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|                                           |                                                                                       |    |
|-------------------------------------------|---------------------------------------------------------------------------------------|----|
| NTDB id 601 KW2 RS02615 WP 021036805.1    | .....M.CQNCNINEAT.....I                                                               | 13 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1  | .....M.CQNCKINDST.....I                                                               | 13 |
| NTDB id 245 SPD RS03860 WP 000882517.1    | .....M.CQNCKINDST.....I                                                               | 13 |
| NTDB id 243 SPR RS03635 WP 000882517.1    | .....M.CQNCKINDST.....I                                                               | 13 |
| NTDB id 241 SP RS04015 WP 000882523.1     | .....M.CQNCKINDST.....I                                                               | 13 |
| NTDB id 59938 L897 RS06015 WP 020837455.1 | .....M.CQNCNINEST.....I                                                               | 13 |
| NTDB id 378 SMU RS02690 WP 002263569.1    | .....M.CQNCKINEAT.....I                                                               | 13 |
| NTDB id 85 BSU 00860 NP 387967.1          | ..MMFGRFTEAQQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS    | 75 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1  | MKFENIKYPTTLDRILEKAEYYAHQYQYGTIESAHLAAATTSGSLAYSLLAGMNVDSDDLIDL.....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    | ...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRVFEDYQAAAILAIGKKPKSSSN..DI  | 79 |
| NTDB id 297 STER RS00545 WP 011680614.1   | ...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI | 81 |
| NTDB id 329 STU RS10020 WP 011225298.1    | ...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI | 81 |
| consensus                                 | .....**.....*                                                                         | *  |

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|-------------------------------------------|-----------------------------------------------------------------------------------------|---------|
| NTDB id 601 KW2 RS02615 WP 021036805.1    | HLTYTSVNGKQKQIDLCQNCYQI...MKS...TEALFGAGNASNGNS.....DEPFN.PFNDIFSALQGGQ.DFNGAASNQ       | 81      |
| NTDB id 281 KZH43 RS03550 WP 000882517.1  | HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLEKGMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP             | 77      |
| NTDB id 245 SPD RS03860 WP 000882517.1    | HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLEKGMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP             | 77      |
| NTDB id 243 SPR RS03635 WP 000882517.1    | HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLEKGMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP             | 77      |
| NTDB id 241 SP RS04015 WP 000882523.1     | HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLEKGMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP             | 77      |
| NTDB id 59938 L897 RS06015 WP 020837455.1 | HLTYTSVNGKQKQIDLCQNCYQI...MKSDPANSTLNGLTPGYRAQ.....DRSTSPFFDDFFFGDLNNFRAFGN..LPN        | 81      |
| NTDB id 378 SMU RS02690 WP 002263569.1    | HLTYANVNGKQKQIDLCQNCYQI...MKTDPENGPLNHLSSQ...N.....SSSINPFFDDFFFGDLNNFRAFNNQDLPN        | 80      |
| NTDB id 85 BSU 00860 NP 387967.1          | QTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLILGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LCSNET....       | 147     |
| NTDB id 610 V4T04 RS10165 WP 012897346.1  | STLRFSPRAEIVMTAASFLAIHNNSEAVCTEHLIYALIQVEDGFGLQLLKL.....QKINIVSLRKELEKRTGLKVPESKK       | 153     |
| NTDB id 290 KZH43 RS10025 WP 001109677.1  | TELPFSRRLQILFDEAEYVASVVAHAKVLGTEHVLVAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA  | 160     |
| NTDB id 289 SPD RS10700 WP 001109677.1    | TELPFSRRLQILFDEAEYVASVVAHAKVLGTEHVLVAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA  | 160     |
| NTDB id 287 SP RS11210 WP 001109712.1     | TELPFSRRLQVLFDDEAEYVASVVAHAKVLGTEHVLVAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA | 160     |
| NTDB id 377 SMU RS09275 WP 002262344.1    | MILEQSHALKITLAEAAAISQVTHAKEVCTEHLVFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERYAGFSKEDIKA   | 164     |
| NTDB id 297 STER RS00545 WP 011680614.1   | DIRAQSPALEAMIQEAQEIASVTGAVEVGEHVLMAFLHKLDMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERNAGLSKQDLKA     | 166     |
| NTDB id 329 STU RS10020 WP 011225298.1    | DIRAQSPALEAMIQEAQGIASVTGAVEVGEHVLMAFLHKLDMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERNAGLSKQDLKA     | 166     |
| consensus                                 | * * * * *                                                                               | * * * * |











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| NTDB id 601 KW2 RS02615 WP 021036805.1    | DKI | V | I | S | N | Q | T | Q | E | T | T | D | E | E | V | P | A | E | 748 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1  | K   | C | N | I | Q | I | K | S | A | K | K | A | E | V | K | S | S | E | 752 |
| NTDB id 245 SPD RS03860 WP 000882517.1    | K   | C | N | I | Q | I | K | S | A | K | K | A | E | V | K | S | S | E | 752 |
| NTDB id 243 SPR RS03635 WP 000882517.1    | K   | C | N | I | Q | I | K | S | A | K | K | A | E | V | K | S | S | E | 752 |
| NTDB id 241 SP RS04015 WP 000882523.1     | K   | C | N | I | Q | I | K | S | A | K | K | A | E | V | K | S | S | E | 752 |
| NTDB id 59938 L897 RS06015 WP 020837455.1 | S   | E | N | I | T | I | K | A | V | K | E | G | D | S | F | L | N | E | 760 |
| NTDB id 378 SMU RS02690 WP 002263569.1    | N   | C | K | I | V | I | K | A | S | N | K | V | E | T | V | T | K | A | 753 |
| NTDB id 85 BSU 00860 NP 387967.1          | D   | C | E | F | V | V | K | T | T | A | K | T | N | . | . | . | . | . | 810 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1  | N   | K | K | I | K | I | A | Q | I | V | . | . | . | . | . | . | . | . | 816 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1  | A   | C | Q | L | K | F | D | I | A | . | . | . | . | . | . | . | . | . | 810 |
| NTDB id 289 SPD RS10700 WP 001109677.1    | A   | C | Q | L | K | F | D | I | A | . | . | . | . | . | . | . | . | . | 810 |
| NTDB id 287 SP RS11210 WP 001109712.1     | A   | C | Q | L | K | F | D | I | A | . | . | . | . | . | . | . | . | . | 810 |
| NTDB id 377 SMU RS09275 WP 002262344.1    | K   | E | K | L | K | F | D | I | V | . | . | . | . | . | . | . | . | . | 813 |
| NTDB id 297 STER RS00545 WP 011680614.1   | K   | D | K | L | T | F | T | V | V | . | . | . | . | . | . | . | . | . | 816 |
| NTDB id 329 STU RS10020 WP 011225298.1    | K   | D | K | L | T | F | T | V | V | . | . | . | . | . | . | . | . | . | 816 |
| consensus                                 | *   | * |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |

-  non conserved
-  similar
-  ≥ 50% conserved