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|               |                                |  |     |
|---------------|--------------------------------|--|-----|
|               |                                | TLDQSLKGLVARGYISPTARAKASPESFRL   |     |
|               |                                | MEQALEYRNTLVSEEVSEIQLDNRKXLMUKLSEEGPSEMTSXSQVPSNNTSMEDGSGRREFRCAAPATP            |     |
| NTDB id 1177  | A1552VC RS01165 WP 000422572.1 | TFDQALYQLVVDKISEQDALHSADSANDL.RLMLKTKRGDDY...GSGSL..QNV.KIDME.....               | 368 |
| NTDB id 1203  | PSJM300 01605 AFN76401.1       | TFDQALYNLYVQGEITYEDALLHADSSNDL.RLMIKLGSETDGEHLTSVS...QGL.TLEMSDDDPGRSFR.....     | 381 |
| NTDB id 1019  | ACIAD RS04205 WP 004922051.1   | TFDQALFDLYDHQHSYADALKHADSPNNL.RLQIKLSEEANKPLDNRERM..SEM.ERKMTFDGQRRNLK.....      | 383 |
| NTDB id 1307  | DR RS10055 WP 010888596.1      | TMDAYLAGLFRHHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAAPATP | 399 |
| NTDB id 1185  | GTF74 RS11940 WP 000350195.1   | TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....   | 345 |
| NTDB id 1176  | A1552VC RS01160 WP 000350195.1 | TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....   | 345 |
| NTDB id 1086  | NMV RS00245 WP 002218487.1     | TMDQSLQSLVVRQGLIAPEVARRRAQNS.ESMSF.....  | 347 |
| NTDB id 1116  | NGFG RS10615 WP 003690200.1    | TMDQSLQSLVVRQGLIAPEVARRRAQNS.ESMSF.....  | 347 |
| NTDB id 71547 | DLM RS20160 WP 089082489.1     | TLDDQLQELVRRNIVAPNEARQKAASK.DAF.....   | 345 |
| NTDB id 1283  | ACE17W RS02630 WP 010947729.1  | TLDDQLQELVRRNIVAPNEARQKAASK.DAF.....   | 344 |
| NTDB id 1259  | GCO85 RS10305 WP 010947729.1   | TLDDQLQELVRRNIVAPNEARQKAASK.DAF.....   | 344 |
| NTDB id 1194  | PAKAF RS01995 WP 003084552.1   | TLDDQLQELVRRNIVAPNEARQKAASK.DAF.....   | 344 |
| NTDB id 1202  | PSJM300 01600 AFN76400.1       | TLDMCLKGLVAKGLISRDSAKEKAKQP.ENF.....   | 344 |
| NTDB id 1020  | ACIAD RS04210 WP 011182164.1   | TLDSCLKGLIAGKGLISRDSAKEKAKQP.ENF.....  | 344 |
| NTDB id 1081  | FDQ49 RS05335 WP 006581387.1   | TLDDQLKQLLAKGIINLPTARAVAKSP.ESF.....   | 344 |
| NTDB id 1060  | ABD1 RS04380 WP 000355489.1    | TLDDQLKQLLAKGIINLPTARAVAKSP.ESF.....   | 345 |
| NTDB id 1040  | HON27 RS13360 WP 000355489.1   | TLDDQLKQLLAKGIINLPTARAVAKSP.ESF.....   | 345 |
| consensus     |                                | !*** * !* ***** * * * * *  |     |

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|---------------|--------------------------------|------------------------------------|-----|
|               |                                | ^A^A^A^C^R^S^E^P^C^R^A^C^C^F^C^R^R |     |
| 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      | AAPAAGRSEPGRAGGFGRR                | 418 |
| NTDB id 1185  | GTF74 RS11940 WP 000350195.1   | .....                              | 345 |
| NTDB id 1176  | A1552VC RS01160 WP 000350195.1 | .....                              | 345 |
| NTDB id 1086  | NMV RS00245 WP 002218487.1     | .....                              | 347 |
| NTDB id 1116  | NGFG RS10615 WP 003690200.1    | .....                              | 347 |
| NTDB id 71547 | DLM RS20160 WP 089082489.1     | .....                              | 345 |
| NTDB id 1283  | ACE17W RS02630 WP 010947729.1  | .....                              | 344 |
| NTDB id 1259  | GCO85 RS10305 WP 010947729.1   | .....                              | 344 |
| NTDB id 1194  | PAKAF RS01995 WP 003084552.1   | .....                              | 344 |
| NTDB id 1202  | PSJM300 01600 AFN76400.1       | .....                              | 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     |                                |                                    |     |

- X non conserved
- X similar
- X ≥ 50% conserved