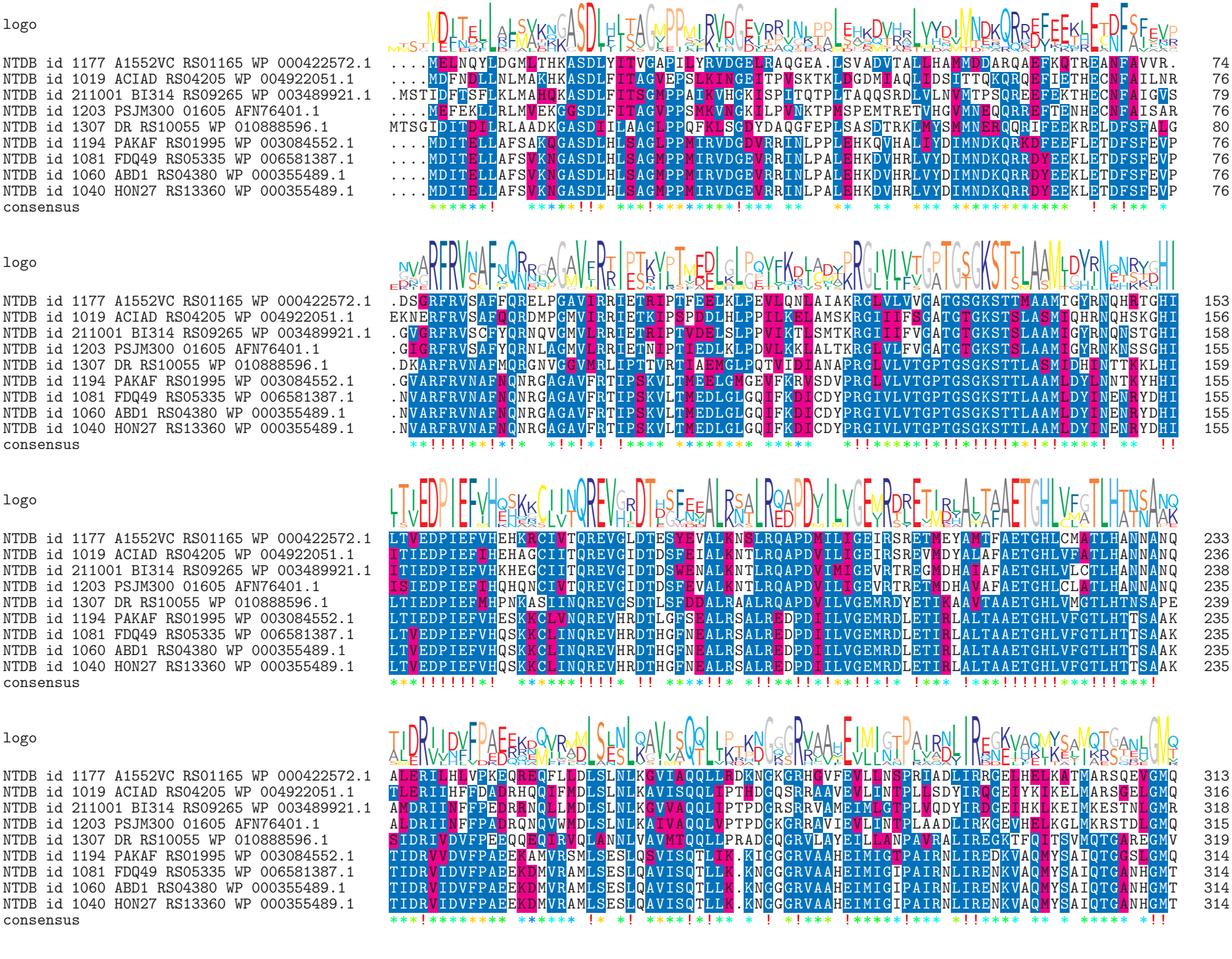

logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1 ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEA.LSVADVTALLHAMMDDARQAEFKQTREANFAVVR. 74
NTDB id 1019 ACIAD RS04205 WP 004922051.1 ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILNR 76
NTDB id 211001 BI314 RS09265 WP 003489921.1 .MSTIDFTSFLKLMAHQKASDLFITSGMPPAIKVHGKISPITQTPLTAQQSRDLVLNVMTPSQREEFEKTHECNFAIGVS 79
NTDB id 1203 PSJM300 01605 AFN76401.1 ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISAR 76
NTDB id 1307 DR RS10055 WP 010888596.1 MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFALG 80
NTDB id 1194 PAKAF RS01995 WP 003084552.1 ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP 76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1 ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP 76
NTDB id 1060 ABD1 RS04380 WP 000355489.1 ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP 76
NTDB id 1040 HON27 RS13360 WP 000355489.1 ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP 76
consensus
logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1 .DSGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHI 153
NTDB id 1019 ACIAD RS04205 WP 004922051.1 EKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGHI 156
NTDB id 211001 BI314 RS09265 WP 003489921.1 .GVGRFRVSCFYQRNQVGMVLRRIETRIPTVDELSLPPVIKTLSMTKRGIIIFVGATGTGKSTSLAAMIGYRNQNSTGHI 158
NTDB id 1203 PSJM300 01605 AFN76401.1 .GIGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI 155
NTDB id 1307 DR RS10055 WP 010888596.1 .DKARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI 159
NTDB id 1194 PAKAF RS01995 WP 003084552.1 .GVARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI 155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1 .NVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI 155
NTDB id 1060 ABD1 RS04380 WP 000355489.1 .NVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI 155
NTDB id 1040 HON27 RS13360 WP 000355489.1 .NVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI 155
consensus
logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1 LTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQ 233
NTDB id 1019 ACIAD RS04205 WP 004922051.1 ITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNANQ 236
NTDB id 211001 BI314 RS09265 WP 003489921.1 ITIEDPIEFVHKHEGCIITQREVGIDTDSWENALKNTLRQAPDVIMIGEVRTREGMDHAIAFAETGHLVLCTLHANNANQ 238
NTDB id 1203 PSJM300 01605 AFN76401.1 ISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQ 235
NTDB id 1307 DR RS10055 WP 010888596.1 LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE 239
NTDB id 1194 PAKAF RS01995 WP 003084552.1 LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK 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
consensus
logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1 ALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ 313
NTDB id 1019 ACIAD RS04205 WP 004922051.1 TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGMQ 316
NTDB id 211001 BI314 RS09265 WP 003489921.1 AMDRIINFFPEDRRNQLLMDLSLNLKGVVAQQLIPTPDGRSRRVAMEIMLGTPLVQDYIRDGEIHKLKEIMKESTNLGMR 318
NTDB id 1203 PSJM300 01605 AFN76401.1 ALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ 315
NTDB id 1307 DR RS10055 WP 010888596.1 SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGARFGMV 319
NTDB id 1194 PAKAF RS01995 WP 003084552.1 TIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIK.KIGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGMQ 314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1 TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK.KNGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT 314
NTDB id 1060 ABD1 RS04380 WP 000355489.1 TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK.KNGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT 314
NTDB id 1040 HON27 RS13360 WP 000355489.1 TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLK.KNGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT 314
consensus

```
logo
```


```
NTDB id 1177 A1552VC RS01165 WP 000422572.1  TFDQALYQLVVDDKISEQDALHSADSANDLRLMLK.TKRGDDYG...SGSLQNVK....IDME................  368
NTDB id 1019 ACIAD RS04205 WP 004922051.1    TFDQALFDLYDHQHISYADALKHADSPNNLRLQIK.LSEEANKPLDNRERMSEME....RKMTFDGQRRNLK........  383
NTDB id 211001 BI314 RS09265 WP 003489921.1  TFDQSLFELYQAGEISYEDALRYADSQNEVRLRIK.LSQGGDAKTLSQG.LDGVE....ISEVR...............  376
NTDB id 1203 PSJM300 01605 AFN76401.1        TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIK.LGSETDGEHLTSV.SQGLT....LEMSDDDPGRSFR........  381
NTDB id 1307 DR RS10055 WP 010888596.1       TMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPA.APPVPAYNSASSSSTGRGGDFGRGAAAPAT  398
NTDB id 1194 PAKAF RS01995 WP 003084552.1    TLDMCLKGLVAKGLISRENAREKAKIPENF.................................................  344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    TLDQSLKGLVSRGVISPQTARTAAKQPESFL................................................  345
NTDB id 1060 ABD1 RS04380 WP 000355489.1     TLDQSLKGLVARGVISPQTARTAAKQPESFL................................................  345
NTDB id 1040 HON27 RS13360 WP 000355489.1    TLDQSLKGLVARGVISPQTARTAAKQPESFL................................................  345
consensus                                    !*!* !  *!*  ***!*    **   !   *   *                                   *
```

```
logo
```


```
NTDB id 1177 A1552VC RS01165 WP 000422572.1  ....................   368
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ....................   383
NTDB id 211001 BI314 RS09265 WP 003489921.1  ....................   376
NTDB id 1203 PSJM300 01605 AFN76401.1        ....................   381
NTDB id 1307 DR RS10055 WP 010888596.1       PAAPAAGRSEPGRAGGFGRR   418
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ....................   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 $\geq 50\%$ conserved