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|                |                                |   |     |
|----------------|--------------------------------|---|-----|
|                |                                |   |     |
| NTDB id 1177   | A1552VC RS01165 WP 000422572.1 | TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI...DME...                 | 368 |
| NTDB id 1203   | PSJM300 01605 AFN76401.1       | TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL...EMSDDDPGRSFR...       | 381 |
| NTDB id 1019   | ACIAD RS04205 WP 004922051.1   | TFDQALFDLYDHQHSYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER...KMTFDGQRRNLK...        | 383 |
| NTDB id 1307   | DR RS10055 WP 010888596.1      | TMDAYLAGLFRHLLITYDKGLERAIDPKEFARLANDASAGLG...GASMTPAAPPVPAYNSSASSSTGRGGDFGRGAAA | 395 |
| NTDB id 132226 | GPICK RS15550 WP 039744753.1   | LMDQHLLDLTKMKKIAPEEAYRCAQDKKQFEQYLPEKPAQ...                                     | 356 |
| NTDB id 1116   | NGFG RS10615 WP 003690200.1    | TMDQSLQSLVVRQGLIAPEAARRRAQNSSES..MSF...   | 347 |
| NTDB id 1086   | NMV RS00245 WP 002218487.1     | TMDQSLQSLVVRQGLIAPEVARRRAQNSSES..MSF...   | 347 |
| NTDB id 1185   | GTF74 RS11940 WP 000350195.1   | TMEQNAKQLIARGVVDQAEVQSKIELDLK..AF...  | 345 |
| NTDB id 1176   | A1552VC RS01160 WP 000350195.1 | TMEQNAKQLIARGVVDQAEVQSKIELDLK..AF...  | 345 |
| NTDB id 1283   | ACE17W RS02630 WP 010947729.1  | TLDQHLTELVNKNIISKHTAHEAALNK.S..LF...  | 344 |
| NTDB id 1259   | GCO85 RS10305 WP 010947729.1   | TLDQHLTELVNKNIISKHTAHEAALNK.S..LF...  | 344 |
| NTDB id 1202   | PSJM300 01600 AFN76400.1       | TLDSCLKGLLAKGLISRDSAKEKAKQP.E..NF...  | 344 |
| NTDB id 1194   | PAKAF RS01995 WP 003084552.1   | TLDMCLKGLVAKGLISRENAREKAKIP.E..NF...  | 344 |
| NTDB id 1020   | ACIAD RS04210 WP 011182164.1   | TLDQSLKQLLAKGIINLPTARAVAKSP.E..SF...  | 344 |
| NTDB id 1081   | FDQ49 RS05335 WP 006581387.1   | TLDQSLKGLVSRGVISPQTARTAAKQP.E..SFL...   | 345 |
| NTDB id 1060   | ABD1 RS04380 WP 000355489.1    | TLDQSLKGLVARGVISPQTARTAAKQP.E..SFL...   | 345 |
| NTDB id 1040   | HON27 RS13360 WP 000355489.1   | TLDQSLKGLVARGVISPQTARTAAKQP.E..SFL...   | 345 |
| consensus      |                                | ***** * !* ***** * *  |     |

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|                |                                |                        |     |
| NTDB id 1177   | A1552VC RS01165 WP 000422572.1 | .....                  | 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      | PATPAAPAAGRSEPRACCFGRR | 418 |
| NTDB id 132226 | GPICK RS15550 WP 039744753.1   | .....                  | 356 |
| NTDB id 1116   | NGFG RS10615 WP 003690200.1    | .....                  | 347 |
| NTDB id 1086   | NMV RS00245 WP 002218487.1     | .....                  | 347 |
| NTDB id 1185   | GTF74 RS11940 WP 000350195.1   | .....                  | 345 |
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| 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 1081   | FDQ49 RS05335 WP 006581387.1   | .....                  | 345 |
| NTDB id 1060   | ABD1 RS04380 WP 000355489.1    | .....                  | 345 |
| NTDB id 1040   | HON27 RS13360 WP 000355489.1   | .....                  | 345 |
| consensus      |                                | .....                  |     |

non conserved  
 similar  
 ≥ 50% conserved