

logo

|                                           |                                                                                        |    |
|-------------------------------------------|----------------------------------------------------------------------------------------|----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1 | MLRLYRKPNKGLVGVDSSTSVKLELSYKNNKYVESYALMPLPENSWEKVLNPEAVAEALRAMNLANPQTINAAIAVPTS        | 85 |
| NTDB id 87508 STNY RS17390 WP 014038321.1 | MLKLLPKHRSITIGDISSSAVKILEISGSGEDICVEGYCREETIPASALEGNMTKVDVVANCIKKLVERLKFTSKNVAIAVPDS   | 84 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1 | .MGLIPKSPSPLVGVDISSTAVKLLQLSRSGNRFRVEHYAVEPLPPNAVVEKNIIVEEAVGEAIRRAMNRS GSKAKLAAA VAGS | 85 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1  | MLRLYRKPNKGLVGVDSSTSVKLELSVKNNQYRVESYGLVPLLENSVVEKNILNPEAVADALTR SINLANPQAINAAIAVPTS   | 85 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1 | MLRLYRKPNKGLMGVDSSTSVKLELSVKNGKYWVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQTTHAAIAVPTS    | 85 |
| consensus                                 | ***!*****!*!!!!*!*!*!*!*!*!!!!*!*****!*****!*****!*****!*****!*****!*****!*****!       |    |

logo

|                                           |                                                                                               |     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|-----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1 | AVISKVVGINEGLDLEMEELVLEADKYIPYIDEINLDFEVLGHSAKSSSLDVLIVASRAENVNTRVEAAHRAGLEPKVVDV             | 170 |
| NTDB id 87508 STNY RS17390 WP 014038321.1 | AVITKVIPMPADLDENDMEAQIELEAVNIYIPPIEVENLDFEIVGISPNNPMEVQVLLAASRSENVELRQSALELGGLQAKVMDV         | 169 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1 | MVYHKTIEDMADMTDDEREVQIRMDAERYIPFPLDEVSLDFEVMSEPLANPNRVSVLTAATRENVDTRIEVELEAGLTPKVADV          | 170 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1  | TVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLPDRLANPNRVNVLVATRTENVETRVEVELEADLNPKLADV          | 170 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1 | TVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLPDRLANPNRVNVLVATRTENVETRVEVELEADLNPKLADV          | 170 |
| consensus                                 | !*!*!*****!*****!*!*!!!!*!*!*!*!*!!!!!!*!*!*!*****!*****!*****!*****!*****!*****!*****!*****! |     |

logo

|                                           |                                                                                                 |     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|-----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1 | ESYAVERAESVFADSLPMGANTYVGLDIGHMTTISVMQNGKIIYTREQVFGGKQLTLEIQSRYLGLSLEEASRAKKDGLSPED             | 255 |
| NTDB id 87508 STNY RS17390 WP 014038321.1 | ESYAVERSVQIQAE LPA SCQKIVAIVDIGANYTHLFVLHGMRLIFSREEKFGGMQLVEATAEHYHNNLEQAIALKNQKGLPED           | 253 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1 | EAFAVENAVATVASELPV.SIDGVVALVDIGATMTTLNVLRGGSLSYSREQVFGGKQLTDEIMRRYGLSYEEAGLAKRQGGLPES           | 253 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1  | ESYAMERAFSVFADSLPM.GVNT.VGILDIGHTMTTSLVMQKKGKIIYTREQVFGGKQLTQEVQKRYGMSYEEAGRAKKDGLSPED          | 253 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1 | ESYAVERAESVFADSLPM.GANT.IGILDIGHTMTTSLVMQNGKIIYTREQVFGGKQLTLEIQSRYLGLSLEEASRAKKDRSLPDD          | 253 |
| consensus                                 | !*!*!*!*****!*****!*!*!!!!*!*!*!*!*!!!!!!*!*!*!*****!*****!*****!*****!*****!*****!*****!*****! |     |

logo

|                                           |                                                                                           |     |
|-------------------------------------------|-------------------------------------------------------------------------------------------|-----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1 | YESAVLEPPFKDMTLLQIKRTLQFFYSISQHGFDHILLAGGMARQPGLAALIQEQLGVTTVANPLSHMSEFGKKVNTDVTNSDAP     | 340 |
| NTDB id 87508 STNY RS17390 WP 014038321.1 | YEMEVLEPPFKEATVQQISRLQFFYAGSEFNRDHIVLAGGCAVGGLPPEMVEEQLGVPPTVANPLAQMTLGPKVNAHALAQDAP      | 338 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1 | ETQEVFEFYLEAVQQAARSLQFFFSSSQYNEIDHILLAGGNANILGLSRLQLQKLGyrvtianpflqmeFSPQVDIKKVENDAA      | 338 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1  | YETEVLDPFLDAVQQAARSLQFFFSSSQFNEIDHILLAGGNANIPGLAKLLQKLGyrvtianpflqmgFSPQVDVQKIENDAS       | 338 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1 | YETEVLDPFLDAVQQAARSLQFFFSSSQFNEIDHILLAGGNANIPGLAKLLQKLGyrvtianpflqmgFSPQVDVQKIENDAS       | 338 |
| consensus                                 | ***!*!*!*****!*****!*!*!!!!!!*!*!*!*****!*****!*****!*****!*****!*****!*****!*****!*****! |     |

logo

|                                           |                    |     |
|-------------------------------------------|--------------------|-----|
| NTDB id 1253 GC085 RS04835 WP 011215094.1 | SLMVACGLALRSFD     | 354 |
| NTDB id 87508 STNY RS17390 WP 014038321.1 | ALMIAATGLALRSFD    | 352 |
| NTDB id 1010 ACIAD RS15195 WP 004923715.1 | SLMVACGLALRSFDE    | 353 |
| NTDB id 1054 ABD1 RS15870 WP 002014066.1  | SLMVACGLALRSFD     | 352 |
| NTDB id 1084 FDQ49 RS11070 WP 004711654.1 | SLMVACGLALRSFD     | 352 |
| consensus                                 | *!!!!*!*!!!!!!**** |     |

 non conserved  
 similar  
  $\geq 50\%$  conserved