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|                                              |                                                                                 |     |
|----------------------------------------------|---------------------------------------------------------------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1  | TFDQALYQLVDDKISEQDALHSADSANLRLMLKTK.RGDDY...GSGSLQNVKI.....DME.....             | 368 |
| NTDB id 1203 PSJM300 01605 AFN76401.1        | TFDQALYNLYVQGEITYEDALLHADSSNLRLMIKLG.SETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....    | 381 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1    | TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLS.EEANKPLDNRERMSEMER.....KMTFDGQRRNLK....   | 383 |
| NTDB id 1307 DR RS10055 WP 010888596.1       | TMDAYLAGLFRHLITYDKCLERAIDPKLFARLANDASAGLGG.....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    | TMEQNAKQLIARGVVDAAQEVQSKIELDLKAF.....                                           | 345 |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1  | TMEQNAKQLIARGVVDAAQEVQSKIELDLKAF.....                                           | 345 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1   | TLDQHLTELVNKNIISKHTAHEAALNK.SLF.....                                            | 344 |
| NTDB id 1259 GCO85 RS10305 WP 010947729.1    | TLDQHLTELVNKNIISKHTAHEAALNK.SLF.....                                            | 344 |
| NTDB id 1202 PSJM300 01600 AFN76400.1        | TLDSCLKGLIAKGLISRDSAKEKAKQP.ENF.....                                            | 344 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1    | TLDMCLKGLVAKGLISRAREKAKIP.ENF.....                                              | 344 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1    | TLDQSLKQLIAKGLINLPTARAVAKSP.ESF.....                                            | 344 |
| NTDB id 110323 ACAK31 RS14205 WP 000355489.1 | TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....                                           | 345 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1     | TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....                                           | 345 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1    | TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....                                           | 345 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1    | TLDQSLKGLVSRGVISPQTARTAAKQP.ESFL.....                                           | 345 |
| consensus                                    | !*** * !* **** * *                                                              |     |

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|----------------------------------------------|--------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1  | APATPAAPAAAGRSEPGRAGGFGR | 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       | APATPAAPAAAGRSEPGRAGGFGR | 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 GCO85 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 110323 ACAK31 RS14205 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