

logo

|                                             |                                                                                  |    |
|---------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEEKISLLQYIVKNKILSAEQIALTAQNFQVPMLDINCLDVGTI | 80 |
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | .....                                                                            | 0  |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | .....                                                                            | 0  |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | .....                                                                            | 0  |
| NTDB id 76140 H7Q99 RS04415 WP 001296360.1  | .....                                                                            | 0  |
| NTDB id 1307 DR RS10055 WP 010888596.1      | .....                                                                            | 0  |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | .....                                                                            | 0  |
| NTDB id 1116 NGFG RS10615 WP 003690200.1    | .....                                                                            | 0  |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | .....                                                                            | 0  |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | .....                                                                            | 0  |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | .....                                                                            | 0  |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | .....                                                                            | 0  |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | .....                                                                            | 0  |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | .....                                                                            | 0  |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | .....                                                                            | 0  |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | .....                                                                            | 0  |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | .....                                                                            | 0  |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | .....                                                                            | 0  |
| consensus                                   |                                                                                  |    |

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|                                             |                                                                                   |     |
|---------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | PVNLVNEKLIKRIHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE | 160 |
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | .....                                                                             | 0   |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | .....                                                                             | 0   |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | .....                                                                             | 0   |
| NTDB id 76140 H7Q99 RS04415 WP 001296360.1  | .....                                                                             | 0   |
| NTDB id 1307 DR RS10055 WP 010888596.1      | .....                                                                             | 0   |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | .....                                                                             | 0   |
| NTDB id 1116 NGFG RS10615 WP 003690200.1    | .....                                                                             | 0   |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | .....                                                                             | 0   |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | .....                                                                             | 0   |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | .....                                                                             | 0   |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | .....                                                                             | 0   |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | .....                                                                             | 0   |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | .....                                                                             | 0   |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | .....                                                                             | 0   |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | .....                                                                             | 0   |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | .....                                                                             | 0   |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | .....                                                                             | 0   |
| consensus                                   |                                                                                   |     |

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|           |       |         |         |            |             |
|-----------|-------|---------|---------|------------|-------------|
| NTDB id   | 1251  | GC085   | RS07725 | WP         | 011946523.1 |
| NTDB id   | 1177  | A1552VC | RS01165 | WP         | 000422572.1 |
| NTDB id   | 1203  | PSJM300 | 01605   | AFN76401.1 |             |
| NTDB id   | 1019  | ACIAD   | RS04205 | WP         | 004922051.1 |
| NTDB id   | 76140 | H7Q99   | RS04415 | WP         | 001296360.1 |
| NTDB id   | 1307  | DR      | RS10055 | WP         | 010888596.1 |
| NTDB id   | 1086  | NMV     | RS00245 | WP         | 002218487.1 |
| NTDB id   | 1116  | NGFG    | RS10615 | WP         | 003690200.1 |
| NTDB id   | 1185  | GTF74   | RS11940 | WP         | 000350195.1 |
| NTDB id   | 1176  | A1552VC | RS01160 | WP         | 000350195.1 |
| NTDB id   | 1283  | ACE17W  | RS02630 | WP         | 010947729.1 |
| NTDB id   | 1259  | GC085   | RS10305 | WP         | 010947729.1 |
| NTDB id   | 1194  | PAKAF   | RS01995 | WP         | 003084552.1 |
| NTDB id   | 1202  | PSJM300 | 01600   | AFN76400.1 |             |
| NTDB id   | 1020  | ACIAD   | RS04210 | WP         | 011182164.1 |
| NTDB id   | 1081  | FDQ49   | RS05335 | WP         | 006581387.1 |
| NTDB id   | 1060  | ABD1    | RS04380 | WP         | 000355489.1 |
| NTDB id   | 1040  | HON27   | RS13360 | WP         | 000355489.1 |
| consensus |       |         |         |            |             |

|                                                                                    |                                                |          |                                                                                    |       |       |
|------------------------------------------------------------------------------------|------------------------------------------------|----------|------------------------------------------------------------------------------------|-------|-------|
|  |                                                |          |  |       |       |
| DSGDLEGLEISADDEDQDIDTATSVTDDAPIVKF                                                 | VNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATPPASLS | 240      |                                                                                    |       |       |
| MEINQYLDGMLTHKASDIYITV                                                             | GAPILYRVDGELRAQGEAL.SVA                        | 44       |                                                                                    |       |       |
| MEFEKLLRLMVEKGGSDLFITV                                                             | GVPSPMKVNGKILPVNKTPTMSPE                       | 45       |                                                                                    |       |       |
| MDFNDLLNLMAKHKASDLFITV                                                             | GVEPSLKINGEITPVSKTKLDGD                        | 45       |                                                                                    |       |       |
| MNMEETIVALSVKHNVSDLHLCS                                                            | AWPARWRIRGRMEA...APFDAP                        | 42       |                                                                                    |       |       |
| MTSGIDITDILRLAADKGASDITLAA                                                         | GLPPQFKLSGDYDAQGFEPISAS                        | 49       |                                                                                    |       |       |
| MQITDLLAFGAKNKASDLHLSS                                                             | GISPMIRVHGDMMRRINLPMSAE                        | 45       |                                                                                    |       |       |
| MQITDLLAFGAKNKASDLHLSS                                                             | GISPMIRVHGDMMRRINLPMSAE                        | 45       |                                                                                    |       |       |
| MDIAELLEFSVKHNASDLHLSA                                                             | GVPPMVRIDGVRKLGVPFTHS                          | 45       |                                                                                    |       |       |
| MDIAELLEFSVKHNASDLHLSA                                                             | GVPPMVRIDGVRKLGVPFTHS                          | 45       |                                                                                    |       |       |
| MDIAELLAFSVKNKSSDLHTSA                                                             | GMPPMIRVDGDLRKINLPPLLEHK                       | 45       |                                                                                    |       |       |
| MDIAELLAFSVKNKSSDLHTSA                                                             | GMPPMIRVDGDLRKINLPPLLEHK                       | 45       |                                                                                    |       |       |
| MDITELLAFSAKQGASDLHLSA                                                             | GLPPMIRVDGVRRRINLPPLLEHK                       | 45       |                                                                                    |       |       |
| MDITELLAFSAKQGASDLHLSS                                                             | GLPPMIRVDGDVRRINLPAMDHK                        | 45       |                                                                                    |       |       |
| MDITELLAFSVQNRASDLHLSA                                                             | GIPPMIRVDGEVRRINLPAMDHS                        | 45       |                                                                                    |       |       |
| MDITELLAFSVKNGASDLHLSA                                                             | GMPPMIRVDGEVRRINLPALCHK                        | 45       |                                                                                    |       |       |
| MDITELLAFSVKNGASDLHLSA                                                             | GMPPMIRVDGEVRRINLPALCHK                        | 45       |                                                                                    |       |       |
| MDITELLAFSVKNGASDLHLSA                                                             | GMPPMIRVDGEVRRINLPALCHK                        | 45       |                                                                                    |       |       |
| ***                                                                                | *****                                          | *!!***** | *****!                                                                             | ***** | ***** |

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|-----------|-------|---------|---------|------------|-------------|
| NTDB id   | 1251  | GC085   | RS07725 | WP         | 011946523.1 |
| NTDB id   | 1177  | A1552VC | RS01165 | WP         | 000422572.1 |
| NTDB id   | 1203  | PSJM300 | 01605   | AFN76401.1 |             |
| NTDB id   | 1019  | ACIAD   | RS04205 | WP         | 004922051.1 |
| NTDB id   | 76140 | H7Q99   | RS04415 | WP         | 001296360.1 |
| NTDB id   | 1307  | DR      | RS10055 | WP         | 010888596.1 |
| NTDB id   | 1086  | NMV     | RS00245 | WP         | 002218487.1 |
| NTDB id   | 1116  | NGFG    | RS10615 | WP         | 003690200.1 |
| NTDB id   | 1185  | GTF74   | RS11940 | WP         | 000350195.1 |
| NTDB id   | 1176  | A1552VC | RS01160 | WP         | 000350195.1 |
| NTDB id   | 1283  | ACE17W  | RS02630 | WP         | 010947729.1 |
| NTDB id   | 1259  | GC085   | RS10305 | WP         | 010947729.1 |
| NTDB id   | 1194  | PAKAF   | RS01995 | WP         | 003084552.1 |
| NTDB id   | 1202  | PSJM300 | 01600   | AFN76400.1 |             |
| NTDB id   | 1020  | ACIAD   | RS04210 | WP         | 011182164.1 |
| NTDB id   | 1081  | FDQ49   | RS05335 | WP         | 006581387.1 |
| NTDB id   | 1060  | ABD1    | RS04380 | WP         | 000355489.1 |
| NTDB id   | 1040  | HON27   | RS13360 | WP         | 000355489.1 |
| consensus |       |         |         |            |             |

|                                                                                    |     |
|------------------------------------------------------------------------------------|-----|
| SRITARIKVMSNLDISERRIPQDGGFKMKISKSR.AIDFRVSTCPTSAGEKVVMRVLDSGAAKLGTEALGFNPVQRTNFI   | 319 |
| DVTALLHAMDDARQAE..FKQTRFANFAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIIP..TFEELKLPV....LQ    | 114 |
| MTRETIVHGVMNQQRRE..FTENHECNFAISARG..TGRFRVSAFYQRNLAGMVLRRRIETNIP..TIEDLKLPDV....LK | 116 |
| MIAQLIDSITTQKQRQE..FIETHECNFAILNREKNERFRVSAFQQRDMPGMVIRRIETKIP..SPDDLHLPPI....LK   | 117 |
| DVEELLREWLDDQRTI..LLENGQLDFAVSLAE.NQRLRGSFAFQRCGISLALRLLP SHCP..QLEQLGAPPV....LP   | 113 |
| DTRKLMYSMMNERQQRI..FEEKRELDIFSALGD..KARFRVNAFMQRGNVGGVMRLIPTTVR..TIAEMGLPQT....VI  | 120 |
| EVGNMVTSMNDHQRKI..YQQNLEVDFSFEIPN..VARFRVNAFNIGRGPAAVFRTIPSTVL..SLEELKAPSI....FQ   | 116 |
| EVGNMVTSMNDHQRKI..YQQNLEVDFSFEIPN..VARFRVNAFNIGRGPAAVFRTIPSTVL..SLEELKAPSI....FQ   | 116 |
| DVHRLIFEIMNDAQRSE..YEEKLEVDFSFEIPN..VGRFRVNAFHQARGCSAVFRTIPTVIP..TLEQLDAPEI....FS  | 116 |
| DVHRLIFEIMNDAQRSE..YEEKLEVDFSFEIPN..VGRFRVNAFHQARGCSAVFRTIPTVIP..TLEQLDAPEI....FS  | 116 |
| DVIKIIYDIMNDRQRKE..YEEFFETDFSFEIAN..LARFRVNAFNQSRGAAVFRTIPSEIL..SMEDLGLPPI....FK   | 116 |
| DVIKIIYDIMNDRQRKE..YEEFFETDFSFEIAN..LARFRVNAFNQSRGAAVFRTIPSEIL..SMEDLGLPPI....FK   | 116 |
| QVHALIYDIMNDKQRKD..FEEFLETDFSFEVPG..VARFRVNAFNQNRGAGAVFRTIPSKVL..TMEELGMGEV....FK  | 116 |
| QVHALIYDIMNDKQRKD..FEEFLETDFSFEVPG..VARFRVNAFNQNRGAGAVFRTIPSKVL..TMEELGMGEV....FR  | 116 |
| EVHNLIIYDIMNDKQRD..YEEKLETDFSFEVPG..LARFRVNAFNQNRGAGAVFRTIPSKVL..TLEELGLGKI....FR  | 116 |
| DVHRLVYDIMNDKQRD..YEEKLETDFSFEVPG..VARFRVNAFNQNRGAGAVFRTIPSKVL..TMEELGLGQI....FK   | 116 |
| DVHRLVYDIMNDKQRD..YEEKLETDFSFEVPG..VARFRVNAFNQNRGAGAVFRTIPSKVL..TMEELGLGQI....FK   | 116 |
| DVHRLVYDIMNDKQRD..YEEKLETDFSFEVPG..VARFRVNAFNQNRGAGAVFRTIPSKVL..TMEELGLGQI....FK   | 116 |
| ** ***** ** *!***** ** *!***** ** ***** *                                          |     |

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NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

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| NTDB id   | 1251  | GC085   | RS07725 | WP         | 011946523.1 |
| NTDB id   | 1177  | A1552VC | RS01165 | WP         | 000422572.1 |
| NTDB id   | 1203  | PSJM300 | 01605   | AFN76401.1 |             |
| NTDB id   | 1019  | ACIAD   | RS04205 | WP         | 004922051.1 |
| NTDB id   | 76140 | H7Q99   | RS04415 | WP         | 001296360.1 |
| NTDB id   | 1307  | DR      | RS10055 | WP         | 010888596.1 |
| NTDB id   | 1086  | NMV     | RS00245 | WP         | 002218487.1 |
| NTDB id   | 1116  | NGFG    | RS10615 | WP         | 003690200.1 |
| NTDB id   | 1185  | GTF74   | RS11940 | WP         | 000350195.1 |
| NTDB id   | 1176  | A1552VC | RS01160 | WP         | 000350195.1 |
| NTDB id   | 1283  | ACE17W  | RS02630 | WP         | 010947729.1 |
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| NTDB id   | 1194  | PAKAF   | RS01995 | WP         | 003084552.1 |
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| NTDB id   | 1020  | ACIAD   | RS04210 | WP         | 011182164.1 |
| NTDB id   | 1081  | FDQ49   | RS05335 | WP         | 006581387.1 |
| NTDB id   | 1060  | ABD1    | RS04380 | WP         | 000355489.1 |
| NTDB id   | 1040  | HON27   | RS13360 | WP         | 000355489.1 |
| consensus |       |         |         |            |             |

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| KAVRDDFTNQGLIELGFKEADLVNLKLYKAVGCEQCTSGYRGRVGLFEVLPMTKELGQLIMSGGNS..LDILKLAQSEGM | 547 |
| .....DKNKGRHGVEVLNLSPRIADLIRRGELHELKATMARSQEVGM                                  | 312 |
| .....TPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLCGM                               | 314 |
| .....THDQSSRRAAVEVLINTPLLSDYIRQGEITYKIKELMARSQELGM                               | 315 |
| .....D.KQEGRVALFELLINTPAVGNLIREGKTHQLPHVIQTGQQVGM                                | 310 |
| .....RADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM                                | 318 |
| .....THDGNGRVASHEILIANPAVRNLIRENKITTQINSVLQTGGQASGM                              | 314 |
| .....THDGNGRVASHEILIANPAVRNLIRENKITTQINSVLQTGGQASGM                              | 314 |
| .....R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM                                | 313 |
| .....R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM                                | 313 |
| .....K.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGM                                | 313 |
| .....K.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGM                                | 313 |
| .....K.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGSLSGM                               | 313 |
| .....K.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGSLSGM                               | 313 |
| .....K.EGGGRVAAHEIMIGTPAIRNLIREGKVAQMYSIIQTGATHGM                                | 313 |
| .....K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGANHGM                                | 313 |
| .....K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGANHGM                                | 313 |
| .....K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGANHGM                                | 313 |
| * **!*!!!!!!*****!!!!* ***** ***** !!                                            |     |

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|-----------|-------|---------|---------|------------|-------------|
| NTDB id   | 1251  | GC085   | RS07725 | WP         | 011946523.1 |
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| NTDB id   | 1019  | ACIAD   | RS04205 | WP         | 004922051.1 |
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| NTDB id   | 1307  | DR      | RS10055 | WP         | 010888596.1 |
| NTDB id   | 1086  | NMV     | RS00245 | WP         | 002218487.1 |
| NTDB id   | 1116  | NGFG    | RS10615 | WP         | 003690200.1 |
| NTDB id   | 1185  | GTF74   | RS11940 | WP         | 000350195.1 |
| NTDB id   | 1176  | A1552VC | RS01160 | WP         | 000350195.1 |
| NTDB id   | 1283  | ACE17W  | RS02630 | WP         | 010947729.1 |
| NTDB id   | 1259  | GC085   | RS10305 | WP         | 010947729.1 |
| NTDB id   | 1194  | PAKAF   | RS01995 | WP         | 003084552.1 |
| NTDB id   | 1202  | PSJM300 | 01600   | AFN76400.1 |             |
| NTDB id   | 1020  | ACIAD   | RS04210 | WP         | 011182164.1 |
| NTDB id   | 1081  | FDQ49   | RS05335 | WP         | 006581387.1 |
| NTDB id   | 1060  | ABD1    | RS04380 | WP         | 000355489.1 |
| NTDB id   | 1040  | HON27   | RS13360 | WP         | 000355489.1 |
| consensus |       |         |         |            |             |

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| LTIFQSGIEKVKEGITITIEEVNRVTVD.....                                                | 574 |
| QTFDQALYQLVVDKIKSEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....            | 368 |
| QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....    | 381 |
| QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMER.....KMTFDGQRRNLK....   | 383 |
| LTFFQSYQQRVGEGRLL.....                                                           | 326 |
| VTMDAYLAGLFRHHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA | 394 |
| QTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....                                           | 347 |
| QTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.....                                           | 347 |
| QTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....                                            | 345 |
| QTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....                                            | 345 |
| QTLDDHLTELNVNKNIISKHTAHEAALN.KSLF.....                                           | 344 |
| QTLDDHLTELNVNKNIISKHTAHEAALN.KSLF.....                                           | 344 |
| QTLDMCLKGLVAKGLISRENAREKAKI.PENF.....                                            | 344 |
| QTLDSCLKGLLAKGLISRDSAKEKAKQ.PENF.....                                            | 344 |
| TTLDDQSLKQLLAKGIINLPTARAVAKS.PESF.....                                           | 344 |
| TTLDDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....                                          | 345 |
| TTLDDQSLKGLVARGVISPQTARTAAKQ.PESFL.....                                          | 345 |
| TTLDDQSLKGLVARGVISPQTARTAAKQ.PESFL.....                                          | 345 |
| *!*** * ** ***** * *                                                             |     |

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|                                             |                          |     |
|---------------------------------------------|--------------------------|-----|
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                    | 574 |
| 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 76140 H7Q99 RS04415 WP 001296360.1  | .....                    | 326 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | APATPAAPAAGRSEPGRAGGFGRR | 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 GC085 RS10305 WP 010947729.1   | .....                    | 344 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | .....                    | 344 |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | .....                    | 344 |
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| 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