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|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 601 KW2 RS02615 WP 021036805.1      | .....MLCQNCNINEAT.....                                                             | 12 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1    | .....MLCQNCNINDST.....                                                             | 12 |
| NTDB id 245 SPD RS03860 WP 000882517.1      | .....MLCQNCNINDST.....                                                             | 12 |
| NTDB id 243 SPR RS03635 WP 000882517.1      | .....MLCQNCNINDST.....                                                             | 12 |
| NTDB id 241 SP RS04015 WP 000882523.1       | .....MLCQNCNINDST.....                                                             | 12 |
| NTDB id 237553 CFA72 RS03665 WP 002983882.1 | .....MLCQNCNINEST.....                                                             | 12 |
| NTDB id 378 SMU RS02690 WP 002263569.1      | .....MLCQNCNINEAT.....                                                             | 12 |
| NTDB id 85 BSU 00860 NP 387967.1            | ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGETAAKALQALGLGSEKIQKEVESLIG.....R       | 70 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1    | MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDSDDLIDL.....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      | ....MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS   | 76 |
| NTDB id 297 STER RS00545 WP 011680614.1     | ....MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS | 76 |
| NTDB id 329 STU RS10020 WP 011225298.1      | ....MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS | 76 |
| consensus                                   | .....MLCQNCNINEAT.....                                                             |    |

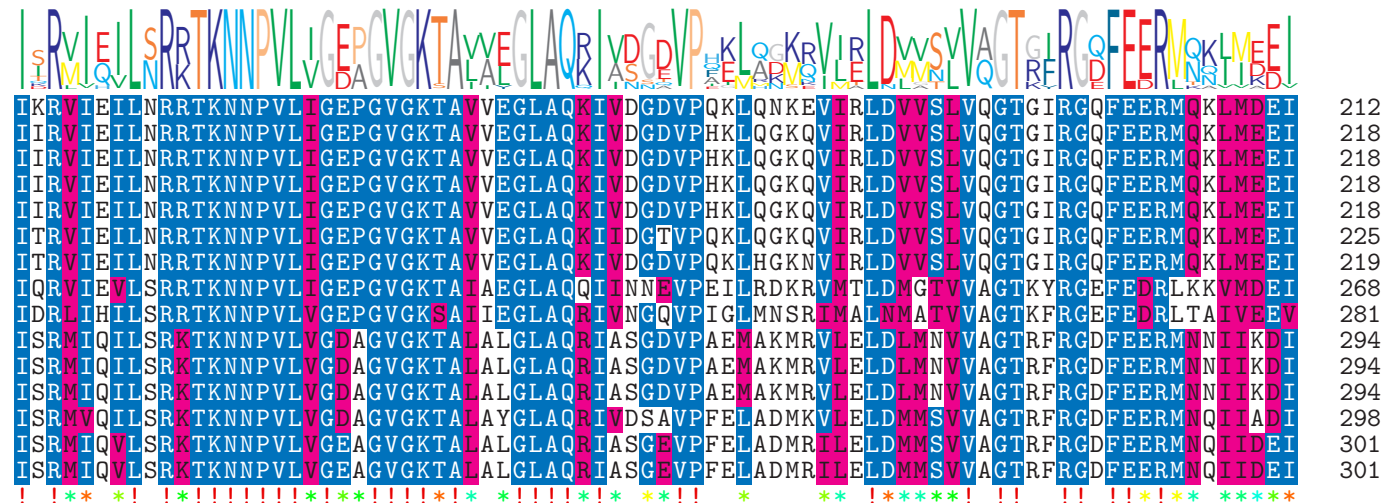
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| NTDB id 281 KZH43 RS03550 WP 000882517.1    | ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF             | 69  |
| NTDB id 245 SPD RS03860 WP 000882517.1      | ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF             | 69  |
| NTDB id 243 SPR RS03635 WP 000882517.1      | ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF             | 69  |
| NTDB id 241 SP RS04015 WP 000882523.1       | ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF             | 69  |
| NTDB id 237553 CFA72 RS03665 WP 002983882.1 | ....IHLYTSVNGKQKQIDLCQNCYQI...MKSDPANSTLNGLTPGYRAQ.....DRSTSPFFDDFFFGDLNNF         | 73  |
| NTDB id 378 SMU RS02690 WP 002263569.1      | ....IHLYANVNGQKQKIDLCQNCYQI...MKTDPENGPLNHLSSQ...N.....SSSINPFDDFFFGDLNNF          | 70  |
| NTDB id 85 BSU 00860 NP 387967.1            | GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTETIILLGLIREGEVGAARVLNNLGVSLNKARQQVLQL.....      | 141 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1    | VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLLKL.....QKINIVSLRKELEKR       | 143 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1    | QDETFTTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLVYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 289 SPD RS10700 WP 001109677.1      | QDETFTTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLVYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 287 SP RS11210 WP 001109712.1       | QDETFTTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLVYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 377 SMU RS09275 WP 002262344.1      | N..DIMLLEQSHALKRTLAEAAAIISQVTHAKEVGTETIHLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERY | 154 |
| NTDB id 297 STER RS00545 WP 011680614.1     | ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGEHVLMAFLLHKLDMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERN    | 156 |
| NTDB id 329 STU RS10020 WP 011225298.1      | ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGEHVLMAFLLHKLDMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERN    | 156 |
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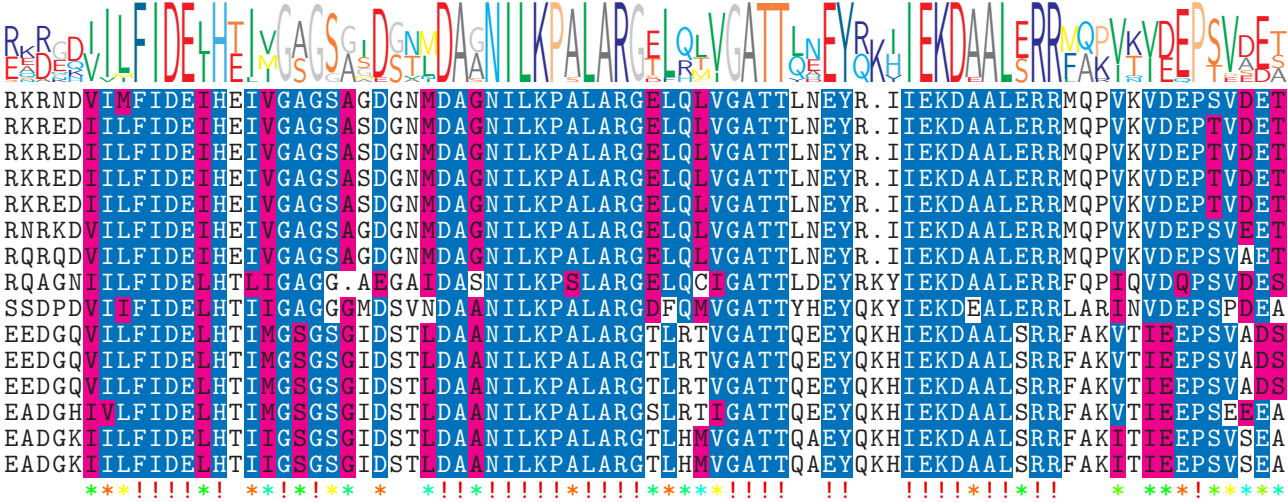
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| NTDB id   | 243    | SPR   | RS03635 | WP | 000882517.1 |
| NTDB id   | 241    | SP    | RS04015 | WP | 000882523.1 |
| NTDB id   | 237553 | CFA72 | RS03665 | WP | 002983882.1 |
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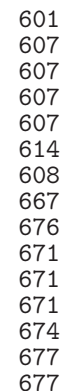
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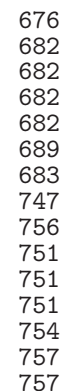
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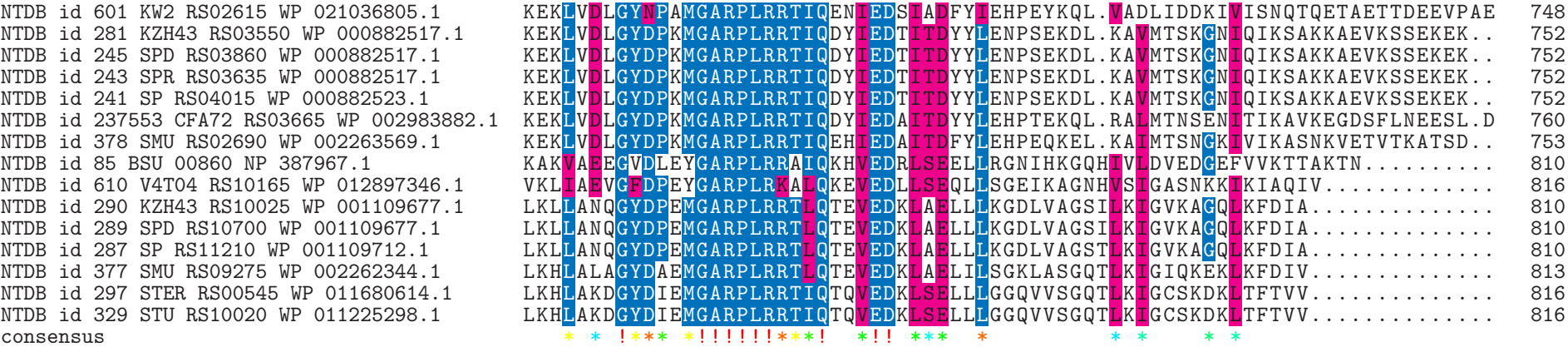
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non conserved  
 similar  
 ≥ 50% conserved