	Y	K	G	N	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	..	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	DL	SEI	YD	AP	V	L	L	F	Y	K	G	N	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	..	E	L	V	I	V	S	G	L	A	K	G	I	D	147											
NTDB id 976814 MGAS38343 RS04550 WP 010922314.1		S	I	S	I	L	D	K	H	Y	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	T	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	K	G	I	D	145
NTDB id 407 SMU RS04605 WP 002262865.1		S	L	S	I	L	D	K	E	Y	P	L	K	N	I	Y	N	P	P	V																																																									

NTDB id 1250 GC085 RS13065 WP 027219989.1	AHAHLGCEGGGKTIIVLGTGIDCIYPRRHLKLAEEQITENGLLLSEFPLKSPPIAGHFPLRNRRIISGLSLCLIVIEAAIK	233
NTDB id 599 KW2 RS05940 WP 021037268.1	TASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQVLVSEYSLGEKPLKVHFPERNRIIAGLSRGVVVVEAKLR	226
NTDB id 525 SMSK321 RS06295 WP 000705298.1	TAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 267 KZH43 RS05590 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 226 SPD RS05990 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 192 SPR RS05715 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 157 SP RS06205 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 497 SM12261 RS05565 WP 000705318.1	TAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id 976814 MGAS38343 RS04550 WP 010922314.1	TSAHLACLKNGGQTIAITIGTGLDRFYPKENRELQTFLGKNNHLVLT EYGPGEALSYHFPERNRIIAGLSRGILVVEAKNR	225
NTDB id 407 SMU RS04605 WP 002262865.1	TAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLSEYEAGSQPLKVHFPERNRIIAGLSQGVIVAEAKIR	225
consensus	*****	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	313
NTDB id 599 KW2 RS05940 WP 021037268.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 226 SPD RS05990 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 192 SPR RS05715 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 157 SP RS06205 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 976814 MGAS38343 RS04550 WP 010922314.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	278
NTDB id 407 SMU RS04605 WP 002262865.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	280
consensus	!!!!!!*****!***!!*****!!*!*****!!*!!*****!!*!!*!!*****!!*!!*!!*	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	361
NTDB id 599 KW2 RS05940 WP 021037268.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 226 SPD RS05990 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 192 SPR RS05715 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 157 SP RS06205 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 976814 MGAS38343 RS04550 WP 010922314.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	278
NTDB id 407 SMU RS04605 WP 002262865.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	280
consensus		

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