

NTDB id	596 KW2 RS08720 WP 021037686.1	. .MRFLLIKFP	PLIFLTYLVVLLYFCIFT	YNLP	L...ILFICSILL..AL.....	FRKYYLMIPILIVFAVFLL	63	
NTDB id	987353 AAF758 RS03470 WP 012775040.1	.MSRISKLP	CQPVHLAVLAVA.....	A	YFAVHSFSLLTMCILLSVLAVFGVRQGKT	VFLKTLPLLTLCG....LF	68	
NTDB id	494 SM12261 RS04305 WP 000942409.1	MLQWIKNF	SPILIYLSFLLLWLYYAIFS	AS	SYLALLGFVFLLVCLFIQ....FP.....	WKSAGKVLIICGIFGFWF	69	
NTDB id	522 SMSK321 RS04965 WP 000942453.1	MLQWKTKN	FPIILIYSFLLLWLYYAIFS	VS	YLALLGFVFLLVCLFIQ....FL.....	WKSAGKVLVICGIFGFV	69	
NTDB id	189 SPR RS04300 WP 000942407.1	MLQWIKNF	SPILIYLSFLLLWLYYAIFS	AS	SYLALLGFVFLLVCLFIQ....FP.....	WKSAGKVLIICGIFGFV	69	
NTDB id	223 SPD RS04540 WP 000942407.1	MLQWIKNF	SPILIYLSFLLLWLYYAIFS	AS	SYLALLGFVFLLVCLFIQ....FP.....	WKSAGKVLIICGIFGFV	69	
NTDB id	154 SP RS04735 WP 000942394.1	MLQWIKNF	SPILIYLSFLLLWLYYAIFS	AS	SYLALLGFVFLLVCLFIQ....FP.....	WKSAGKVLIICGIFGFV	69	
NTDB id	264 KZH43 RS04200 WP 000942407.1	MLQWIKNF	SPILIYLSFLLLWLYYAIFS	AS	SYLALLGFVFLLVCLFIQ....FP.....	WKSAGKVLIICGIFGFV	69	
consensus		*****!***!***** *****!***!***** *					*****!***!*****	

NTDB id	596 KW2 RS08720 WP 021037686.1	I ^N SLSIRDNENQPKTSLKIELISDTIQVNGDLSFQGRRMNGQNYQQVYDTLKSLSKEKKFYQNQLSQNCQLSFTGNLQIPETQ	143
NTDB id	987353 AAF758 RS03470 WP 012775040.1	QKVQWERAAGQSAPGQVVTTVQVIPDITIDINGDSLSFRGRADGGQNYQVFYKLTSQEEEQTFFQNNLADLVQLEVEAEVSLPAGQ	148
NTDB id	494 SM12261 RS04305 WP 000942409.1	QNWQQSQASQNLADSVERVRILPDTVKVNGDSLFSRFGKSDGRIFQVYYKLQSEEEKAEAFQALTDLHEIGLEGKLPSEPDCQ	149
NTDB id	522 SMSK321 RS04965 WP 000942453.1	QNWQQSQASQNLSDSVETIVRIPLDTVKNVGDSLFSRFGKADGRIFQVYYKLQSEEEKETFQIILTALHDLIEGLEGLSEPEGK	149
NTDB id	189 SPR RS04300 WP 000942407.1	QNWQQSQASQNLADSVERVRILPDTVKVNGDSLFSRFGKADGRIFQVYYKLQSEEEEKAFAFQALTDLHEIGLEGKLPSEPEGQ	149
NTDB id	223 SPD RS04540 WP 000942407.1	QNWQQSQASQNLADSVERVRILPDTVKVNGDSLFSRFGKADGRIFQVYYKLQSEEEEKAFAFQALTDLHEIGLEGKLPSEPEGQ	149
NTDB id	154 SP RS04735 WP 000942394.1	QNWQQSQASQNLADSVERVRILPDTVKNVGDSLFSRFGKSNGRAFFQVYYKLQSEEEEKAFAFQALTDLHEIGLEGKLPSEPEGQ	149
NTDB id	264 KZH43 RS04200 WP 000942407.1	QNWQQSQASQNLADSVERVRILPDTVKVNGDSLFSRFGKADGRIFQVYYKLQSEEEEKAFAFQALTDLHEIGLEGKLPSEPEGQ	149
consensus		*****!!!!!!!!!!!!!!*	

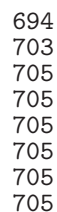
NTDB id 596 KW2 RS08720 WP 021037686.1	RNFN	G	F	D	D	Q	K	Y	L	A	S	Q	N	I	Y	R	Q	T	T	Q	Q	T	N	V	E	I	K	K	N	F	D	...	L	H	T	L	R	R	K	A	I	V	W	T	Q	N	H	F	P	K	P	M	S	D	Y	M	T	G	L	L	F	G	F	L	S	K	D	F	N	Q	M	S	219					
NTDB id 987353 AAF758 RS03470 WP 012775040.1	RNF	K	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	R	T	V	K	L	T	A	I	K	K	I	V	P	V	Q	S	W	N	V	F	D	W	L	S	T	W	R	R	Q	A	L	V	Y	V	K	T	N	F	P	A	P	M	S	H	Y	M	T	G	L	L	F	G	E	L	D	S	D	F	Q	M	S	228
NTDB id 494 SM12261 RS04305 WP 000942409.1	RNF	G	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	Q	T	L	N	I	K	I	Q	S	L	Q	K	V	G	S	W	D	I	G	E	N	L	S	S	L	R	R	K	T	V	W	I	K	T	H	F	P	D	P	M	R	N	Y	M	T	G	L	L	G	H	L	D	T	D	F	E	E	M	N	229		
NTDB id 522 SMSK321 RS04965 WP 000942453.1	RNF	G	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	Q	T	L	N	I	K	I	Q	S	L	Q	K	V	G	S	W	D	I	G	E	N	L	S	S	L	R	R	K	A	V	V	I	K	T	H	F	P	D	P	M	R	N	Y	M	T	G	L	L	G	H	L	D	T	D	F	E	E	M	N	229		
NTDB id 189 SPR RS04300 WP 000942407.1	RNF	G	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	Q	T	L	N	I	K	I	Q	S	L	Q	K	V	G	S	W	D	I	G	E	N	L	S	S	L	R	R	K	A	V	V	I	K	T	H	F	P	D	P	M	R	N	Y	M	T	G	L	L	G	H	L	D	T	D	F	E	E	M	N	229		
NTDB id 223 SPD RS04540 WP 000942407.1	RNF	G	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	Q	T	L	N	I	K	I	Q	S	L	Q	K	V	G	S	W	D	I	G	E	N	L	S	S	L	R	R	K	A	V	V	I	K	T	H	F	P	D	P	M	R	N	Y	M	T	G	L	L	G	H	L	D	T	D	F	E	E	M	N	229		
NTDB id 154 SP RS04735 WP 000942394.1	RNF	G	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	Q	T	L	N	I	K	T	I	Q	S	L	Q	K	V	G	S	W	D	I	G	E	N	L	S	S	L	R	R	K	A	V	V	I	K	T	H	F	P	D	P	M	R	N	Y	M	T	G	L	L	G	H	L	D	T	D	F	E	E	M	N	229	
NTDB id 264 KZH43 RS04200 WP 000942407.1	RNF	G	G	F	D	Y	Q	A	Y	L	K	T	Q	G	I	Y	Q	T	L	N	I	K	I	Q	S	L	Q	K	V	G	S	W	D	I	G	E	N	L	S	S	L	R	R	K	A	V	V	I	K	T	H	F	P	D	P	M	R	N	Y	M	T	G	L	L	G	H	L	D	T	D	F	E	E	M	N</			

[illegible]


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consensus



- X non conserved
- X similar
- X $\geq 50\%$ conserved