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|-----------------------------------------------|---------------------------------------------------------------------------------------|----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1     | MLRLYRKPNKGLMGYDSSSTSVKLELSVKNQYVVESYALMPLPENSWVEKNLNPFAVAALRAMNLANPQTTHAAI           | 80 |
| NTDB id 1088829 ACI766 RS27355 WP 003110888.1 | MLKLLPKKHRSILGIDISSSAVKILEISGSGEDICVEGYGREETIPASALEGNMIDVDVIVANCITKKLVERLKFTSKNVAL    | 80 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1     | MLGLIKKKANTLLGIDISSTSVKLELSRSGGRYKVEAYAVEPLPPNAVVEKNIVELEGVQALSRVLVKAKTNLKSADV        | 80 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1      | MLRLYRPPKGLGVDDISSTSVKLELSVKNQYRVESYGLVPLLENSVVEKNILNPEAVADALTRSLNLANPQAINAAI         | 80 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1     | MLRLYRKPKNKGLMGVDISSTSVKLELSVKNQYVVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQTTHAAI       | 80 |
| consensus                                     | !!*!***** ****!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!! |    |

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| NTDB id 1253 GC085 RS04835 WP 011215094.1     | AVPTSAVIHKTIEMDADMSDDEREVQIRYDAEQYIPFPLDEVSLDFEVLDPDSANPNRVNVLVATRTENETRVLEVLEL      | 160 |
| NTDB id 1088829 ACI766 RS27355 WP 003110888.1 | AVPDSAVISKVQINEGLTIDLEMEELVIEADKYIPYPIDEINLDFEVLGHSAKSSSLDVLIVASRAENVNTRVEAAHR       | 160 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1     | AVAGSAVITKTIEMEAGLSEDELENQKIEADQYIPYPLEVAIDFEVQGLSARNPERVDVLLAACRKENVEVREAALAL       | 160 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1      | AVPTSMVVKHTIEMDADMTDDEREVQIRMDAERYIPFPLDEVSLDFEVMSEPLANPNRVSVLTAARTENVDTRIEVLEL      | 160 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1     | AVPTSTVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLDPDRLLNPNRVNVLVATRTENVETRVEVLEL     | 160 |
| consensus                                     | !!*!! !!*!*****!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!! |     |

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| NTDB id 1253 GC085 RS04835 WP 011215094.1     | AGLTPKVADESVAVERAFSVFADSLPMGA..NTVYGILDIHTMTTSLVMQNGKIIYTREQVFGGKQLTLEIQRYGLSL     | 240 |
| NTDB id 1088829 ACI766 RS27355 WP 003110888.1 | AGLEPKVVDVESYAVERSVQIIAQELPASQDKIVAIVDIGANYTHLFLVLHGMRLIFSREEKFGGMQLVEAIAEHYHNNL   | 240 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1     | AGLTAQVVDVEAYALERSYATLLSSQLGADTDQLTVAVVDIGATMTTSLVLHNGRTIYTREQVFGGKQLTLEIQRRYGLSV  | 238 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1      | AGLTPKVADESVAVERAFSVFADSLPMGV..NTVYGILDIGHTMTTSLVMQNGKIIYTREQVFGGKQLTQEVQKRYGMSY   | 238 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1     | ADLNPKLADVESYAVERAFAFSVFADSLPMGA..NTIGILDIGHTMTTSLVMQNGKIIYTREQVFGGKQLTLEIQSRYGLSL | 238 |
| consensus                                     | !!*! *!*****!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!  |     |

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|-----------------------------------------------|---------------------------------------------------------------------------------|-----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1     | EEASRAKKDGLPDDYEVLEPFLDAVQQAARSLQFFFSQQFNEIDHILLAGGNANIPGLARLLQKKLGYRVTIANP     | 320 |
| NTDB id 1088829 ACI766 RS27355 WP 003110888.1 | EEAGLAKKQGLPDDYDSEVLRPFKDAVVQVVSRLQFFFAAGQFNDDYIVLAGGTASTQDLDRLIQKKIGTPTLVANP   | 320 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1     | EEAGRAKKDGLPDDYEVLEPFLDAVQQAARSLQFFFSQQFNEIDHILLAGGNANIPGLARLLQKKLGYRVTIANP     | 318 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1      | EEASRAKKDRSLPDDYEVLEPFLDAVQQAARSLQFFFSQQFNEIDHILLAGGNANIPGLAKLLQKKLGYRVTIANP    | 318 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1     | EEASRAKKDRSLPDDYEVLEPFLDAVQQAARSLQFFFSQQFNEIDHILLAGGNANIPGLAKLLQKKLGYRVTIANP    | 318 |
| consensus                                     | !!*! *****!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!! |     |

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|-----------------------------------------------|-------------------------------------------|-----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1     | FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD        | 354 |
| NTDB id 1088829 ACI766 RS27355 WP 003110888.1 | FADMALNGKVNAGALASDAPALMIACGLALRSFD        | 354 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1     | FLQMGFSPQVDIKKVENDASSLMVACGLALRSFDE       | 353 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1      | FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD        | 352 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1     | FLQMGFSPQVDVQKIENDASSLMVACGLALRSFD        | 352 |
| consensus                                     | ***!*****!*** *****! *!*****!!!!!!*!!!!!! |     |

 non conserved  
 similar  
  $\geq 50\%$  conserved