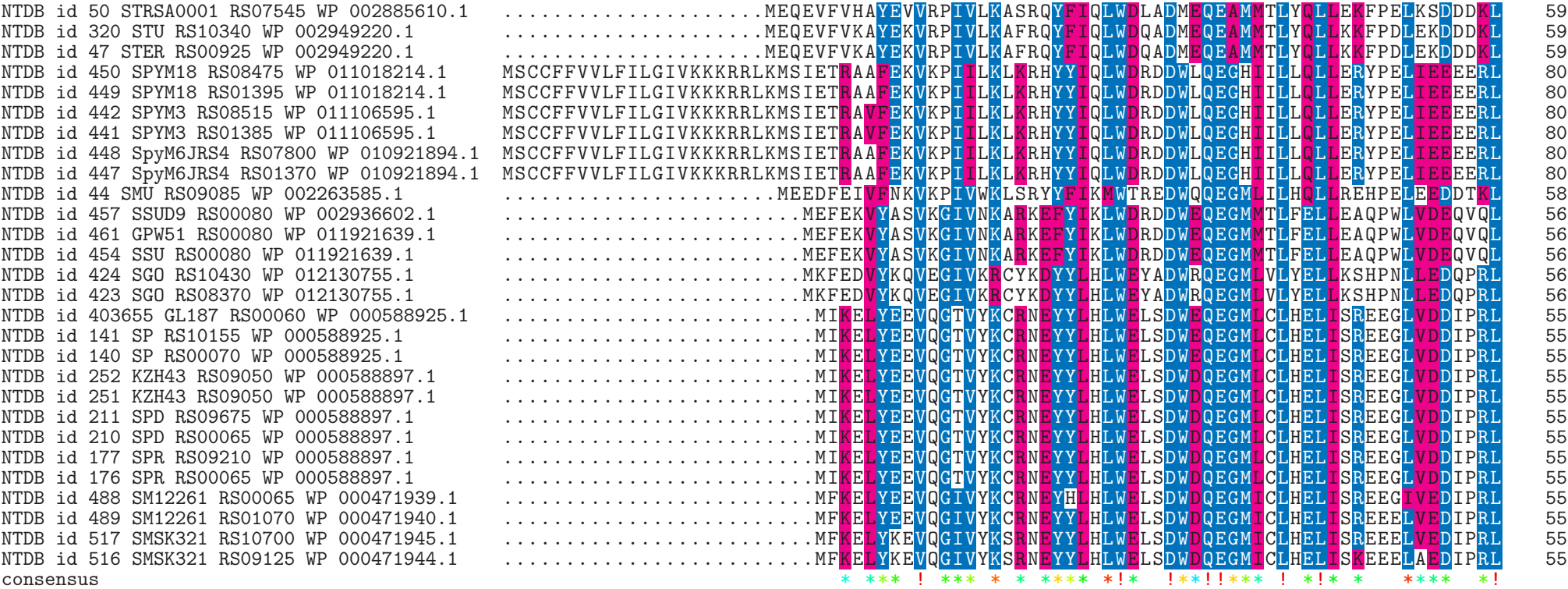


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NTDB id 50 STRSA0001 RS07545 WP 002885610.1	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	I	E	I	S	D	I	A	F	C	I	P	N	K	E	L	D	A	V	D	R	L	V	Y	D	E	Q	L	N	A	F	R	N	Q	L	S	S	E	D	A	T	K	L	D	R	L	L	G	E	139	
NTDB id 320 STU RS10340 WP 002949220.1	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	V	E	I	S	D	I	A	F	C	I	P	N	K	E	L	D	M	V	D	R	L	A	Y	D	E	Q	L	N	A	F	R	E	Q	L	S	S	E	D	S	L	K	L	D	R	L	L	G	E	139	
NTDB id 47 STER RS00925 WP 002949220.1	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	V	E	I	S	D	I	A	F	C	I	P	N	K	E	L	D	M	V	D	R	L	A	Y	D	E	Q	L	N	A	F	R	E	Q	L	S	S	E	D	S	L	K	L	D	R	L	L	G	E	139	
NTDB id 450 SPYM18 RS08475 WP 011018214.1	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	G	L	W	L	D	D	Y	V	A	Y	Q	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	160
NTDB id 449 SPYM18 RS01395 WP 011018214.1	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	G	L	W	L	D	D	Y	V	A	Y	Q	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	160
NTDB id 442 SPYM3 RS08515 WP 011106595.1	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	G	L	W	L	D	D	Y	V	A	Y	Q	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	160
NTDB id 441 SPYM3 RS01385 WP 011106595.1	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	G	L	W	L	D	D	Y	V	A	Y	Q	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	160
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	G	L	W	L	D	D	Y	V	A	Y	Q	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	160
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	G	L	W	L	D	D	Y	V	A	Y	Q	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	160
NTDB id 44 SMU RS09085 WP 002263585.1	Y	I	Y	F	K	T	R	F	S	N	Y	I	K	D	V	L	R	Q	E	S	Q	K	R	R	F	N	R	M	S	Y	E	E	V	G	E	I	E	H	C	L	S	S	G	C	M	Q	L	D	E	Y	I	L	F	R	D	S	L	A	Y	K	Q	G	L	S	T	E	K	Q	E	L	F	E	R	L	V	A	G	E	138		
NTDB id 457 SSUD9 RS00080 WP 002936602.1	Y	C	Y	F	K	V	K	F	R	N	R	I	K	D	R	I	R	K	Q	E	S	Q	K	R	K	F	D	R	M	P	H	E	D	I	H	E	L	S	H	A	I	Q	S	P	G	L	I	N	D	E	L	L	M	L	R	G	A	L	R	D	Y	R	K	N	L	S	N	D	Q	L	D	K	Y	E	K	L	I	S	G	Q	136
NTDB id 461 GPW51 RS00080 WP 011921639.1	Y	C	Y	F	K	V	K	F	R	N	R	I	K	D	R	I	R	K	Q	E	S	Q	K	R	K	F	D	R	M	P	H	E	D	I	H	E	L	S	H	A	I	Q	S	P	G	L	I	N	D	E	L	L	M	L	R	G	A	L	R	D	Y	R	K	N	L	S	N	D	Q	L	D	K	Y	E	K	L	I	S	G	Q	136
NTDB id 454 SSU RS00080 WP 011921639.1	Y	C	Y	F	K	V	K	F	R	N	R	I	K	D	R	I	R	K	Q	E	S	Q	K	R	K	F	D	R	M	P	H	E	D	I	H	E	L	S	H	A	I	Q	S	P	G	L	I	N	D	E	L	L	M	L	R	G	A	L	R	D	Y	R	K	N	L	S	N	D	Q	L	D	K	Y	E	K	L	I	S	G	Q	136
NTDB id 424 SGO RS10430 WP 012130755.1	Y	R	Y	F	K	T	K	F	R	N	R	I	H	D	L	I	R	R	Q	E	S	Q	K	R	K	L	D	R	Q	P	Y	E	E	V	S	E	I	G	H	R	I	R	M	K	E	L	Y	L	D	E	L	V	A	F	R	S	A	M	S	E	Y	R	S	R	L	S	P	E	E	A	K	Q	Y	E	R	L	M	A	D	E	136
NTDB id 423 SGO RS08370 WP 012130755.1	Y	R	Y	F	K	T	K	F	R	N	R	I	H	D	L	I	R	R	Q	E	S	Q	K	R	K	L	D	R	Q	P	Y	E	E	V	S	E	I	G	H	R	I	R	M	K	E	L	Y	L	D	E	L	V	A	F	R	S	A	M	S	E	Y	R	S	R	L	S	P	E	E	A	K	Q	Y	E	R	L	M	A	D	E	136
NTDB id 403655 GL187 RS00060 WP 000588925.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
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NTDB id 140 SP RS00070 WP 000588925.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
NTDB id 252 KZH43 RS09050 WP 000588897.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
NTDB id 251 KZH43 RS09050 WP 000588897.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
NTDB id 211 SPD RS09675 WP 000588897.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
NTDB id 210 SPD RS00065 WP 000588897.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
NTDB id 177 SPR RS09210 WP 000588897.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
NTDB id 176 SPR RS00065 WP 000588897.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	135	
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NTDB id 517 SMSK321 RS10700 WP 000471945.1	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	A	Y	E	E	V	G	E	I	S	H	R	I	G	E	G	L	W	L	D	D	Y	Y	L	F	H	E	T	L	R	D	Y	R	S	K	Q	S	K	D	K	Q	E	E	L	E	R	V	L	R	H	E	135	
NTDB id 516 SMSK321 RS09125 WP 000471944.1	R	K	Y	F</																																																																													

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NTDB id 50 STRSA0001 RS07545 WP 002885610.1	CFRGRKKMIRELRFWMVDFDPYNEDD	165
NTDB id 320 STU RS10340 WP 002949220.1	CFRGRKKMIRELRFWMVDFDPCNEED	165
NTDB id 47 STER RS00925 WP 002949220.1	CFRGRKKMIRELRFWMVDFDPCNEED	165
NTDB id 450 SPYM18 RS08475 WP 011018214.1	RFKGRALLRKISPYFKEFAAQL...	183
NTDB id 449 SPYM18 RS01395 WP 011018214.1	RFKGRALLRKISPYFKEFAAQL...	183
NTDB id 442 SPYM3 RS08515 WP 011106595.1	RFKGRALLRKISPYFKEFAAQL...	183
NTDB id 441 SPYM3 RS01385 WP 011106595.1	RFKGRALLRKISPYFKEFAAQL...	183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	RFKGRALLRKISPYFKEFAAQL...	183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	RFKGRALLRKISPYFKEFAAQL...	183
NTDB id 44 SMU RS09085 WP 002263585.1	HFLGRQSMLEKDLRKKLSDFKEK...	160
NTDB id 457 SSUD9 RS00080 WP 002936602.1	CFNGRREMIRDLIHLLKDFR.....	156
NTDB id 461 GPW51 RS00080 WP 011921639.1	CFNGRREMIRDLIHLLKDFR.....	156
NTDB id 454 SSU RS00080 WP 011921639.1	CFNGRREMIRDLIHLLKDFR.....	156
NTDB id 424 SGO RS10430 WP 012130755.1	RFKGRKAMLEKDLSYHLRDFNPRLD..	160
NTDB id 423 SGO RS08370 WP 012130755.1	RFKGRKAMLEKDLSYHLRDFNPRLD..	160
NTDB id 403655 GL187 RS00060 WP 000588925.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 141 SP RS10155 WP 000588925.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 140 SP RS00070 WP 000588925.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 252 KZH43 RS09050 WP 000588897.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 251 KZH43 RS09050 WP 000588897.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 211 SPD RS09675 WP 000588897.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 210 SPD RS00065 WP 000588897.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 177 SPR RS09210 WP 000588897.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 176 SPR RS00065 WP 000588897.1	RFRGRQRVLRDLRIVFKEFTIRTH..	159
NTDB id 488 SM12261 RS00065 WP 000471939.1	RFRGRQRVLRDLRIVFKEFDIRTH..	159
NTDB id 489 SM12261 RS01070 WP 000471940.1	RFRGRQRVLRDLRIVFKEFDIRTH..	159
NTDB id 517 SMSK321 RS10700 WP 000471945.1	RFRGRQRVLRDLRIVFKEFDIRTQ..	159
NTDB id 516 SMSK321 RS09125 WP 000471944.1	RFRGRQRVLRDLRIVFKEFDIRTR..	159
consensus	*!*!! ***** ***!	

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved