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|                                             |                            |    |
|---------------------------------------------|----------------------------|----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | MEINQYLDGMLTHKASDLYITVGA   | 69 |
| NTDB id 190150 A6L27 RS11130 WP 002221204.1 | MFTDENMTAKEELFAWL          | 80 |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | MEFEKLLRLMVEKGS            | 70 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | MDFNLLNLMAKHKAS            | 70 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | MTSGIDITDILRLA             | 74 |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | MQITDLLAFGAKNKAS           | 70 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | MDIAELLAFSVKKNSS           | 70 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | MDIAELLAFSVKKNSS           | 70 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | MDITELLAFSAKQAS            | 70 |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | MDITELLAFSAKQAS            | 70 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | MDITELLAFSVQNRAS           | 70 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | MDITELLAFSVKNGAS           | 70 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | MDITELLAFSVKNGAS           | 70 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | MDITELLAFSVKNGAS           | 70 |
| consensus                                   | *****!***** *!!*****!***** |    |

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|---------------------------------------------|---------------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | FAVVRD..S                       | 147 |
| NTDB id 190150 A6L27 RS11130 WP 002221204.1 | FAISLPD.TS                      | 159 |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | FAISARG.IG                      | 149 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | FAILNREKNE                      | 150 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | FSFALGD.KA                      | 153 |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | FSFELPN.VA                      | 149 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | FSFEIAN.LA                      | 149 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | FSFEIAN.LA                      | 149 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | FSFEVPG.VA                      | 149 |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | FSFEVPG.VA                      | 149 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | FSFEVPN.LA                      | 149 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | FSFEVPN.VA                      | 149 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | FSFEVPN.VA                      | 149 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | FSFEVPN.VA                      | 149 |
| consensus                                   | !***** *!!!!!!***** *****!***** |     |

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|---------------------------------------------|----------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | HRTGHILT                   | 227 |
| NTDB id 190150 A6L27 RS11130 WP 002221204.1 | NSFGHIIT                   | 239 |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | NSSGHIIS                   | 229 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | HSKGHIIT                   | 230 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | TKKLHILT                   | 233 |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | TQPAHILT                   | 229 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | SRYEHIIT                   | 229 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | SRYEHIIT                   | 229 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | TKYHHILT                   | 229 |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | TKYHHILT                   | 229 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | HRYDHILT                   | 229 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | NRYDHILT                   | 229 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | NRYDHILT                   | 229 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | NRYDHILT                   | 229 |
| consensus                                   | * *!!!!!!***** *****!***** |     |



 non conserved  
 similar  
  $\geq 50\%$  conserved