```
logo

NTDB id 1253 GC085 RS04835 WP 011215094.1     MLKLLKPKHRSILGIDISSSAVKILEISGSGEDICVEGYGREEIPASALEGNMIKDVDVVANCIKKLVERLKFTSKNVAL   80
NTDB id 189662 BC375 RS01630 WP 038200243.1  .MGLFSKKQSVLVGVDISSTAVKLLQLSRSGNRFKVEHYAVEPLPLNAVAERGIVEVEQVGEAIRRAVSRSGTKAKFAAA   79
NTDB id 1010 ACIAD RS15195 WP 004923715.1    MLRLYRRPKKGLVGVDISSTSVKVLELSVKNNQYRVESYGLVPLLENSVVEKNILNPEAVADALTRSINLANPQAINAAI   80
NTDB id 1054 ABD1 RS15870 WP 002014066.1     MLRLYRKPNKGLMGVDISSTSVKLLELSVKNGKYWVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQITHAAI   80
NTDB id 1084 FDQ49 RS11070 WP 004711654.1    MLRLYRKPNKGLMGVDISSTSVKLLELSVKNGKYWVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQTTNAAI   80
consensus                                    ***!*********!*!!!!**!!*!**!*** ** !!*!**************!*****!**** ********** **!*

logo

NTDB id 1253 GC085 RS04835 WP 011215094.1     AVPDSAVISKVVQINEGLTDLEMEELVVIEADKYIPYPIDEINLDFEVLGHSAKSSSLLDVLIVASRAENVNTRVEAAHR  160
NTDB id 189662 BC375 RS01630 WP 038200243.1  AVAGSAVITKLIPMPVGLDEQDLEAQIEIEATNYIPYPIEEVSLDFEVLGPVPNNTEMVQVLLAASRSENVELRQSALEL  159
NTDB id 1010 ACIAD RS15195 WP 004923715.1    AVPTSMVVHKIIEMDADMTDDEREVQIRMDAERYIPFPLDEVSLDFEVMSEPLANPNRVSVLIAATRTENVDTRIEVLEL  160
NTDB id 1054 ABD1 RS15870 WP 002014066.1     AVPTSTVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLPDRLANPNRVNVLLVATRTENVETRVEVLEL  160
NTDB id 1084 FDQ49 RS11070 WP 004711654.1    AVPTSTVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLPDRLLNPNRVNVLLVATRTENVETRVEVLEL  160
consensus                                    !!**! !**!************!******!**!!!*!**!**!!!!!* * * *****!!**!*!*!!!**!******

logo

NTDB id 1253 GC085 RS04835 WP 011215094.1     AGLEPKVVDVESYAVERSVQQIAQELPASGQDKIVAIVDIGANYTHLFVLHGMRLIFSREEKFGGMQLVEAIAEHYHMNL  240
NTDB id 189662 BC375 RS01630 WP 038200243.1  GGLTAKVIDVEALAVENAFSLIAQELSV.GSNALVALIDIGATMSTLNVLHSGRSLYTREQLFGGKQLTDEVMHRYGMTY  238
NTDB id 1010 ACIAD RS15195 WP 004923715.1    AGLTPKVADVESYAMERAFSVFADTLPM.GVNT.VGILDIGHTMTTLSVMQKGKIIYTREQVFGGKQLTQEVQKRYGMSY  238
NTDB id 1054 ABD1 RS15870 WP 002014066.1     ADLNPKLADVESYAVERAFSVFADSLPM.GANT.IGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL  238
NTDB id 1084 FDQ49 RS11070 WP 004711654.1    ADLNPKLADVESYAVERAFSVFADSLPM.GANT.IGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL  238
consensus                                    **! *!**!!!**!*!******!**!** ! ** ****!!!*****!*!** ******!!**!!!*!!* *** *!****

logo

NTDB id 1253 GC085 RS04835 WP 011215094.1     EQAIALKNQCKLPEDYESAVLEPFKDMILLQIKRTLQFFYSTSQHGFVDHILLAGGMARQPGLAALIQEQLGVTTTVANP  320
NTDB id 189662 BC375 RS01630 WP 038200243.1  EEAGQAKRQGGLPQSYEVEVLGSFKDSVIQQISRLLQFFYAGSEYNRVDCIVLAGGCAVIAGLPAMVEERLGVVTVVANP  318
NTDB id 1010 ACIAD RS15195 WP 004923715.1    EEAGRAKKDGSLPEDFTQEVFEPYLEALVQQAARSLQFFFSSSQYNEIDHILLAGGNANILGLSRLLQQKLGYRVTIANP  318
NTDB id 1054 ABD1 RS15870 WP 002014066.1     EEASRAKKDRSLPDDYEIEVLDPFLDAVVQQAARSLQFFFSSSQFNEIDHILLAGGNANIPGLAKLLQQKLGYRVTIANP  318
NTDB id 1084 FDQ49 RS11070 WP 004711654.1    EEASRAKKDRTLPDDYEIEVLDPFLDAVVQQAARSLQFFFSSSQFNEIDHILLAGGNANIPGLAKLLQQKLGYRVTIANP  318
consensus                                    !*! **!****!!******!**********!**!*!!!!***!*****!*!*!!!!!*!***!!*******!!*****!!!

logo

NTDB id 1253 GC085 RS04835 WP 011215094.1     LSHMSFGKKVNLDVINSDAPTLMVACGLALRHVE.   354
NTDB id 189662 BC375 RS01630 WP 038200243.1  LAQMTLGAKVQAHTLAQDAPALMIATGLALRSFD.   352
NTDB id 1010 ACIAD RS15195 WP 004923715.1    FLQMEFSPQVDIKKVENDAASLMVACGLALRSFDE   353
NTDB id 1054 ABD1 RS15870 WP 002014066.1     FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD.   352
NTDB id 1084 FDQ49 RS11070 WP 004711654.1    FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD.   352
consensus                                    ***! ****!** ****!! *!!*!*!!!!!***
```

X non conserved
X similar
X $\geq$ 50% conserved