

NTDB id	615	LCA RS02545 WP 011374200.1	.MGQQV IACGRQFTAAQLADTQN....NNYSLPQIKRRPAFLRVKHLVLCQRGQGVV.PPQTCLPDGRHYCAQLLFGRLVEGD	78
NTDB id	593	KW2 RS05130 WP 021037147.1	MNLILENLLCHILLEKDISAFNNFTDQVNENKL.IKGAMTSVNANKVRNCRGTHIKTNVKLPIGAFFCPTCLELGRVRSDE	84
NTDB id	33536	SEQ RS08610 WP 042357492.1	.MENIENYYGRLLPERQCCKAV.....SAWA CSLQS.M.ITKKGTLYCQRCSSTL.EKAHQ LPSGAYCYCRACL VFGRNQSDR	73
NTDB id	277	KZH43 RS10090 WP 000867601.1	.MKVNL DYLGRLFTENELTEEE.....RQLAEKLPAM.RKEKGKLF C QRCNSTI.LEEWYLP IGAYYC RECLLMKRVRSDQ	73
NTDB id	236	SPD RS10765 WP 000867601.1	.MKVNL DYLGRLFTENELTEEE.....RQLAEKLPAM.RKEKGKLF C QRCNSTI.LEEWYLP IGAYYC RECLLMKRVRSDQ	73
NTDB id	202	SPR RS10250 WP 000867601.1	.MKVNL DYLGRLFTENELTEEE.....RQLAEKLPAM.RKEKGKLF C QRCNSTI.LEEWYLP IGAYYC RECLLMKRVRSDQ	73
NTDB id	167	SP RS11275 WP 000867616.1	.MKVNL DYLGRLFTENELTEEE.....RQLAEKLPAM.RKEKGKLF C QRCNSTI.LEEWYLP IGAYYC RECLLMKRVRSDQ	73
NTDB id	507	SM12261 RS09240 WP 000867722.1	.MKVNP NYLGRLFTENELTEEE.....RQLAEKLPAM.RKEKGKLF C QRCNSTI.LEEWYLP ICTYYCRECLLMKRVRSDQ	73
NTDB id	535	SMSK321 RS10515 WP 000867726.1	.MKVNP NYLGRLFTENELTK EE.....RQLAEKLPAM.RKEKGKLF C QRCDSAI.L DEWYLP IGAYYC RECLLMKRVRSDQ	73
consensus			***** ** ! ***** **** ***** * * ! ! ! * * * * ! * * * * ! * * * * ! * * * *	

NTDB id 615 LCA RS02545 WP 011374200.1	WLYTVPECHLFENNIPKLTWEQGQLTPHQEAAQAVVEVVQTQKRHVLTAVTGAGKTMLFGGLVALQKGQRVCLAAPRVAVCLE	163
NTDB id 593 KW2 RS05130 WP 021037147.1	YFYHLPPQQDFPEKT..YLRLWTGKLLENQEKSIDALCQQITNNQKLLVQA V TGAGKTEMIYQLIEQLSHGGSVGLASPRIDVCIE	167
NTDB id 33536 SEQ RS08610 WP 042357492.1	PLLLYFPASPFPKHG..YLRLWQGQLTTYQAALSHQLTNHVKKLKQD TLVHAVTGAGKTEMMYEATAAVVNKGCVCTASPRVDVCIE	156
NTDB id 277 KZH43 RS10090 WP 000867601.1	TLYYFPQEDFPPKQD..VLKWRGQLTPPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLE	156
NTDB id 236 SPD RS10765 WP 000867601.1	TLYYFPQEDFPPKQD..VLKWRGQLTPPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLE	156
NTDB id 202 SPR RS10250 WP 000867601.1	TLYYFPQEDFPPKQD..VLKWRGQLTPPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLE	156
NTDB id 167 SP RS11275 WP 000867616.1	TLYYFPQEDFPPKQD..VLKWRGQLTPPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLE	156
NTDB id 507 SM12261 RS09240 WP 000867722.1	SLYYFPQEDFPPKQD..VLKWRGQLTPPFQEKVSEGLLQAVDKQKEPSLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLE	156
NTDB id 535 SMSK321 RS10515 WP 000867726.1	VLYYFPQEDFAKQD..TLKWRGQLTPPFQEKVSEGLTQAVDKQEPILVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLE	156
consensus	* * * * *	

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NTDB id 615 LCA RS02545 WP 011374200.1	T	P	A	I	K	R	A	I	A	A	K	Q	M	T	V	S	E	L	P	R	F	H	G	H	L	P	E	P	Q	R	H	V	A	F	N	W	R	A	Q	L	K	G	R	L	P	K	R	L	E	R	D	C	T	Y	L	K	.	T	Q	Q	I	L	F	V	P	Q	V	R	L	L	Q	P	V	A	N	R	L	S	T	L						
NTDB id 593 KW2 RS05130 WP 021037147.1	T	D	K	L	D	K	Q	I	K	K	H	E	I	K	R	L	F	L	P	R	R	F	H	G	H	P	L	V	I	P	M	F	F	W	K	K	T	F	Y	K	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	I	E	Q	R	K	T	G	F	P	L	L	I	F	V	A	E	I	D	F	G	C	D	F	A	K	N	L	Q	E	K
NTDB id 33536 SEQ RS08610 WP 042357492.1	T	R	D	L	E	R	K	V	K	Q	K	E	L	V	K	L	T	L	A	R	R	F	H	G	K	P	L	V	V	P	K	Y	Q	R	L	F	S	L	L	E	A	T	N	R	G	K	L	P	R	F	I	L	V	K	Q	R	A	T	G	Y	P	L	L	I	F	F	P	I	E	L	A	E	Q	C	C	Q	L	L	H	K	Y					
NTDB id 277 KZH43 RS10090 WP 000867601.1	T	N	E	L	D	K	K	V	R	L	G	E	L	K	R	L	N	L	P	R	R	F	H	G	N	P	L	I	I	P	K	P	I	W	L	S	D	F	N	R	Y	L	D	K	N	R	L	S	P	K	L	S	Y	I	E	K	Q	R	K	T	A	Y	P	L	L	I	F	A	S	E	I	K	K	G	E	Q	L	A	E	I	L	Q	E	Q		
NTDB id 236 SPD RS10765 WP 000867601.1	T	N	E	L	D	K	K	V	R	L	G	E	L	K	R	L	N	L	P	R	R	F	H	G	N	P	L	I	I	P	K	P	I	W	L	S	D	F	N	R	Y	L	D	K	N	R	L	S	P	K	L	S	Y	I	E	K	Q	R	K	T	A	Y	P	L	L	I	F	A	S	E	I	K	K	G	E	Q	L	A	E	I	L	Q	E	Q		
NTDB id 202 SPR RS10250 WP 000867601.1	T	N	E	L	D	K	K	V	R	L	G	E	L	K	R	L	N	L	P	R	R	F	H	G	N	P	L	I	I	P	K	P	I	W	L	S	D	F	N	R	Y	L	D	K	N	R	L	S	P	K	L	S	Y	I	E	K	Q	R	K	T	A	Y	P	L	L	I	F	A	S	E	I	K	K	G	E	Q	L	A	E	I	L	Q	E	Q		
NTDB id 167 SP RS11275 WP 000867616.1	T	N	E	L	D	K	K	V	R	L	G	E	L	K	R	L	N	L	P	R	R	F	H	G	N	P	L	I	I	P	K	P	I	W	L	S	D	F	N	R	Y	L	D	K	N	R	L	S	P	K	L	S	Y	I	E	K	Q	R	K	T	A	Y	P	L	L	I	F	A	S	E	I	K	K	G	E	Q	L	A	E	I	L	Q	E	Q		
NTDB id 507 SM12261 RS09240 WP 000867722.1	T	D	E	L	D	R	K	V	R	I	G	E	L	K	R	L	S	L	P	R	R	F	H	G	N	P	L	I	I	P	K	P	V	W	L	S	D	F	N	H	C	L	E	K	S	R	L	S	P	K	L	S	Y	I	E	K	Q	R	K	T	G	Y	P	L	L	I	F	A	S	E	I	K	K	G	E	Q	L	K	E	I	T	Q	E	Q		
NTDB id 535 SMSK321 RS10515 WP 000867726.1	T	D	E	L	D	R	K	V	R	I	G	E	L	K	R	L	S	L	P	R	R	F	H	G	N	P	L	I	I	P	K	P	V	W	L	S	D	F	N	R	Y	L	D	K	N	R	L	S	P	K	L	S	Y	I	E	K	Q	R	K	T	G	Y	P	L	L																					

