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|                                               |                           |    |
|-----------------------------------------------|---------------------------|----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1   | MEINQYLDGMLTHKASDLVITVGA  | 69 |
| NTDB id 1099485 ACM67D RS01805 WP 003704392.1 | MFTDENMTAKEELFAWLHRHMKNK  | 80 |
| NTDB id 1203 PSJM300 01605 AFN76401.1         | MEFEKLLRLMVEKGGSDLFITAGV  | 70 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1     | MDFNLLNLMAKHKASDLFITAGV   | 70 |
| NTDB id 1307 DR RS10055 WP 01088596.1         | MTSGIDITDILRLAADKASDII    | 74 |
| NTDB id 1086 NMV RS00245 WP 002218487.1       | MQITDLLAFGAKNKASDLHLSSG   | 70 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1    | MDIAELLAFSVKNKSSDLHISAG   | 70 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1     | MDIAELLAFSVKNKSSDLHISAG   | 70 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1     | MDITELLAFSAKKGASDLHLSAG   | 70 |
| NTDB id 1202 PSJM300 01600 AFN76400.1         | MDITELLAFSAKKGASDLHLSAG   | 70 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1     | MDITELLAFSVQNRASDLHLSAG   | 70 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1     | MDITELLAFSVKNKASDLHLSAG   | 70 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1      | MDITELLAFSVKNKASDLHLSAG   | 70 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1     | MDITELLAFSVKNKASDLHLSAG   | 70 |
| consensus                                     | *****!***** *!*****!***** | !  |

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|-----------------------------------------------|-------------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1   | FAVVRD..SCRFRVSAFFQRELP       | 147 |
| NTDB id 1099485 ACM67D RS01805 WP 003704392.1 | FAISLPD.TSRFRVNAMIQRGAT       | 159 |
| NTDB id 1203 PSJM300 01605 AFN76401.1         | FAISARG.IGRFRVSAFYQRNL        | 149 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1     | FAILNREKNRFRVSAFYQRN          | 150 |
| NTDB id 1307 DR RS10055 WP 01088596.1         | FSFALGD.KARFRVNAFMQRGN        | 153 |
| NTDB id 1086 NMV RS00245 WP 002218487.1       | FSFELPN.VARFRVNAFNIGRPA       | 149 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1    | FSFEIAN.LARFRVNAFNQSRGA       | 149 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1     | FSFEIAN.LARFRVNAFNQSRGA       | 149 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1     | FSFEVPG.VARFRVNAFNQNRGA       | 149 |
| NTDB id 1202 PSJM300 01600 AFN76400.1         | FSFEVPG.VARFRVNAFNQNRGA       | 149 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1     | FSFEVPN.LARFRVNAFNQNRGA       | 149 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1     | FSFEVPN.VARFRVNAFNQNRGA       | 149 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1      | FSFEVPN.VARFRVNAFNQNRGA       | 149 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1     | FSFEVPN.VARFRVNAFNQNRGA       | 149 |
| consensus                                     | !***** *!!!!***** *****!***** | !   |

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|-----------------------------------------------|--------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1   | HRTGHILTVEDPIEFVHEHKRC   | 227 |
| NTDB id 1099485 ACM67D RS01805 WP 003704392.1 | NSFGHIITIEDPIEFVHEHKNC   | 239 |
| NTDB id 1203 PSJM300 01605 AFN76401.1         | NSSGHIISIEDPIEFVHEHNC    | 229 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1     | HSKGHIITIEDPIEFVHEHNC    | 230 |
| NTDB id 1307 DR RS10055 WP 01088596.1         | TKYHHILTIEDPIEFVHEHNC    | 233 |
| NTDB id 1086 NMV RS00245 WP 002218487.1       | TQPAHILTIEDPIEFVHEHNC    | 229 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1    | SRYEHLTVEDPIEFVHEHNC     | 229 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1     | SRYEHLTVEDPIEFVHEHNC     | 229 |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1     | TKYHHILTIEDPIEFVHEHNC    | 229 |
| NTDB id 1202 PSJM300 01600 AFN76400.1         | TKYHHILTIEDPIEFVHEHNC    | 229 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1     | HRDYHILTVEDPIEFVHEHNC    | 229 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1     | NRDYHILTVEDPIEFVHEHNC    | 229 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1      | NRDYHILTVEDPIEFVHEHNC    | 229 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1     | NRDYHILTVEDPIEFVHEHNC    | 229 |
| consensus                                     | * *!!!!***** *****!***** | !   |



 non conserved  
 similar  
  $\geq 50\%$  conserved