

NTDB id 1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIGP....RTVLKLQKRPDLN	LMFQISSVDIEEAGLPSWLAQTIKNFDPDFIKTDLNWLSSSENHHI	78
NTDB id 599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKACMTNLGVNKLKFFRKYDRKISLRQM..	GQVAQVKSIPNFIEQYKNQDVKKLRADYKKFFSS.....	72
NTDB id 407 SMU RS04605 WP 002262865.1	..MDNFQ....	LFKLKKAGLTNLNIIINTIDYEERTQKSLSLRDM..	AVVSKNKKPLTFMEHYKNLDSKALRKEFNRFPS.....	71
NTDB id 29076 SGO RS05885 WP 012000600.1	..MKNYD....	IYKMKHAGLTNGQVLNVLRYVENKEKELSLRDI..	AVVSECRNPALFMERYKQIDDDFLKKSFEFPPS.....	71
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMERYFQIDDAHLEKEFKKIPIS.....	73
NTDB id 497 SM12261 RS05565 WP 000705318.1	MKITNYE....	IYKLKKSGLTNQQVLAVLEYGENVDQELLGDI..	ADISGCRNPAVFMERYFQIDDAHLEKEFKQKFPS.....	73
NTDB id 267 KZH43 RS05590 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMERYFQIDDAHLKSEFKQKFPS.....	73
NTDB id 226 SPD RS05990 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMERYFQIDDAHLKSEFKQKFPS.....	73
NTDB id 192 SPR RS05715 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMERYFQIDDAHLKSEFKQKFPS.....	73
NTDB id 157 SP RS06205 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMERYFQIDDAHLKSEFKQKFPS.....	73
consensus	***!!**	*****!!*!*****	*****!!*****	*****!!*****

NTDB id	1250	GC085	RS13065	WP	027219989.1	L	T	W	D	S	P	Y	P	A	L	K	E	I	A	D	P	F	F	I	L	Y	A	K	G	E	L	S	A	L	T	Q	P	S	L	A	V	G	S	R	N	A	S	V	T	C	N	E	N	A	R	A	F	S	R	E	I	S	R	H	G	V	S	I	V	S	G	L	A	L	G	I	D	A	H	A	H	L	C	L	E	G		163				
NTDB id	599	KW2	RS05940	WP	021037268.1	F	S	I	L	D	D	L	Y	P	E	R	L	R	E	I	Y	N	P	P	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	T	A	S	H	L	S	A	I	K	T		156
NTDB id	407	SMU	RS04605	WP	002262865.1	L	S	I	L	D	K	E	Y	P	L	E	L	K	N	I	Y	N	P	P	V	L	L	F	Y	Q	G	D	L	L	L	A	R	P	K	L	A	V	V	G	S	R	N	A	S	Q	M	G	V	A	A	V	K	I	I	Q	D	L	S	.	K	Q	F	V	I	T	S	G	L	A	R	G	I	D	T	A	A	H	L	A	S	I	K	S		155		
NTDB id	29076	SGO	RS05885	WP	012000600.1	F	S	I	L	D	E	I	Y	P	W	D	L	S	E	I	Y	N	P	P	V	L	L	F	Y	Q	G	N	I	D	L	L	E	L	P	K	V	A	V	V	G	S	R	D	S	S	K	L	C	N	Q	S	V	Q	K	I	K	E	L	N	.	N	E	L	T	I	V	S	G	L	A	R	G	I	D	T	A	A	H	M	A	A	L	Q	N		155	
NTDB id	525	SMSK321	RS06295	WP	000705298.1	F	S	I	L	D	D	C	P	W	D	L	S	E	I	Y	D	A	P	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	Q	G	L	E	.	N	E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157		
NTDB id	497	SM12261	RS05565	WP	000705318.1	F	S	I	L	D	D	C	P	W	D	L	S	E	I	Y	D	A	P	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	V	I	Q	G	L	E	.	N	E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157	
NTDB id	267	KZH43	RS05590	WP	000705306.1	F	S	I	L	D	D	C	P	W	D	L	S	E	I	Y	D	A	P	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	V	I	Q	G	L	E	.	N	E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157	
NTDB id	226	SPD	RS05990	WP	000705306.1	F	S	I	L	D	D	C	P	W	D	L	S	E	I	Y	D	A	P	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	V	I	Q	G	L	E	.	N	E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157	
NTDB id	192	SPR	RS05715	WP	000705306.1	F	S	I	L	D	D	C	P	W	D																																																																													

NTDB id	1250 GC085 RS13065 WP 027219989.1	G	G	K	T	I	A	V	L	G	T	I	D	C	I	Y	P	R	R	H	L	K	L	A	E	Q	T	E	N	G	L	L	S	F	P	L	K	S	P	I	A	G	H	F	L	R	N	R	I	S	G	L	S	L	C	I	E	V	I	E	A	A	K	S	G	S	L	I	T	A	R	M	A	L	E	Q	N	R							
NTDB id	599 KW2 RS05940 WP 021037268.1	K	T	P	T	I	A	V	I	G	T	G	L	D	I	F	Y	P	L	E	N	R	K	I	Q	E	Y	L	A	K	Y	Q	L	V	L	S	E	Y	S	L	G	E	K	P	L	K	Y	H	F	P	E	R	N	R	I	I	A	G	L	S	R	G	V	V	V	E	A	K	L	R	S	G	S	L	I	T	C	E	R	A	L	E	E	G	R
NTDB id	407 SMU RS04605 WP 002262865.1	G	G	A	T	I	A	V	I	G	T	G	L	D	V	H	Y	P	K	E	N	R	L	Q	D	Y	I	A	K	N	H	L	D	L	S	E	Y	E	A	Q	S	Q	P	L	K	Y	H	F	P	E	R	N	R	I	I	A	G	L	S	Q	G	V	M	V	A	E	A	K	I	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	29076 SGO RS05885 WP 012000600.1	G	G	R	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	L	Q	S	Y	I	G	K	N	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	F	H	F	P	E	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R	
NTDB id	525 SMSK321 RS06295 WP 000705298.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	S	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	497 SM12261 RS05565 WP 000705318.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	267 KZH43 RS05590 WP 000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	226 SPD RS05990 WP 000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	192 SPR RS05715 WP 000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K																	

logo

NTDB id 1250 GC085 RS13065 WP 027219989.1	DVLAIPGSIHNP	LARGCHYLL	QQGAKLVT	SVADVL	DELKIE	HHQFTSNKPI	IFSLASGKENLVKFI	G	FETTT	IDQI	IDRSGYGMEQ	333		
NTDB id 599 KW2 RS05940 WP 021037268.1	D	I	FAIPGNI	ADGT	SDGCNHLI	QQGAKLVYQA	QD	I	LEEYLYN			282		
NTDB id 407 SMU RS04605 WP 002262865.1	DV	FV	VPGN	ILDGQ	SE	GCHHLIQ	E	GAKC	I	TSGFD	I	NEFN	280	
NTDB id 29076 SGO RS05885 WP 012000600.1	DV	F	AIPGS	ILDGK	SDG	CHHLIQ	E	GAKC	I	MSG	S	DVLF	DF	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	DV	F	AIPGS	ILDGL	SDG	CHHLIQ	E	GAKLVT	SGQ	DVLA	E	F	E	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	DV	F	AIPGS	ILDGL	SDG	CHHLIQ	E	GAKLVT	SGQ	DVLA	E	F	E	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	DV	F	AIPGS	ILDGL	SDG	CHHLIQ	E	GAKLVT	SGQ	DVLA	E	F	E	282
NTDB id 226 SPD RS05990 WP 000705306.1	DV	F	AIPGS	ILDGL	SDG	CHHLIQ	E	GAKLVT	SGQ	DVLA	E	F	E	282
NTDB id 192 SPR RS05715 WP 000705306.1	DV	F	AIPGS	ILDGL	SDG	CHHLIQ	E	GAKLVT	SGQ	DVLA	E	F	E	282
NTDB id 157 SP RS06205 WP 000705306.1	DV	F	AIPGS	ILDGL	SDG	CHHLIQ	E	GAKLVT	SGQ	DVLA	E	F	E	282
consensus	!	*****	!	*****	*****	!	*****	*****	!	*****	*****	!	*****	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	361
NTDB id 599 KW2 RS05940 WP 021037268.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
NTDB id 407 SMU RS04605 WP 002262865.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	280
NTDB id 29076 SGO RS05885 WP 012000600.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
NTDB id 226 SPD RS05990 WP 000705306.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
NTDB id 192 SPR RS05715 WP 000705306.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
NTDB id 157 SP RS06205 WP 000705306.1	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	282
consensus	VTSGLA	E	L	E	L	K	G	A	V	I	A	V	P	G	G	Y	I	R	C	E	Y	E	R	

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