

|           |    |        |         |         |     |             |                                                                                                   |    |
|-----------|----|--------|---------|---------|-----|-------------|---------------------------------------------------------------------------------------------------|----|
| NTDB      | id | 1307   | DR      | RS10055 | WP  | 010888596.1 | MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSG DYDAQGFEP LSASDTRKLMYSMMNERQQRI FE EKRELDFSFA LG             | 80 |
| NTDB      | id | 1116   | NGFG    | RS10615 | WP  | 003690200.1 | ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGMRRINLP EMSAE EVGNM VTSVMNDHQ RKIYQQNLEVD FSFELP              | 76 |
| NTDB      | id | 1086   | NMV     | RS00245 | WP  | 002218487.1 | ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGMRRINLP EMSAE EVGNM VTSVMNDHQ RKIYQQNLEVD FSFELP              | 76 |
| NTDB      | id | 1185   | GTF74   | RS11940 | WP  | 000350195.1 | ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHS DVHRLIFEIMNDAQRSEYE EKKLEVDFS FSLP              | 76 |
| NTDB      | id | 1176   | A152VC  | RS01160 | WP  | 000350195.1 | ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHS DVHRLIFEIMNDAQRSEYE EKKLEVDFS FSLP              | 76 |
| NTDB      | id | 1283   | ACE17C  | RS02630 | WP  | 010947729.1 | ....MDIAELLAFSVKNKSSDLHISAGMPPIRVGDGLRKINLP PLEHKDVIKIIYDIMNDRQRKE YEEFFETDFSFE IA                | 76 |
| NTDB      | id | 1259   | GC085   | RS10305 | WP  | 010947729.1 | ....MDIAELLAFSVKNKSSDLHISAGMPPIRVGDGLRKINLP PLEHKDVIKIIYDIMNDRQRKE YEEFFETDFSFE IA                | 76 |
| NTDB      | id | 1194   | PAKAF   | RS01995 | WP  | 003084552.1 | ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLP PLEHKQVHALIYDIMNDKQRKD FEEFLETDFSFE VP               | 76 |
| NTDB      | id | 1202   | PSJM300 | 01600   | AFN | 76400.1     | ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLP AMDHKQVHALIYDIMNDKQRKD FEEFLETDFSFE VP               | 76 |
| NTDB      | id | 1020   | ACIAD   | RS04210 | WP  | 011182164.1 | ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHEKSEVHNLIYDIMNDKQR RDYEEKLETDFSFE VP              | 76 |
| NTDB      | id | 1081   | FDQ49   | RS05335 | WP  | 006581387.1 | ....MDITELLAFSVKNGASDLHLSAGMPPIRVGDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYEEKLETDFSFE VP               | 76 |
| NTDB      | id | 1060   | ABD1    | RS04380 | WP  | 000355489.1 | ....MDITELLAFSVKNGASDLHLSAGMPPIRVGDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYEEKLETDFSFE VP               | 76 |
| NTDB      | id | 1040   | HON27   | RS13360 | WP  | 000355489.1 | ....MDITELLAFSVKNGASDLHLSAGMPPIRVGDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYEEKLETDFSFE VP               | 76 |
| NTDB      | id | 348329 | EYR02   | RS18755 | WP  | 024744696.1 | ....MDIGYFLKLMTEKNASDMFLTGTGAPVVIKIEGKLYPLGNTGLPPGMVKKIAYS LMD EGQVPQFERE LELNMAIALP              | 76 |
| NTDB      | id | 1177   | A1552VC | RS01165 | WP  | 000422572.1 | ....MEINQYLDGMITHKASDLYITTVGAPILYRVGDGLRAQGEAL.SVA DVTALLHAMMDARQA EF KQTREANFAVVRD               | 75 |
| NTDB      | id | 1203   | PSJM300 | 01605   | AFN | 76401.1     | ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRET VHGV MNEQQRREFTE NH ECNFAISAR              | 76 |
| NTDB      | id | 1019   | ACIAD   | RS04205 | WP  | 004922051.1 | ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEI TPVSKT KL DGM TIAQLIDS ITTQKQRQE FIETH ECNF AILNR          | 76 |
| consensus |    |        |         |         |     |             | * * * * * ! * * * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * |    |

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|---------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1307 DR RS10055 WP 010888596.1      | TMDAYLAGLFRHLLITYDKCLERAID.PKEFAR..LANDASAGL.GGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA | 395 |
| NTDB id 1116 NGFG RS10615 WP 003690200.1    | TMDQSLQSLVRQGLIAPEAAARRRAQNSESMSF.....                                            | 347 |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....                                             | 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 GC085 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       | TLDSCCLKGLIAKGLISRDSAKEKAKQ.PENF.....                                             | 344 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | TLDQSLKQLLAKGIINLPTARAVAKS.PESF.....                                              | 344 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....                                             | 345 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....                                             | 345 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....                                             | 345 |
| NTDB id 348329 EYR02 RS18755 WP 024744696.1 | TFDQCLFRMVKSGEIEQEEALRAADSRDGLALKFRLSEGGSSSEHDPYADYETPAAP.....KISH....GFI.....    | 377 |
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKID.....ME.....               | 368 |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTLE.....MSDDDPGRSFR.....     | 381 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMERK.....MTFDGQRRNLK.....     | 383 |
| consensus                                   | !*** * ** **** * *                                                                |     |

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|---------------------------------------------|-------------------------|-----|
| NTDB id 1307 DR RS10055 WP 010888596.1      | PATPAAPAAGRSEPGRAGGFGRR | 418 |
| 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 |
| 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 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 |
| NTDB id 348329 EYR02 RS18755 WP 024744696.1 | .....                   | 377 |
| 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 |
| consensus                                   |                         |     |

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