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|                 |                                |   |     |
|-----------------|--------------------------------|---|-----|
|                 |                                | TLDQSLKGLVARGYISPTAREAKSPESFL   |     |
| NTDB id 1177    | A1552VC RS01165 WP 000422572.1 | TFDQALYQLVVDKISEQDALHSAADSANDLRLMLKTKRGDDYGSGLQ...NVKIDME.....                    | 368 |
| NTDB id 1019    | ACIAD RS04205 WP 004922051.1   | TFDQALFDLYDHQHSYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMERKMTFD.....GQRRNLK.....      | 383 |
| NTDB id 1071394 | ACISH1 RS03700 WP 001055657.1  | TFAQSAQWRQAQGR.....   | 326 |
| NTDB id 1307    | DR RS10055 WP 010888596.1      | TMDAYLAGLFRHLITTYDKGLERAID.PKEFARL..ANDASAGLGGASMTPAAPPVPAYNASASSSSTGRGGDFGRGAAAP | 396 |
| NTDB id 1086    | NMV RS00245 WP 002218487.1     | TMDQSLQSLVRQGLIAPEVARRAAQNSEMSF.....  | 347 |
| NTDB id 1116    | NGFG RS10615 WP 003690200.1    | TMDQSLQSLVRQGLIAPEAARRRAQNSEMSF.....  | 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  | TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....  | 344 |
| NTDB id 1259    | GCO85 RS10305 WP 010947729.1   | TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....  | 344 |
| NTDB id 1194    | PAKAF RS01995 WP 003084552.1   | TLDMCLKGLVAKGLISRENAREKAKI.PENF.....  | 344 |
| NTDB id 1202    | PSJM300 01600 AFN76400.1       | TLDSCCLKGLAKGLISRDSAKEKAKQ.PENF.....  | 344 |
| NTDB id 1020    | ACIAD RS04210 WP 011182164.1   | TLDQSLKQLIAGIINLPTARAVAKS.PESF.....   | 344 |
| NTDB id 1060    | ABD1 RS04380 WP 000355489.1    | TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....   | 345 |
| NTDB id 1040    | HON27 RS13360 WP 000355489.1   | TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....   | 345 |
| NTDB id 1081    | FDQ49 RS05335 WP 006581387.1   | TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....   | 345 |
| consensus       |                                | !*** * ** ***** * *   |     |

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|-----------------|--------------------------------|------------------------|-----|
|                 |                                | ATPAAPAAGRSEPERACCFERR |     |
| NTDB id 1177    | A1552VC RS01165 WP 000422572.1 | .....                  | 368 |
| NTDB id 1019    | ACIAD RS04205 WP 004922051.1   | .....                  | 383 |
| NTDB id 1071394 | ACISH1 RS03700 WP 001055657.1  | .....                  | 326 |
| NTDB id 1307    | DR RS10055 WP 010888596.1      | ATPAAPAAGRSEPERACCFERR | 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 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 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