

[illegible]

NTDB	id	617	LCA	RS06480	WP	011375001.1	.QTIYLRRLATVGDFLNR	ESLVIRFI	YPIGAIYH	CDDQ	QILAQ	LTQMSR	QSGLI	LFAGPT	GSGKTT	SLYH	LAQQSMS	AKM	VVA	IED	168
NTDB	id	586	KW2	RS10855	WP	011836048.1	SSAKRLRLSTVGDFEGN	ESLVIRLLHD	QKQ	LELFWFD	.DK.	LQDFRCKR	GLYLFAGP	VGSGKT	SLMFD	LAH	RHSNA	QVIT	IE	165	
NTDB	id	59903	L897	RS00650	WP	002993471.1	DKQLSLRLSSVGDYRG	ESLVIRLLH	QNKSV	HYWFD	.GLTKV	ANQVGG	RGLYLFAGP	VGSGKT	TLMYQL	LISSYHQEA	QVIT	SIED	167		
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	GETAALRLSTVG DYQ	RESLVIRLLF	DRKRL	KFWFD	.GLNAL	PKIIGR	GLYLFSGP	VGSGKTTLMYEL	VS	RKVPDS	QITIED	169			
NTDB	id	385	SMU	RS09035	WP	002263435.1	GKVISLRLSSVGDYRG	ESLVIRLLF	SGRHD	LKFWFN	.SMDL	ILNEIK	GRGLYLFSGP	VGSGKT	SLMYQL	VKLRFETK	QVITIED	167			
NTDB	id	394	FSA28	RS09405	WP	002291652.1	GKVISLRLSSVGDYRG	ESLVIRLLF	SGRHD	LKFWFN	.SMDL	ILNEIK	GRGLYLFSGP	VGSGKT	SLMYQL	VKLRFETK	QVITIED	167			
NTDB	id	429	SGO	RS09420	WP	012130942.1	.KETSI	RLSTVG DYRG	ESLVIRLLH	DEETEL	KFWFT	.HFPEL	REKFKD	RGLYLFSGP	VGSGKTTLMHQ	LAQLK	FKQ	QVMSIED	166		
NTDB	id	500	SM1261	RS00945	WP	000249545.1	.KMASLRLSTVG DYRG	ESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQ	RGLYLFAGP	VGSGKTTLMH	ELSKSLFK	QVMSIED	166			
NTDB	id	270	KZH43	RS09265	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQ	RGLYLFAGP	VGSGKTTLMH	ELSKSLFK	QVMSIED	166		
NTDB	id	229	SPD	RS09895	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQ	RGLYLFAGP	VGSGKTTLMH	ELSKSLFK	QVMSIED	166		
NTDB	id	195	SPR	RS09430	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQ	RGLYLFAGP	VGSGKTTLMH	ELSKSLFK	QVMSIED	166		
NTDB	id	160	SP	RS10380	WP	000249564.1	.KI	ASLRLSTVG DYRG	HESLVIRLLH	DEEQ	DLHFWFQ	.DIEEL	GKQYR	RQ	RGLYLFAGP	VGSGKTTLMH	ELSKSLFK	QVMSIED	166		
consensus							* * * * *	! ! ! ! !	* * * * *	! ! ! ! !	* * * * *	* * * * *	* * * * *	! ! ! ! !	* * * * *	! ! ! ! !	* * * * *	! ! ! ! !	* * * * *	166	

NTDB	id	617	LCA	RS06480	WP	011375001.1	P	T	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	N	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	G	H	L	V	L	S	T	I	H	A	R	S	T	Q	G	V	A	R	L	L	D	L	G	T	S	E	L		253
NTDB	id	586	KW2	RS10855	WP	011836048.1	P	V	E	L	I	D	S	D	F	I	Q	L	Q	V	N	D	V	I	G	N	S	Y	D	E	L	I	K	L	S	L	R	H	R	P	D	L	L	I	V	G	E	I	R	D	Q	T	A	R	A	V	I	R	A	S	L	T	G	Y	T	V	F	S	T	I	H	A	A	S	V	K	G	V	Q	R	L	L	E	L	C	L	S	D	W		250	
NTDB	id	59903	L897	RS00650	WP	002993471.1	P	V	E	I	K	N	H	Q	I	L	Q	L	Q	V	N	D	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	I	V	G	E	I	R	D	S	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	A	R	L	L	E	L	G	V	T	K	A		252			
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	G	M	T	Y	D	H	L	I	K	L	S	L	R	H	R	P	D	L	I	I	G	E	I	R	D	R	E	T	A	Q	A	V	I	R	A	S	L	T	G	I	R	V	F	S	T	I	H	A	K	S	I	P	G	V	A	R	L	E	L	G	V	S	D		254				
NTDB	id	385	SMU	RS09035	WP	002263435.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	D	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	I	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	A	R	M	L	E	L	C	T	S	S	E		252		
NTDB	id	394	FSA28	RS09405	WP	002291652.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	D	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	I	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	A	R	M	L	E	L	C	T	S	S	E		252		
NTDB	id	429	SGO	RS09420	WP	012130942.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	T	I	G	L	T	Y	E	S	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	S	E	T	A	R	A	V	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E		251
NTDB	id	500	SM1261	RS00945	WP	000249545.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	S	E	T	A	R	A	V	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E		251
NTDB	id	270	KZH43	RS09265	WP	000249564.1	P	V	E	I	K	Q	D	N																																																																														

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NTDB id 617 LCA RS06480 WP 011375001.1	QLRACLTGIAYQSLVTKDDVVQA...HYELLTGSDYFSKKEGGCDV.....	296
NTDB id 586 KW2 RS10855 WP 011836048.1	ELKNGLEAVVYQRLIAGKGVLDIAKSKFDTWSPKKWNEKTENLYANGHLTAIEEAEREKISINQASKIDTTDGESFE	326
NTDB id 59903 L897 RS00650 WP 002993471.1	ELSNCLALIAVYQRLINGGALIDSTQNEFEYYSNWNQQIDQLLEAGHLNPKQAKLEKII.....	312
NTDB id 584 DLJ51 RS00890 WP 019777327.1	ELDNCLAGIAYQRLIGGGGLIDFAQDHFQNHQAECWNEKIDQLLAAGHLTEEEA AAAEKIKD.....	315
NTDB id 385 SMU RS09035 WP 002263435.1	ELQNALRGIVYQRLIGGGGIIDFAKGDYQNHSAKKWNKQIYDLFTAGYITEGEAQAE EIED.....	313
NTDB id 394 FSA28 RS09405 WP 002291652.1	ELQNALCGIVYQRLIGGGGIIDFAKGDYQNHSAKKWNKQIYDLFTAGYITEGEAQAE EIED.....	313
NTDB id 429 SGO RS09420 WP 012130942.1	ELKIVLQGICYQRLIGGGGVIDFASDNYQEHEPTVWNQQIDQLLAAGHIHPEQAEAEKIRNQQAKTSY.....	319
NTDB id 500 SM12261 RS00945 WP 000249545.1	ELAVVLQGVICYQRLIGGGGIVDFANKDYQEHQSTSWNAQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 270 KZH43 RS09265 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 229 SPD RS09895 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 195 SPR RS09430 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 160 SP RS10380 WP 000249564.1	ELAVVLQGVICYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
consensus	*! ! ** !!*!***** ** * ** ** ** ** ** ** ** ** ** ** ** ** ** ** **	

- ⓧ non conserved
- ✖ similar
- ⓧ ≥ 50% conserved