```
logo

NTDB id 1253 GC085 RS04835 WP 011215094.1      MLKLLKPKHRSILGIDISSSAVKILEISGSGEDICVEGYGREEIPASALEGNMIKDVDVVANCIKKLVERLKFTSKNVAL   80
NTDB id 976074 AADH33 RS01660 WP 348549350.1  .MRLFTSKSRHLIGVDICATSVKLVDIQHQQGMFHLKSYGIERLPEGVVVDKLIVDTEAVGDTIASLARRCQVANAHAAT   79
NTDB id 1010 ACIAD RS15195 WP 004923715.1     MLRLYRRPKKGLVGVDISSTSVKVLELSVKNNQYRVESYGLVPLLENSVVEKNILNPEAVADALTRSINLANPQAINAAI   80
NTDB id 1054 ABD1 RS15870 WP 002014066.1      MLRLYRKPNKGLMGVDISSTSVKLLELSVKNGKYWVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQTTHAAI   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 976074 AADH33 RS01660 WP 348549350.1  AVSGSAVITKIIDMDMALSDVEREAQIRLDADQYVPYPLEDVNLDFEVLGPSLVSDDMVQVLLAASRSENVDQRVDALTF  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 976074 AADH33 RS01660 WP 348549350.1  GGMQTKVMDIESHAIERAFGLMVDNLPGL..PELVALVDIGHNQTTLYVAKNGEFIYSREQLFGGAQLTEAIQNRYGLSS  237
NTDB id 1010 ACIAD RS15195 WP 004923715.1     AGLTPKVADVESYAMERAFSVFADTLPMG..VNTVGILDIGHTMTTLSVMQKGKIIYTREQVFGGKQLTQEVQKRYGMSY  238
NTDB id 1054 ABD1 RS15870 WP 002014066.1      ADLNPKLADVESYAVERAFSVFADSLPMG..ANTIGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL  238
NTDB id 1084 FDQ49 RS11070 WP 004711654.1     ADLNPKLADVESYAVERAFSVFADSLPMG..ANTIGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL  238
consensus                                     *****!**!*!!*!*!!********!!**   ******!!!***!*!*!******!**!!**!!!*!!* *** *!****

logo

NTDB id 1253 GC085 RS04835 WP 011215094.1      EQAIALKNQGKLPEDYESAVLEPFKDMILLQIKRTLQFFYSTSQHGFVDHILLAGGMARQPGLAALIQEQLGVTTTVANP  320
NTDB id 976074 AADH33 RS01660 WP 348549350.1  EEAALSKRERTLPDDYYPEILTPFIENTIQQITRSLQFYFSSSQYSNIDHVVLAGGSSSIPGLAGMAQQKLGVTVSIANP  317
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 976074 AADH33 RS01660 WP 348549350.1  FTNMTIAPHIDNEQLAIDAPSLMAACGLALRSFD.   351
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