```
logo                                                
```

logo



```
NTDB id 1307 DR RS10055 WP 010888596.1      LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE  239
NTDB id 1116 NGFG RS10615 WP 003690200.1    LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK  235
NTDB id 1086 NMV RS00245 WP 002218487.1     LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK  235
NTDB id 1185 GTF74 RS11940 WP 000350195.1   LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAK  235
NTDB id 1176 A1552VC RS01160 WP 000350195.1 LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAK  235
NTDB id 1283 ACE17W RS02630 WP 010947729.1  LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK  235
NTDB id 1259 GCO85 RS10305 WP 010947729.1   LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK  235
NTDB id 1194 PAKAF RS01995 WP 003084552.1   LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
NTDB id 1202 PSJM300 01600 AFN76400.1       LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
NTDB id 1020 ACIAD RS04210 WP 011182164.1   LTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1   LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
NTDB id 1060 ABD1 RS04380 WP 000355489.1    LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
NTDB id 1040 HON27 RS13360 WP 000355489.1   LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
NTDB id 163922 ATY49 RS03755 WP 011407601.1 LTIEDPIEYLHKHKMSIVNQREVGLDTHAFQSALKNAMREAPDVILIGEILDAETMEAAIAFAETGHLCLATLHSNNADQ  235
NTDB id 1177 A1552VC RS01165 WP 000422572.1 LTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQ  233
NTDB id 1203 PSJM300 01605 AFN76401.1       ISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQ  235
NTDB id 1019 ACIAD RS04205 WP 004922051.1   ITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNANQ  236
consensus                                   ***!!!!!**!  ******!!!*****! **  !!****!**!!*!!*!!***  !** *!***!!!!!!***!!!***!**
```

logo



```
NTDB id 1307 DR RS10055 WP 010888596.1      SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV  319
NTDB id 1116 NGFG RS10615 WP 003690200.1    TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ  315
NTDB id 1086 NMV RS00245 WP 002218487.1     TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ  315
NTDB id 1185 GTF74 RS11940 WP 000350195.1   TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ  314
NTDB id 1176 A1552VC RS01160 WP 000350195.1 TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ  314
NTDB id 1283 ACE17W RS02630 WP 010947729.1  TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGMQ  314
NTDB id 1259 GCO85 RS10305 WP 010947729.1   TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGMQ  314
NTDB id 1194 PAKAF RS01995 WP 003084552.1   TIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGMQ  314
NTDB id 1202 PSJM300 01600 AFN76400.1       TIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGMQ  314
NTDB id 1020 ACIAD RS04210 WP 011182164.1   TIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGMT  314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1   TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT  314
NTDB id 1060 ABD1 RS04380 WP 000355489.1    TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT  314
NTDB id 1040 HON27 RS13360 WP 000355489.1   TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT  314
NTDB id 1019 ACIAD RS04205 WP 004922051.1   TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGMQ  316
NTDB id 163922 ATY49 RS03755 WP 011407601.1 TIERILNFFPESAHNNVLMNLALNLRAVISQRLVKGLDGRR.RPATEVLLNTPMIRDLLRRGQVHEVKQAMEESLEEGMQ  314
NTDB id 1177 A1552VC RS01165 WP 000422572.1 ALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ  313
NTDB id 1203 PSJM300 01605 AFN76401.1       ALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ  315
NTDB id 1019 ACIAD RS04205 WP 004922051.1   TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGMQ  316
consensus                                   ***!*************** *!***!  ****!  !***   *********!**************!* ******* *****   !!*
```

logo



```
NTDB id 1307 DR RS10055 WP 010888596.1      TMDAYLAGLFRRHLITYDKGLERAID.PKEF..ARLANDASAGLGG.ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA  395
NTDB id 1116 NGFG RS10615 WP 003690200.1    TMDQSLQSLVRQGLIAPEAARRRAQNSESMS..F.....................................................  347
NTDB id 1086 NMV RS00245 WP 002218487.1     TMDQSLQSLVRQGLIAPEVARRRAQNSESMS..F.....................................................  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       TLDSCLKGLLAKGLISRDSAKEKAKQ.PENF.....................................................  344
NTDB id 1020 ACIAD RS04210 WP 011182164.1   TLDQSLKQLLAKGIINLPTARAVAKS.PESF.....................................................  344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1   TLDQSLKGLVSRGVISPQTARTAAKQ.PESF..L..................................................  345
NTDB id 1060 ABD1 RS04380 WP 000355489.1    TLDQSLKGLVARGVISPQTARTAAKQ.PESF..L..................................................  345
NTDB id 1040 HON27 RS13360 WP 000355489.1   TLDQSLKGLVARGVISPQTARTAAKQ.PESF..L..................................................  345
NTDB id 163922 ATY49 RS03755 WP 011407601.1 TFDQCLFRMVKSGEIEQEEALRAADSRDGLALKFRLSEDGSGEHDPYADYETPAAP........KISH....GFI.....  377
NTDB id 1177 A1552VC RS01165 WP 000422572.1 TFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDY...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                                   !***  *   **  *****    *    *       *
```

logo



```
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 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
NTDB id 163922 ATY49 RS03755 WP 011407601.1 .......................  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
```

X non conserved
X similar
X ≥ 50% conserved