

NTDB id	362	SMU RS05200 WP	002262214.1	..MIKILLVDDLSLSNSI.FDFLDDFADVMQVFDEEGLYEAESGVYDLILLDMLPEKNGFQVLKELREKGITTPVLIIMTAKE	82
NTDB id	258	KZH43 RS03475 WP	000590640.1	..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDEEGLYEAESGVYDLILLDMLPEKNGFQVLKELREKGITTPVLIIMTAKE	82
NTDB id	217	SPD RS03775 WP	000590640.1	..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDEEGLYEAESGVYDLILLDMLPEKNGFQVLKELREKGITTPVLIIMTAKE	82
NTDB id	183	SPR RS03560 WP	000590640.1	..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDEEGLYEAESGVYDLILLDMLPEKNGFQVLKELREKGITTPVLIIMTAKE	82
NTDB id	147	SP RS03905 WP	000590640.1	..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDEEGLYEAESGVYDLILLDMLPEKNGFQVLKELREKGITTPVLIIMTAKE	82
NTDB id	374	SMU RS06885 WP	002262930.1	..MKKILIVDDEKPISDIITKFNLAKEGYDTITAFDGREALSKYEENPDIIITLDMLPEIDGLEVAKEVRKN.SHVPITIMLSAKD	82
NTDB id	413	AAK55817.1	141..845()	..MKKILIVDDEKPISDIITKFNMTEGYEVVTAFNGREALAQFEAEQPDIIITLDMLPEIDGLEVAKTIRKT.SSVPITIMLSAKD	82
NTDB id	20757	L RS08315 WP	003130756.1	MTSKKILITIEDEKNLARFVSLELEHEGYATEIKDNGRSGLEEATSKDYDLILLDMLPELDGFEVARRLRKE.KDTPITIMMTARD	84
NTDB id	606	V4T04 RS01910 WP	003130756.1	MTSKKILITIEDEKNLARFVSLELEHEGYATEIKDNGRSGLEEATSKDYDLILLDMLPELDGFEVARRLRKE.KDTPITIMMTARD	84
NTDB id	471	HSISS4 RS01430 WP	002883757.1	.MSKRILITIEDEKNLARFVSLELQLHEGYDVVTADNREGLEMALEKDFDLILLDMLPEMDGFEVTRLRQQE.KDTPITIMMTARD	83
consensus				* ** ! *** ! * ***** **** * ***** ! * * ***** * * ! * * ! ! ! ! ! ! ! * ! * ! ***** ! *	

NTDB id 362	SMU RS05200 WP 002262214.1	GLDDKGHGFE	ELGADDYLT	KPFYLEELK	MR	IQALL	K	RS	GKFNEN		N	LT	YCE	L	T	V	D	T	A	T	N	T	M	V	N	G	K	E	V	E	L	L	G	K	E	F	D	L	157																																				
NTDB id 258	KZH43 RS03475 WP 000590640.1	SLDDKGHGFE	ELGADDYLT	KPFYLEELK	MR	IQALL	K	RS	GKFNEN		T	L	T	Y	C	N	I	V	V	N	L	S	T	N	T	V	K	V	E	D	T	P	V	E	L	L	G	K	E	F	D	L	157																																
NTDB id 217	SPD RS03775 WP 000590640.1	SLDDKGHGFE	ELGADDYLT	KPFYLEELK	MR	IQALL	K	RS	GKFNEN		T	L	T	Y	C	N	I	V	V	N	L	S	T	N	T	V	K	V	E	D	T	P	V	E	L	L	G	K	E	F	D	L	157																																
NTDB id 183	SPR RS03560 WP 000590640.1	SLDDKGHGFE	ELGADDYLT	KPFYLEELK	MR	IQALL	K	RS	GKFNEN		T	L	T	Y	C	N	I	V	V	N	L	S	T	N	T	V	K	V	E	D	T	P	V	E	L	L	G	K	E	F	D	L	157																																
NTDB id 147	SP RS03905 WP 000590640.1	SLDDKGHGFE	ELGADDYLT	KPFYLEELK	MR	IQALL	K	RS	GKFNEN		T	L	T	Y	C	N	I	V	V	N	L	S	T	N	T	V	K	V	E	D	T	P	V	E	L	L	G	K	E	F	D	L	157																																
NTDB id 374	SMU RS06885 WP 002262930.1	SEFDK	VIGLE	I	GADDY	V	T	K	P	F	S	N	R	E	L	L	A	R	V	K	A	H	L	R	R	T	E	N	I	E	S	A	V	A	E	E	N	A	S	G	I	P	E	T	I	I	G	D	L	Q	I	L	P	D	A	F	V	A	K	K	R	G	T	E	V	E	L	T	H	R	E	F	E	L	167
NTDB id 413	AAK55817.1 141..845()	SEFDK	VIGLE	I	GADDY	V	T	K	P	F	S	N	R	E	L	L	A	R	V	K	A	L	L	R	S	Q	P	M	P	V	D	G	Q	E	A	D	S	K	P	Q	P	I	Q	I	G	D	L	E	I	V	P	D	A	Y	V	A	K	K	Y	G	E	E	L	D	L	T	H	R	E	F	E	L	166		
NTDB id 20757	L RS08315 WP 003130756.1	STMD	R	V	A	G	L	I	G	A	D	D	I	T	K	P	F	A	T	E	E	L	L	A	R	V	A	F	F	R	E	E	H	G	H	A	V	E	R	A	E	N	T	S		F	R	D	L	V	I	D	K	T	N	R	T	V	H	R	G	K	K	V	I	D	L	T	R	R	E	Y	D	L	163
NTDB id 606	V4T04 RS01910 WP 003130756.1	STMD	R	V	A	G	L	I	G	A	D	D	I	T	K	P	F	A	T	E	E	L	L	A	R	V	A	F	F	R	E	E	H	G	H	A	V	E	R	A	E	N	T	S		F	R	D	L	V	I	D	K	T	N	R	T	V	H	R	G	K	K	V	I	D	L	T	R	R	E	Y	D	L	163
NTDB id 471	HSISS4 RS01430 WP 002883757.1	SIM	D	I	V	A	G	L	D	R	G	A	D	D	I	V	T	K	P	F	A	T	E	E	L	L	A	R	I	R	A	T	F	R	R	Q	D	I	E	A	A	K	N	A	P	A	K	A	S	T		Y	R	D	L	K	D	V	Q	N	R	T	V	V	R	G	D	E	A	P	L	T	K	R	E

NTDB id 362	SMU RS05200 WP 002262214.1	L	V	V	F	L	Q	N	Q	N	V	I	L	P	K	S	Q	I	F	D	R	L	W	G	F	D	S	D	T	T	I	S	V	V	E	V	Y	S	K	I	R	K	K	L	K	D	T	T	F	G	K	N	L	Q	T	L	R	S	V	G	Y	L	K	D	A	N	.	224	
NTDB id 258	KZH43 RS03475 WP 000590640.1	L	V	V	F	L	Q	N	Q	N	V	I	L	P	K	T	Q	I	F	D	R	L	W	G	F	D	S	D	T	T	I	S	V	V	E	V	Y	S	K	V	R	K	K	L	K	G	T	T	F	A	E	N	L	Q	T	L	R	S	V	G	Y	L	K	D	V	Q	.	224	
NTDB id 217	SPD RS03775 WP 000590640.1	L	V	V	F	L	Q	N	Q	N	V	I	L	P	K	T	Q	I	F	D	R	L	W	G	F	D	S	D	T	T	I	S	V	V	E	V	Y	S	K	V	R	K	K	L	K	G	T	T	F	A	E	N	L	Q	T	L	R	S	V	G	Y	L	K	D	V	Q	.	224	
NTDB id 183	SPR RS03560 WP 000590640.1	L	V	V	F	L	Q	N	Q	N	V	I	L	P	K	T	Q	I	F	D	R	L	W	G	F	D	S	D	T	T	I	S	V	V	E	V	Y	S	K	V	R	K	K	L	K	G	T	T	F	A	E	N	L	Q	T	L	R	S	V	G	Y	L	K	D	V	Q	.	224	
NTDB id 147	SP RS03905 WP 000590640.1	L	V	V	F	L	Q	N	Q	N	V	I	L	P	K	T	Q	I	F	D	R	L	W	G	F	D	S	D	T	T	I	S	V	V	E	V	Y	S	K	V	R	K	K	L	K	G	T	T	F	A	E	N	L	Q	T	L	R	S	V	G	Y	L	K	D	V	Q	.	224	
NTDB id 374	SMU RS06885 WP 002262930.1	L	H	H	L	A	T	H	T	G	Q	V	M	T	R	E	H	L	L	E	T	V	W	G	Y	D	Y	F	G	D	V	R	T	V	D	V	T	V	R	L	R	E	K	I	E	D	T	P	S	R	P	E	Y	I	L	T	R	R	G	V	G	Y	M	K	S	Y	D	.	235
NTDB id 413	AAK55817.1 141..845()	L	Y	H	L	A	S	H	T	G	Q	V	I	T	R	E	H	L	L	E	T	V	W	G	Y	D	Y	F	G	D	V	R	T	V	D	V	T	V	R	L	R	E	K	I	E	D	T	P	S	R	P	E	Y	I	L	T	R	R	G	V	G	Y	M	R	N	A	*	234	
NTDB id 20757	L RS08315 WP 003130756.1	L	I	T	L	M	Q	N	V	G	D	V	V	T	R	E	H	L	V	S	Q	V	W	G	Y	E	E	G	T	E	T	N	V	V	D	V	I	R	Y	L	R	N	K	I	.	D	V	E	G	Q	D	S	Y	I	Q	T	V	R	G	L	G	Y	M	R	E	R	K	.	230
NTDB id 606	V4T04 RS01910 WP 003130756.1	L	I	T	L	M	Q	N	V	G	D	V	V	T	R	E	H	L	V	S	Q	V	W	G	Y	E	E	G	T	E	T	N	V	V	D	V	I	R	Y	L	R	N	K	I	.	D	V	E	G	Q	D	S	Y	I	Q	T	V	R	G	L	G								

- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved