

|                                            |                                                                                       |    |
|--------------------------------------------|---------------------------------------------------------------------------------------|----|
| NTDB id 601 KW2 RS02615 WP 021036805.1     | .....MLCQNCNINEA.....TI                                                               | 13 |
| NTDB id 378 SMU RS02690 WP 002263569.1     | .....MLCQNCNINEA.....TI                                                               | 13 |
| NTDB id 241 SP RS04015 WP 000882523.1      | .....MLCQNCNINDS.....TI                                                               | 13 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1   | .....MLCQNCNINDS.....TI                                                               | 13 |
| NTDB id 245 SPD RS03860 WP 000882517.1     | .....MLCQNCNINDS.....TI                                                               | 13 |
| NTDB id 243 SPR RS03635 WP 000882517.1     | .....MLCQNCNINDS.....TI                                                               | 13 |
| NTDB id 329591 BVMH RS00580 WP 007410388.1 | ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSDKIQKEVESLIG.....RGQEMS    | 75 |
| NTDB id 85 BSU 00860 NP 387967.1           | ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS    | 75 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1   | MKFENIKYPTPLDRILEKAE EYAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR   | 77 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1   | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET  | 75 |
| NTDB id 289 SPD RS10700 WP 001109677.1     | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET  | 75 |
| NTDB id 287 SP RS11210 WP 001109712.1      | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET  | 75 |
| NTDB id 377 SMU RS09275 WP 002262344.1     | ...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN...DI | 79 |
| NTDB id 329 STER RS00545 WP 011680614.1    | ...MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI  | 81 |
| NTDB id 327 STU RS10020 WP 011225298.1     | ...MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI  | 81 |
| consensus                                  | *** * * * * *                                                                         |    |

|      |    |        |       |         |    |             |    |        |      |    |         |   |     |     |   |   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |     |     |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |     |    |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |   |   |   |   |     |     |   |   |   |     |   |   |   |   |   |   |
|------|----|--------|-------|---------|----|-------------|----|--------|------|----|---------|---|-----|-----|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|---|---|---|---|---|-----|-----|---|---|---|-----|---|---|---|---|---|---|
| NTDB | id | 601    | KW2   | RS02615 | WP | 021036805.1 | HL | YTSVNG | QKKQ | ID | LCQNCYQ | I | ... | MKS | G | Q | EAL | L | F | G | A | G | N | A | S | N | G | N | S | D | ... | ... | EP  | F   | N   | P   | . | F | N | D | I | F | S | A | L | Q | G | Q | . | D | F | N | G | A | A | S | N | . | 80 |   |     |     |    |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |   |   |   |   |     |     |   |   |   |     |   |   |   |   |   |   |
| NTDB | id | 378    | SMU   | RS02690 | WP | 002263569.1 | HL | YANVNG | QKKQ | ID | LCQNCYQ | I | ... | M   | K | T | D   | P | E | N | G | P | L | N | H | . | S | Q | N | S | S   | .   | ... | ... | I   | N   | P | F | F | D | . | D | F | F | G | D | . | L | N | N | F | R | . | A | F | N | N | Q | D  | L | P   | .   | 79 |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |   |   |   |   |     |     |   |   |   |     |   |   |   |   |   |   |
| NTDB | id | 241    | SP    | RS04015 | WP | 000882523.1 | HL | YTNLNG | KKKQ | ID | LCQNCYK | I | ... | I   | K | T | D   | P | N | S | L | F | K | G | M | T | . | D | L | N | N   | R   | D   | .   | ... | ... | F | D | P | . | F | G | D | F | F | N | D | . | L | N | N | F | R | P | S | S | . | N | .  | T | P   | .   | 76 |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |   |   |   |   |     |     |   |   |   |     |   |   |   |   |   |   |
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| NTDB | id | 245    | SPD   | RS03860 | WP | 000882517.1 | HL | YTNLNG | KKKQ | ID | LCQNCYK | I | ... | I   | K | T | D   | P | N | S | L | F | K | G | M | T | . | D | L | N | N   | R   | D   | .   | ... | ... | F | D | P | . | F | G | D | F | F | N | D | . | L | N | N | F | R | P | S | S | . | N | .  | T | P   | .   | 76 |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |   |   |   |   |     |     |   |   |   |     |   |   |   |   |   |   |
| NTDB | id | 243    | SPR   | RS03635 | WP | 000882517.1 | HL | YTNLNG | KKKQ | ID | LCQNCYK | I | ... | I   | K | T | D   | P | N | S | L | F | K | G | M | T | . | D | L | N | N   | R   | D   | .   | ... | ... | F | D | P | . | F | G | D | F | F | N | D | . | L | N | N | F | R | P | S | S | . | N | .  | T | P   | .   | 76 |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |   |   |   |   |   |     |     |   |   |   |     |   |   |   |   |   |   |
| NTDB | id | 329591 | BVMH  | RS00580 | WP | 007410388.1 | Q  | T      | I    | H  | Y       | T | P   | R   | A | K | K   | V | I | E | L | S | M | D | E | A | R | K | L | G | H   | S   | Y   | V   | G   | T   | E | H | I | L | L | G | L | I | R | E | G | E | G | V | A | A | R | V | . | L | N | N | L  | G | V   | S   | L  | N | K | A | R | Q | Q | V | L | Q | L | . | L | . | ... | ... | G | S | N | E | T | . | ... | 147 |   |   |   |     |   |   |   |   |   |   |
| NTDB | id | 85     | BSU   | 00860   | NP | 387967.1    | Q  | T      | I    | H  | Y       | T | P   | R   | A | K | K   | V | I | E | L | S | M | D | E | A | R | K | L | G | H   | S   | Y   | V   | G   | T   | E | H | I | L | L | G | L | I | R | E | G | E | G | V | A | A | R | V | . | L | N | N | L  | G | V   | S   | L  | N | K | A | R | Q | Q | V | L | Q | L | . | L | . | ... | ... | G | S | N | E | T | . | ... | 147 |   |   |   |     |   |   |   |   |   |   |
| NTDB | id | 610    | V4T04 | RS10165 | WP | 012897346.1 | S  | T      | L    | R  | F       | S | P   | R   | A | E | E   | V | M | T | A | A | S | F | L | A | I | H | N | N | S   | E   | A   | V   | .   | G   | T | E | H | I | L | L | Y | A | L | L | Q | V | E | D | . | G | F | G | L | Q | L | . | L  | . | ... | ... | Q  | K | I | N | I | V | S | L | R | K | E | . | L | E | K   | R   | T | . | G | L | K | V | P   | E   | S | K | . | 153 |   |   |   |   |   |   |
| NTDB | id | 290    | KZH43 | RS10025 | WP | 001109677.1 | T  | E      | L    | P  | F       | S | R   | R   | L | Q | I   | L | F | . | D | E | A | E | Y | V | A | S | . | V | H   | A   | K   | V   | L   | .   | G | T | E | H | V | L | Y | A | I | L | H | D | . | S | N | A | L | A | T | R | . | L | E  | R | A   | G   | F  | S | Y | E | D | K | K | D | Q | V | K | I | A | A | L   | R   | R | N | . | L | E | E | R   | A   | G | W | T | R   | E | D | L | K | A | . |

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NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

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NTDB id 601 KW2 RS02615 WP 021036805.1
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NTDB id 329 STU RS10020 WP 011225298.1
consensus

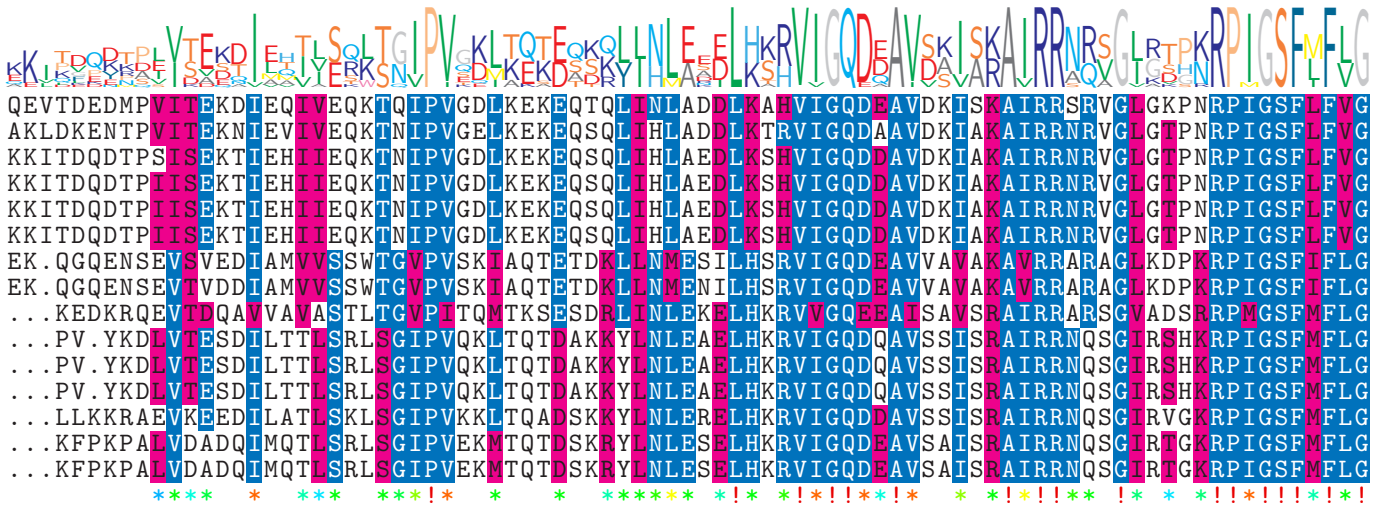
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NTDB id 297 STER RS00545 WP 011680614.1  
NTDB id 329 STU RS10020 WP 011225298.1  
consensus



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NTDB id 601 KW2 RS02615 WP 021036805.1  
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consensus

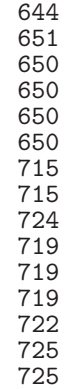


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consensus

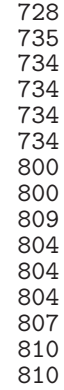
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NTDB id 329 STU RS10020 WP 011225298.1
consensus

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| consensus                                  | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |

- ⓧ non conserved
- ✖ similar
- ⓧ ≥ 50% conserved