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|                                               |                                                                                   |     |
|-----------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1   | TFDQALYQLVVDKISEQDALHSADSANLRLMLKTK.RGDDY...GSGSLQNVKI.....DME.....               | 368 |
| NTDB id 1203 PSJM300 01605 AFN76401.1         | TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLG.SETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....     | 381 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1     | TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLS.EEANKPLDNRRERMSEMER.....KMTFDGQRRNLK....    | 383 |
| NTDB id 1307 DR RS10055 WP 010888596.1        | TMDAYLAGLFRRHLLITYDKGLERAIDPKEFARLANDASAGLGG.....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA | 394 |
| NTDB id 1086 NMV RS00245 WP 002218487.1       | TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....                                             | 347 |
| NTDB id 1116 NGFG RS10615 WP 003690200.1      | TMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.....                                             | 347 |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1     | TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....                                              | 345 |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1   | TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....                                              | 345 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1    | TLDQHLTELNVNKNIISKHTAHEAALNK.SLF.....                                             | 344 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1     | TLDQHLTELNVNKNIISKHTAHEAALNK.SLF.....                                             | 344 |
| NTDB id 1202 PSJM300 01600 AFN76400.1         | TLDSCLKGLIAKGLISRDSAKEKAKQP.ENF.....                                              | 344 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1     | TLDMCLKGLIAKGLISRRENAKEKAKIP.ENF.....                                             | 344 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1     | TLDQSLKQLIAKGIINLPTARAVAKSP.ESF.....                                              | 344 |
| NTDB id 1092730 ACMFG5 RS04435 WP 000355489.1 | TLDQSLKGLVARGVISPQRTARTAAKQP.ESFL.....                                            | 345 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1      | TLDQSLKGLVARGVISPQRTARTAAKQP.ESFL.....                                            | 345 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1     | TLDQSLKGLVARGVISPQRTARTAAKQP.ESFL.....                                            | 345 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1     | TLDQSLKGLVSRGVISPQRTARTAAKQP.ESFL.....                                            | 345 |
| consensus                                     | !*** * !* **** * *                                                                |     |

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|-----------------------------------------------|-------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1   | APATPAAPAAGRSEPGRAGGFRR | 368 |
| NTDB id 1203 PSJM300 01605 AFN76401.1         | .....                   | 381 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1     | .....                   | 383 |
| NTDB id 1307 DR RS10055 WP 010888596.1        | APATPAAPAAGRSEPGRAGGFRR | 418 |
| NTDB id 1086 NMV RS00245 WP 002218487.1       | .....                   | 347 |
| NTDB id 1116 NGFG RS10615 WP 003690200.1      | .....                   | 347 |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1     | .....                   | 345 |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1   | .....                   | 345 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1    | .....                   | 344 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1     | .....                   | 344 |
| NTDB id 1202 PSJM300 01600 AFN76400.1         | .....                   | 344 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1     | .....                   | 344 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1     | .....                   | 344 |
| NTDB id 1092730 ACMFG5 RS04435 WP 000355489.1 | .....                   | 345 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1      | .....                   | 345 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1     | .....                   | 345 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1     | .....                   | 345 |
| consensus                                     |                         |     |

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved