

```
NTDB id 1253 GC085 RS04835 WP 011215094.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 110295 ACAK32 RS17870 WP 002014066.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
```

MLRLYRkPNKGLMGVDISSTSVKLELSVKNKYWVESYALMPLPENSVEKNILNPEAVAEALERAMNLANPQTTNAAI

K L K P K H R S T Y I D I S S T S V K L E L S V K N K Y W V E S Y A L M P L P E N S V E K N I L N P E A V A E A L E R A M N L A N P Q T T N A A I

MLKLLKPKHRSILGIDISSAVKILEISGSGEDICVGGYGREEIPASALEGNMTKDVVVANCIKKLVERLKFTSKNVAL 80

MLRLYRRPKKGLVGVDISSTSVKVLELSVKNNQYRVESYGLVPLENSVVEKNILNPEAVADALTRSINLANPQAINAII 80

MLRLYRKPNKGLMGVDISSTSVKLELSVKNKYWVESYALMPLPENSVEKNILNPEAVAEALERAMNLANPQTTHAAI 80

MLRLYRKPNKGLMGVDISSTSVKLELSVKNKYWVESYALMPLPENSVEKNILNPEAVAEALERAMNLANPQTTHAAI 80

MLRLYRKPNKGLMGVDISSTSVKLELSVKNKYWVESYALMPLPENSVEKNILNPEAVAEALERAMNLANPQTTHAAI 80

*****!!**!*!***!!*!*****!!*!*****!!*****!!*****!!*****!!*****!!*

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NTDB id 110295 ACAK32 RS17870 WP 002014066.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus

```

[illegible]

```
NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 110295 ACAK32 RS17870 WP 002014066.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
```

ADLNPKLADVESYAVERAFAFSVFADSLPMGA NTIGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL
AGLEPKVVDDVESYAVERSVQQIAQELPASGGDKIVAIVDIGANYTHFVLHGMRLIFSREEKFGGMQLVEATAEHYHMNL 240
AGLTPKVADVESYAMERAFSVFADITLPMGV..NTVGILDTIGHTMTTLSVMQKGKIIYTREQVFGGKQLTQEVQKRYGMSY 238
ADLNPKLADVESYAVERAFAFSVFADSLPMGA..NTIGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL 238
ADLNPKLADVESYAVERAFAFSVFADSLPMGA..NTIGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL 238
ADLNPKLADVESYAVERAFAFSVFADSLPMGA..NTIGILDIGHTMTTLSVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL 238
!***!**

```
NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
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consensus
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[illegible]

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NTDB id 1253 GC085 RS04835 WP 011215094.1
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NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
```

LSHMSFGKKVNI DVINS DAPTLMVACGLALRHVE. 354
 FLQMGFSPQVDIKVENDASLMVACGLALRSFDE 353
 FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD. 352
 FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD. 352
 FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD. 352

*** ! * ! * * * ! * * * * * * ! * ! * * ! ! ! ! ! ! * * *

 non conserved
 similar
 $\geq 50\%$ conserved