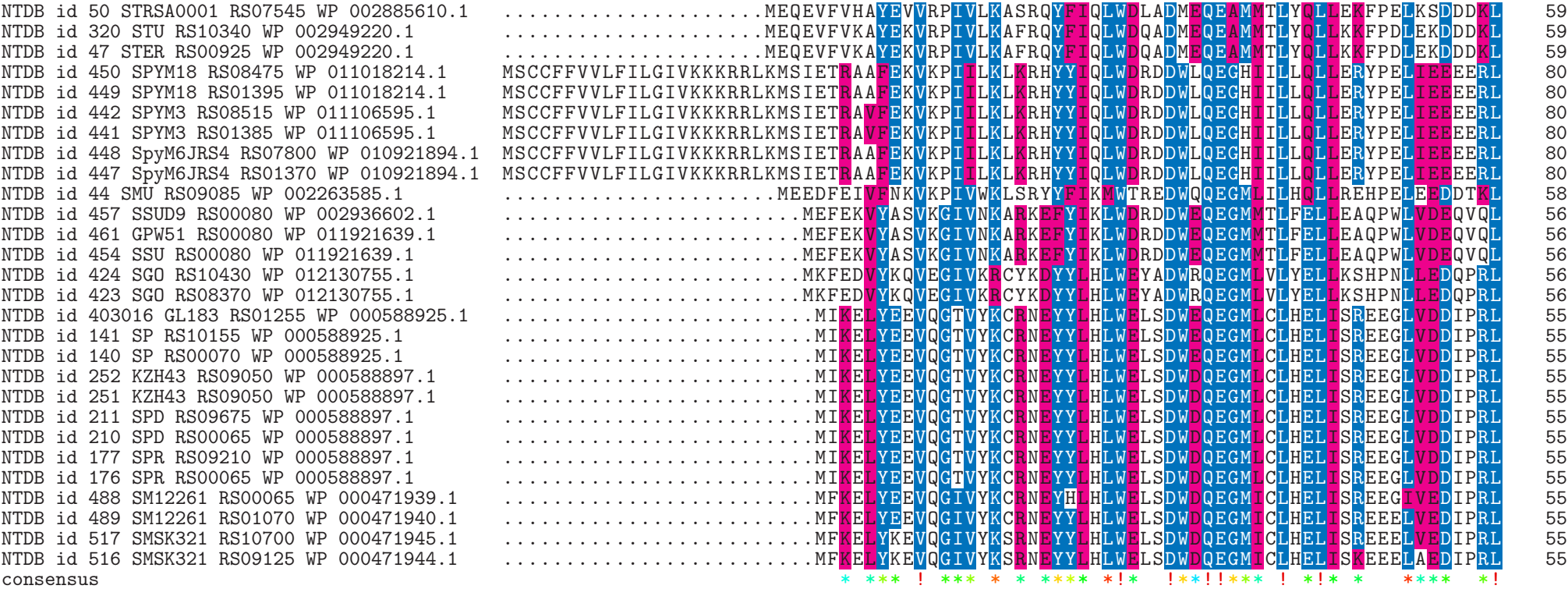


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|----------------------------------------------|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| 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 | I | 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 | I | 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 | 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 | 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 | 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 403016 GL183 RS01255 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 141 SP RS10155 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 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 |     |
| NTDB id 488 SM12261 RS00065 WP 000471939.1   | 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 | M | W | L | D | E | Y | Y | L | F | H | E | T | L | R | D | Y | R | N | K | Q | S | K | D | K | Q | E | E | L | E | R | V | L | R | H | E   | 135 |     |
| NTDB id 489 SM12261 RS01070 WP 000471940.1   | R | K | Y | F | K | T | K   | F | R | N | R | I | L | D | H | 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 | M | W | L | D | E | Y | Y | L | F | H | E | T | L | R | D | Y | R | N | K | Q | S | K | D | K | Q | E | E | L | E | R | V | L | R | H | E   | 135 |     |
| 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 | K | T | K</ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |     |

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|----------------------------------------------|-----------------------------|-----|
| NTDB id 50 STRSA0001 RS07545 WP 002885610.1  | CFFGRKKMIRELRFWMVDFDPYNEDD  | 165 |
| NTDB id 320 STU RS10340 WP 002949220.1       | CFFGRKKMIRELRFWMVDFDPCNEED  | 165 |
| NTDB id 47 STER RS00925 WP 002949220.1       | CFFGRKKMIRELRFWMVDFDPCNEED  | 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     | CFNGRREMIRDLQIHLKDFR.....   | 156 |
| NTDB id 461 GPW51 RS00080 WP 011921639.1     | CFNGRREMIRDLQIHLKDFR.....   | 156 |
| NTDB id 454 SSU RS00080 WP 011921639.1       | CFNGRREMIRDLQIHLKDFR.....   | 156 |
| NTDB id 424 SGO RS10430 WP 012130755.1       | RFKGRKAMLEKDLSYHLRDFNPRLD.. | 160 |
| NTDB id 423 SGO RS08370 WP 012130755.1       | RFKGRKAMLEKDLSYHLRDFNPRLD.. | 160 |
| NTDB id 403016 GL183 RS01255 WP 000588925.1  | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 141 SP RS10155 WP 000588925.1        | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 140 SP RS00070 WP 000588925.1        | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 252 KZH43 RS09050 WP 000588897.1     | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 251 KZH43 RS09050 WP 000588897.1     | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 211 SPD RS09675 WP 000588897.1       | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 210 SPD RS00065 WP 000588897.1       | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 177 SPR RS09210 WP 000588897.1       | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 176 SPR RS00065 WP 000588897.1       | RFRGRQVRDLRIVFKEFTIRTH..    | 159 |
| NTDB id 488 SM12261 RS00065 WP 000471939.1   | RFRGRQVRDLRIVFKEFDIRTH..    | 159 |
| NTDB id 489 SM12261 RS01070 WP 000471940.1   | RFRGRQVRDLRIVFKEFDIRTH..    | 159 |
| NTDB id 517 SMSK321 RS10700 WP 000471945.1   | RFRGRQVRDLRIVFKEFDIRTQ..    | 159 |
| NTDB id 516 SMSK321 RS09125 WP 000471944.1   | RFRGRQVRDLRIVFKEFDIRTR..    | 159 |
| consensus                                    | *!*!!**!*!****!             |     |

- non conserved
- similar
- ≥ 50% conserved