

logo

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|----------------------------------------------|-----------------------------------------------------------------------------------|----|
| NTDB id 601 KW2 RS02615 WP 021036805.1       | .....MTCQNCMINEA.....                                                             | 11 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1     | .....MTCQNCKINDS.....                                                             | 11 |
| NTDB id 245 SPD RS03860 WP 000882517.1       | .....MTCQNCKINDS.....                                                             | 11 |
| NTDB id 243 SPR RS03635 WP 000882517.1       | .....MTCQNCKINDS.....                                                             | 11 |
| NTDB id 241 SP RS04015 WP 000882523.1        | .....MTCQNCKINDS.....                                                             | 11 |
| NTDB id 1158731 QOR56 RS02885 WP 000882544.1 | .....MTCQNCKINES.....                                                             | 11 |
| NTDB id 378 SMU RS02690 WP 002263569.1       | .....MTCQNCKINEA.....                                                             | 11 |
| NTDB id 85 BSU 00860 NP 387967.1             | ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGGTAAKALQALGLGSEKIQKEVESLIG.....R      | 70 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1     | MKFENIKYTPTLDRILEKAEYYAHQYQYGTIESAHLLEAMATTSGSLAYSLLAGMNVDSDDLIDL.....EDLSSH      | 72 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1     | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS  | 70 |
| NTDB id 289 SPD RS10700 WP 001109677.1       | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS  | 70 |
| NTDB id 287 SP RS11210 WP 001109712.1        | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS  | 70 |
| NTDB id 377 SMU RS09275 WP 002262344.1       | ....MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRVFEDYQAAAAILAIGKKPKSSS | 76 |
| NTDB id 297 STER RS00545 WP 011680614.1      | ....MTIYSRKMQAIFHRAQLEAERFESPFLWTWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS | 76 |
| NTDB id 329 STU RS10020 WP 011225298.1       | ....MTIYSRKMQAIFHRAQLEAERFESPFLWTWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS | 76 |
| consensus                                    | .....**.....*                                                                     |    |

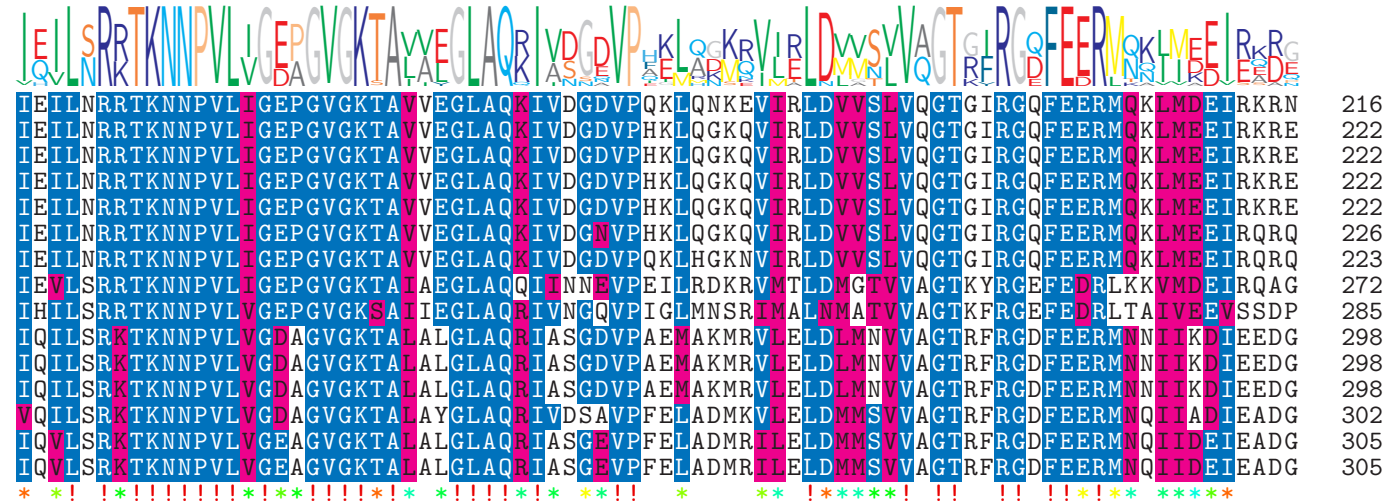
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| NTDB id 281 KZH43 RS03550 WP 000882517.1     | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMR..DF.....DPFGDFFNDLNNF              | 69  |
| NTDB id 245 SPD RS03860 WP 000882517.1       | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMR..DF.....DPFGDFFNDLNNF              | 69  |
| NTDB id 243 SPR RS03635 WP 000882517.1       | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMR..DF.....DPFGDFFNDLNNF              | 69  |
| NTDB id 241 SP RS04015 WP 000882523.1        | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMR..DF.....DPFGDFFNDLNNF              | 69  |
| NTDB id 1158731 QOR56 RS02885 WP 000882544.1 | ...TIHLYTNVNGKQKQVLDLCQNCYQI...IKTDPNPNLESGLNHVSHAPGGIN.....PFFDDFFGD LNNF           | 72  |
| NTDB id 378 SMU RS02690 WP 002263569.1       | ...TIHLYANVNGQKQKQIDLCQNCYQI...MKTDPENGPLNHLISQ..QNSSSIN.....PFFDDFFGD LNNF          | 70  |
| NTDB id 85 BSU 00860 NP 387967.1             | GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLILGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....         | 141 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1     | VKVKRSTLRFSPRAKEVMTAASFLAIHNNSEAVCTEHLILYALLQVEDGFGLQLKL.....QKINIVSLRKETEKR         | 143 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1     | QDETFTTELPFSRRLQILFDEAEYVASV VHAKVLCTEHLVLYAILHDGNALATRI LERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 289 SPD RS10700 WP 001109677.1       | QDETFTTELPFSRRLQILFDEAEYVASV VHAKVLCTEHLVLYAILHDGNALATRI LERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 287 SP RS11210 WP 001109712.1        | QDETFTTELPFSRRLQVLFDEAEYVASV VHAKVLCTEHLVLYAILHDSNALATRI LERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 377 SMU RS09275 WP 002262344.1       | N..DTMLEQSHALKHTLAEEAAISQVTHAKEVCTEHLVLFAMLLNPNLLATRI LELVGFHAKDDGESIRLLDLRKVTERY    | 154 |
| NTDB id 297 STER RS00545 WP 011680614.1      | ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGESEHVLMAFILHKLDMVCRILEVAGFQYKDDSDKPRIIDLRRSLERN    | 156 |
| NTDB id 329 STU RS10020 WP 011225298.1       | ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGESEHVLMAFILHKLDMVCRILEVAGFQYKDDSDKPRIIDLRRSLERN    | 156 |
| consensus                                    | ** * * * * * * * * * * * * * *                                                       |     |

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

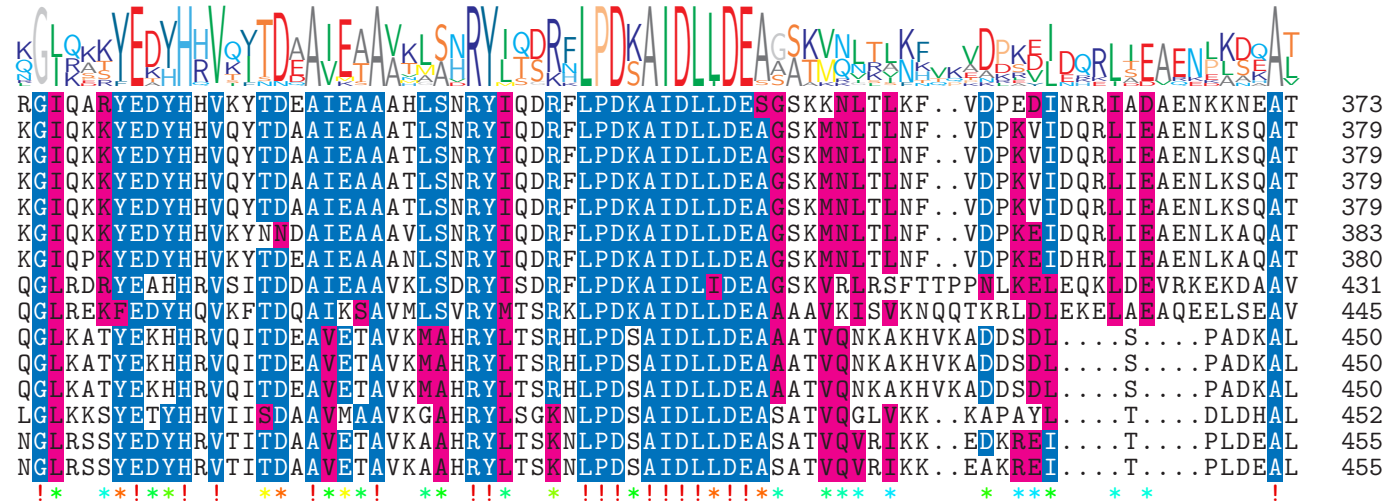
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consensus

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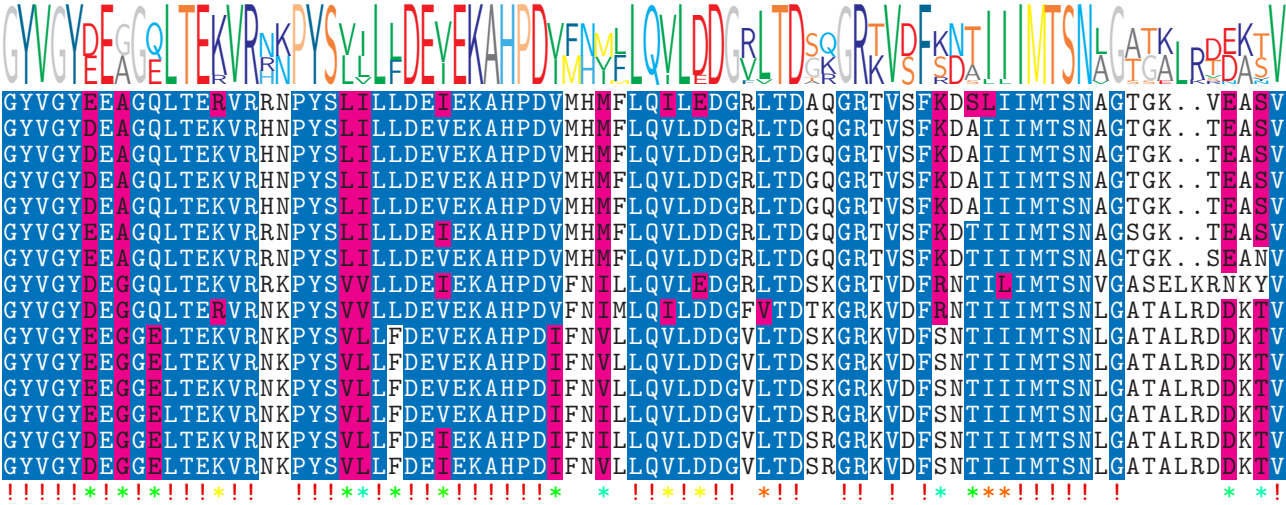
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NTDB id 601 KW2 RS02615 WP 021036805.1  
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| NTDB id   | 601 KW2 RS02615 WP 021036805.1       | VDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQLVADLIDDKIVISNQTTQETAETTDEEVPAAE | 748 |
| NTDB id   | 281 KZH43 RS03550 WP 000882517.1     | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLKAVMTSKGNIIQIKSAKKAEVKSSEKEK..  | 752 |
| NTDB id   | 245 SPD RS03860 WP 000882517.1       | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLKAVMTSKGNIIQIKSAKKAEVKSSEKEK..  | 752 |
| NTDB id   | 243 SPR RS03635 WP 000882517.1       | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLKAVMTSKGNIIQIKSAKKAEVKSSEKEK..  | 752 |
| NTDB id   | 241 SP RS04015 WP 000882523.1        | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLKAVMTSKGNIIQIKSAKKAEVKSSEKEK..  | 752 |
| NTDB id   | 1158731 QOR56 RS02885 WP 000882544.1 | VDLGYDPKMGARPLRRTIQEHIEDAITDYYLENPSEKELRAIMTSNGNIIIKSSKKTEESTKG....    | 753 |
| NTDB id   | 378 SMU RS02690 WP 002263569.1       | VDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKELKAIMTSNGKIVIKASNKVETVTKATSD..   | 753 |
| NTDB id   | 85 BSU 00860 NP 387967.1             | AEEGVLDLEYCARPLRRAIQKHVEDRLSEELLRGNIHKGGQHITVLDDVEDGEFVVKTAKTN.....    | 810 |
| NTDB id   | 610 V4T04 RS10165 WP 012897346.1     | AEEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV.....         | 816 |
| NTDB id   | 290 KZH43 RS10025 WP 001109677.1     | ANQGYDPEMGAARPLRRTLQTEVEDKLAEALLKGDVLVAGSILKIGVKAGQLKFEDIA.....        | 810 |
| NTDB id   | 289 SPD RS10700 WP 001109677.1       | ANQGYDPEMGAARPLRRTLQTEVEDKLAEALLKGDVLVAGSILKIGVKAGQLKFEDIA.....        | 810 |
| NTDB id   | 287 SP RS11210 WP 001109712.1        | ANQGYDPEMGAARPLRRTLQTEVEDKLAEALLKGDVLVAGSTLKIGVKAGQLKFEDIA.....        | 810 |
| NTDB id   | 377 SMU RS09275 WP 002262344.1       | ALAGYDAEMGAARPLRRTLQTEVEDKLAEALLSGKLASGQTLLKIGIQKEKLKFDIV.....         | 813 |
| NTDB id   | 297 STER RS00545 WP 011680614.1      | AKDGYDIEMGAARPLRRTIQTQVEDKLESELLGGQVVSQGTLKIGCSKDKLTFTTVV.....         | 816 |
| NTDB id   | 329 STU RS10020 WP 011225298.1       | AKDGYDIEMGAARPLRRTIQTQVEDKLESELLGGQVVSQGTLKIGCSKDKLTFTTVV.....         | 816 |
| consensus |                                      | * *** *   *  **  *   **** *   *** *   ***** *   *                      |     |

-  non conserved
-  similar
-  >50% conserved