

NTDB id 114	BSU 16110 NP 389493.1	..MDQAAYCLTICRIINQL....LSPSL	L	K	W	K	A	D	P	S	M	S	L		T	S	P	V	L	Q	T	V	T	R	D	Q	I	K	A	A	L	K	N	E	I	E	Q	F	Y	P	K	62																																
NTDB id 1250	GC085 RS13065 WP 027219989.1	..MNNLQPLALNR	M	K	R	I	G		P	R	T	V	L	K	L	Q	K	R	W	P	D	L	N	L	M	F	Q	..	S	S	V	D	L	E	E	A	G	L	P	S	W	L	A	Q	T	I	K	N	F	D	P	D	F	I	K	T	D	L	N	W	L	...	70											
NTDB id 599	KW2 RS05940 WP 021037268.1	..MTTNFDL....	F	R	W	K	K	A	G	M	T	N	L	G	V	N	K	L	K	F	R	K	Y	D	R	K	T	S	L	R	Q	M	..	G	Q	V	A	Q	V	K	S	I	P	N	F	I	E	Q	Y	K	N	Q	D	V	K	L	R	A	D	Y	K	K	F	...	70									
NTDB id 525	SMSK321 RS06295 WP 000705298.1	MK	I	T	N	Y	E	I		Y	K	L	K	K	S	G	L	T	N	Q	Q	I	L	K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..	A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	Y	F	Q	I	D	D	A	H	L	E	K	E	F	K	K	I	...	71
NTDB id 267	KZH43 RS05590 WP 000705306.1	MK	I	T	N	Y	E	I		Y	K	L	K	K	S	G	L	T	N	Q	Q	I	L	K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..	A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	Y	F	Q	I	D	D	A	H	L	S	K	E	F	Q	K	F	...	71
NTDB id 226	SPD RS05990 WP 000705306.1	MK	I	T	N	Y	E	I		Y	K	L	K	K	S	G	L	T	N	Q	Q	I	L	K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..	A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	Y	F	Q	I	D	D	A	H	L	S	K	E	F	Q	K	F	...	71
NTDB id 192	SPR RS05715 WP 000705306.1	MK	I	T	N	Y	E	I		Y	K	L	K	K	S	G	L	T	N	Q	Q	I	L	K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..	A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	Y	F	Q	I	D	D	A	H	L	S	K	E	F	Q	K	F	...	71
NTDB id 157	SP RS06205 WP 000705306.1	MK	I	T	N	Y	E	I		Y	K	L	K	K	S	G	L	T	N	Q	Q	I	L	K	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..	A	D	I	S	G	C	R	N	P	A	V	F	M	E	R	Y	F	Q	I	D	D	A	H	L	S	K	E	F	Q	K	F	...	71
NTDB id 497	SM12261 RS05565 WP 000705318.1	MK	I	T	N	Y	E	I		Y	K	L	K	K	S	G	L	T	N	Q	Q	V	L	A	V	L	E	Y	G	E	N	V	D	Q	E	L	L	G	D	I	..	A	E	I	S	G	C	R	N	P	A	V	F	M	E	R	Y																	

NTDB id 114	BSU 16110 NP 389493.1	LPRVLAAYREQGIN	TIP	TSSKQ	Y	P	F	W	L	K	S	I	Y	D	P	P	A	V	L	F	A	K	G	D	M	T	L	S	K	G	R	K	I	G	I	V	G	T	R	N	P	I	A	Y	G	K	Q	V	V	N	H	L	T	K	E	I	C	R	K	G	W	142			
NTDB id 1250	GC085 RS13065 WP 027219989.1	.S.....	SSENHHIL	T	W	D	S	P	Y	P	A	L	K	E	I	A	D	P	P	F	I	L	Y	A	K	G	E	L	S	A	L	T	Q	P	S	L	A	I	V	G	S	R	N	A	S	V	T	G	N	E	N	A	R	A	F	S	R	E	I	S	R	H	G	V	142
NTDB id 599	KW2 RS05940 WP 021037268.1	.S.....	SFSILDD	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	135					
NTDB id 525	SMSK321 RS06295 WP 000705298.1	.P.....	SFSILDD	C	Y	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	G	S	R	S	C	S	K	Q	G	A	K	S	V	E	K	I	Q	I	G	L	E	N	.E	136						
NTDB id 267	KZH43 RS05590 WP 000705306.1	.P.....	SFSILDD	C	Y	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	I	G	L	E	N	.E	136						
NTDB id 226	SPD RS05990 WP 000705306.1	.P.....	SFSILDD	C	Y	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	I	G	L	E	N	.E	136						
NTDB id 192	SPR RS05715 WP 000705306.1	.P.....	SFSILDD	C	Y	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	I	G	L	E	N	.E	136						
NTDB id 157	SP RS06205 WP 000705306.1	.P.....	SFSILDD	C	Y	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	I	G	L	E	N	.E	136						
NTDB id 497	SM12261 RS05565 WP 000705318.1	.P.....	SFSILDD	C	Y	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	I	G	L	E	N	.E	136						
NTDB id 1155502	QNH71 RS03550 WP 012775129.1	.P.....	SFSILDD	T	Y	P	L	A	L	K	Q	I	Y	N	P	P	V	L	L	F	Y	Q	G	D	L	E	L	L	E	K	L	K	L	A	V	V	G	T	R	N	A	S	K	N	G	I																			

[illegible]

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NTDB id 114 BSU 16110 NP 389493.1	EGVIVVQCKEKSGSLITAYQALECGREVFVAVPGSILDPYAGGPIKLIQQGAKAIVSAEDIFEELPERNVQYTEPF.....	297
NTDB id 1250 GC085 RS13065 WP 027219989.1	LCITLVIEAAIKSGSLITARMALCGRDVLAIIPGSIHNPILARGCHYLLQQGAKLVTSVADVDLDELKIEHHQFTSNKPIFSL	302
NTDB id 599 KW2 RS05940 WP 021037268.1	RGVVVVEAKLRSGSLITCERALEEGRDIFAIPCNIAADGTSDCNHLIQQGAKLVYQAQDILBEVLYN.....	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 226 SPD RS05990 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 192 SPR RS05715 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 157 SP RS06205 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 1155502 QNH71 RS03550 WP 012775129.1	EGLVVCEAKMRSGSLITCERALEEGRVYVFAIPGSIMDGKSDGCHHLIQEGAKCVTSCLDITISEYQF.....	280
NTDB id 407 SMU RS04605 WP 002262865.1	QGVVVAEAKIRSGSLITCERAMEEGRDVFVPCNILDGQSEGCHHLIQEGAKCITSGFDILNEFN.....	280
consensus	*****!*****!!!!!!!!*****!*!*****!!*****!!*****!*!*****!*!*****!*****!*****!*****	

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NTDB id 114 BSU 16110 NP 389493.1	ASCKENLVKFI GFETTTIDQIIDRSGYGMQVTSGLAELELKGAVIAVPGGYIRCEYER	297
NTDB id 1250 GC085 RS13065 WP 027219989.1	ASGKENLVKFIGFETTTIDQIIDRSGYGMQVTSGLAELELKGAVIAVPGGYIRCEYER	361
NTDB id 599 KW2 RS05940 WP 021037268.1		282
NTDB id 525 SMSK321 RS06295 WP 000705298.1		282
NTDB id 267 KZH43 RS05590 WP 000705306.1		282
NTDB id 226 SPD RS05990 WP 000705306.1		282
NTDB id 192 SPR RS05715 WP 000705306.1		282
NTDB id 157 SP RS06205 WP 000705306.1		282
NTDB id 497 SM12261 RS05565 WP 000705318.1		282
NTDB id 1155502 QNH71 RS03550 WP 012775129.1		280
NTDB id 407 SMU RS04605 WP 002262865.1		280
consensus		

- non conserved
- similar
- ≥ 50% conserved