

logo

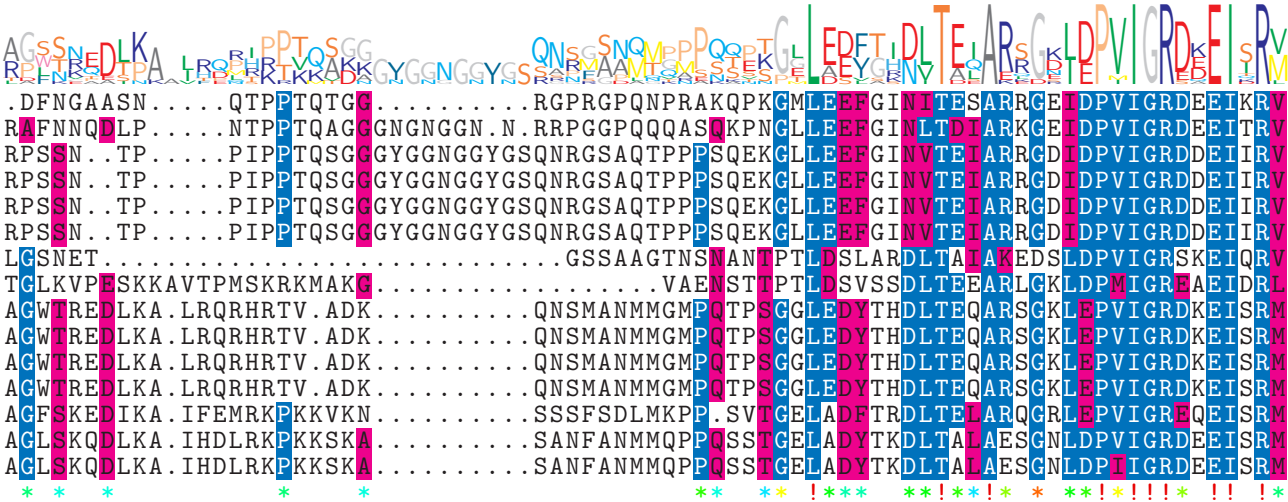
|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 601 KW2 RS02615 WP 021036805.1      | .....MLCQNCNINEA.....                                                              | 11 |
| NTDB id 378 SMU RS02690 WP 002263569.1      | .....MLCQNCNINEA.....                                                              | 11 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1    | .....MLCQNCNINDS.....                                                              | 11 |
| NTDB id 245 SPD RS03860 WP 000882517.1      | .....MLCQNCNINDS.....                                                              | 11 |
| NTDB id 243 SPR RS03635 WP 000882517.1      | .....MLCQNCNINDS.....                                                              | 11 |
| NTDB id 241 SP RS04015 WP 000882523.1       | .....MLCQNCNINDS.....                                                              | 11 |
| NTDB id 85 BSU 00860 NP 387967.1            | ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLI.....GR      | 70 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1    | MKFENIKYPTPTLDRILEKAAEYAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDSDDLII.....DLEDLSSH      | 72 |
| NTDB id 287 SP RS11210 WP 001109712.1       | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS   | 70 |
| NTDB id 336783 EQH44 RS10400 WP 001109675.1 | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS   | 70 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1    | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS   | 70 |
| NTDB id 289 SPD RS10700 WP 001109677.1      | .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS   | 70 |
| NTDB id 377 SMU RS09275 WP 002262344.1      | ....MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS   | 76 |
| NTDB id 297 STER RS00545 WP 011680614.1     | ....MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS | 76 |
| NTDB id 329 STU RS10020 WP 011225298.1      | ....MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS | 76 |
| consensus                                   | *** * *                                                                            |    |

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|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 601 KW2 RS02615 WP 021036805.1      | ...TIHLYTSVNGQKKQIDLCQNCYQI...MKSQGQEALEFGAGNASNGNSDE.....PFNP.FNDIFSALQGG         | 72  |
| NTDB id 378 SMU RS02690 WP 002263569.1      | ...TIHLYANVNGQKKQIDLCQNCYQI...MKTDPENGPLNHLSSQNSSS.....INPFFDDFFGDLNNF             | 70  |
| NTDB id 281 KZH43 RS03550 WP 000882517.1    | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLN NF            | 69  |
| NTDB id 245 SPD RS03860 WP 000882517.1      | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLN NF            | 69  |
| NTDB id 243 SPR RS03635 WP 000882517.1      | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLN NF            | 69  |
| NTDB id 241 SP RS04015 WP 000882523.1       | ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLN NF            | 69  |
| NTDB id 85 BSU 00860 NP 387967.1            | GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....       | 141 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1    | VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGQLLLKL.....QKINIVSLRKELEKR       | 143 |
| NTDB id 287 SP RS11210 WP 001109712.1       | QDETFTTELPFSRRLQVLFD EAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEER | 150 |
| NTDB id 336783 EQH44 RS10400 WP 001109675.1 | QDETFTTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER  | 150 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1    | QDETFTTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER  | 150 |
| NTDB id 289 SPD RS10700 WP 001109677.1      | QDETFTTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER  | 150 |
| NTDB id 377 SMU RS09275 WP 002262344.1      | N..DIMLLEQSHALKRTLAEAAAI SQVTHAKEVGTEHVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERY  | 154 |
| NTDB id 297 STER RS00545 WP 011680614.1     | ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN   | 156 |
| NTDB id 329 STU RS10020 WP 011225298.1      | ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN   | 156 |
| consensus                                   | *** * * * *                                                                        |     |

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|-----------|--------|-------|---------|----|-------------|
| NTDB id   | 601    | KW2   | RS02615 | WP | 021036805.1 |
| NTDB id   | 378    | SMU   | RS02690 | WP | 002263569.1 |
| NTDB id   | 281    | KZH43 | RS03550 | WP | 000882517.1 |
| NTDB id   | 245    | SPD   | RS03860 | WP | 000882517.1 |
| NTDB id   | 243    | SPR   | RS03635 | WP | 000882517.1 |
| NTDB id   | 241    | SP    | RS04015 | WP | 000882523.1 |
| NTDB id   | 85     | BSU   | 00860   | NP | 387967.1    |
| NTDB id   | 610    | V4T04 | RS10165 | WP | 012897346.1 |
| NTDB id   | 287    | SP    | RS11210 | WP | 001109712.1 |
| NTDB id   | 336783 | EQH44 | RS10400 | WP | 001109675.1 |
| NTDB id   | 290    | KZH43 | RS10025 | WP | 001109677.1 |
| NTDB id   | 289    | SPD   | RS10700 | WP | 001109677.1 |
| 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 |
| NTDB id   | 378    | SMU   | RS02690 | WP | 002263569.1 |
| NTDB id   | 281    | KZH43 | RS03550 | WP | 000882517.1 |
| NTDB id   | 245    | SPD   | RS03860 | WP | 000882517.1 |
| NTDB id   | 243    | SPR   | RS03635 | WP | 000882517.1 |
| NTDB id   | 241    | SP    | RS04015 | WP | 000882523.1 |
| NTDB id   | 85     | BSU   | 00860   | NP | 387967.1    |
| NTDB id   | 610    | V4T04 | RS10165 | WP | 012897346.1 |
| NTDB id   | 287    | SP    | RS11210 | WP | 001109712.1 |
| NTDB id   | 336783 | EQH44 | RS10400 | WP | 001109675.1 |
| NTDB id   | 290    | KZH43 | RS10025 | WP | 001109677.1 |
| NTDB id   | 289    | SPD   | RS10700 | WP | 001109677.1 |
| 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
NTDB id 378 SMU RS02690 WP 002263569.1
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consensus

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consensus

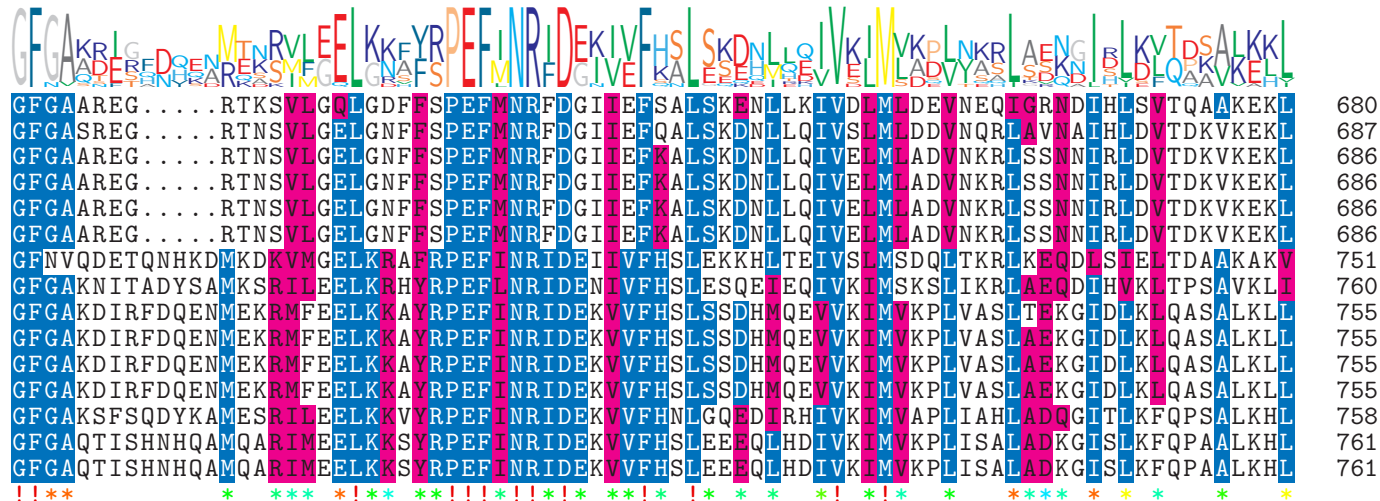
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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
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consensus

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|---------------------------------------------|-------------------------------------------------------------------------|-----|
| NTDB id 601 KW2 RS02615 WP 021036805.1      | VDLGYNPAMGARPLRRTIQENIEDSTADFYIEHPEYKQ.LVADLIDDKIVISNQTQETAETTDEEVP     | 748 |
| NTDB id 378 SMU RS02690 WP 002263569.1      | VDLGYDPKMGARPLRRTIQEHIETDAITDFYLEHPEQKE.LKAITMTSNGKIVIKASNK.VETVTKATSD. | 753 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1    | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.   | 752 |
| NTDB id 245 SPD RS03860 WP 000882517.1      | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.   | 752 |
| NTDB id 243 SPR RS03635 WP 000882517.1      | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.   | 752 |
| NTDB id 241 SP RS04015 WP 000882523.1       | VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.   | 752 |
| NTDB id 85 BSU 00860 NP 387967.1            | AEEGVVDLEYGARPLRRAIQKHVEDRLSEELLRGNTHKGQHIVLDVEDGEFVVKTAKTN.....        | 810 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1    | AEVGFDPFEGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV.....           | 816 |
| NTDB id 287 SP RS11210 WP 001109712.1       | ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDIVAGSTLKIGVKAGQLKFDIA.....            | 810 |
| NTDB id 336783 EQH44 RS10400 WP 001109675.1 | AHQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDIVAGNTLKIGVKAGQLKFDIA.....            | 810 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1    | ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDIVAGSILKIGVKAGQLKFDIA.....            | 810 |
| NTDB id 289 SPD RS10700 WP 001109677.1      | ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDIVAGSILKIGVKAGQLKFDIA.....            | 810 |
| NTDB id 377 SMU RS09275 WP 002262344.1      | ALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV.....            | 813 |
| NTDB id 297 STER RS00545 WP 011680614.1     | AKDGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSQTLLKIGCSKDKLTFTTVV.....           | 816 |
| NTDB id 329 STU RS10020 WP 011225298.1      | AKDGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSQTLLKIGCSKDKLTFTTVV.....           | 816 |
| consensus                                   | * !*****!!!!!!*!! *!! *** ** * * * * * * *                              |     |

- non conserved
- similar
- ≥ 50% conserved