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NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 20753 MCA RS07575 WP 010960810.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1194 PA0395 NP 249086.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

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|                                             |                    |                  |                       |                     |                                   |                                      |             |
|---------------------------------------------|--------------------|------------------|-----------------------|---------------------|-----------------------------------|--------------------------------------|-------------|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | LTVEDPIEFVHEH      | KRCIVTQREVGLDTES | YEVALKNSLRQAPDMILIGE  | IRSRETMEYAMTFAETGHL | CMATLHANNANQ                      | 233                                  |             |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | ITIEDPIEFITHEHAGCI | ITQREVGIDTDSFEI  | ALKNTLRQAPDVILIGE     | IRSREVM DYALAF      | AE TGHLVFATLHANNANQ               | 236                                  |             |
| NTDB id 20753 MCA RS07575 WP 010960810.1    | ITIEDPLEFVHPHAGCIV | TQREVGIDTESYE    | VALKNTLRQAPDVILIGE    | IRTRETMQA           | ITFAETGHLCLSTLHANNANQ             | 235                                  |             |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | ISIEDPIEFITHQHNCI  | IVTQREVGIDTDS    | SFEVALKNTLRQAPDVILIGE | VRTRETMDH           | AVAF AE TGHLCLATLHANNANQ          | 235                                  |             |
| NTDB id 1307 DR RS10055 WP 010888596.1      | LTIEDPIEFMHPNKAS   | IINQREVGS        | DTLSFDDALRAALRQAPDV   | ILVGM               | RDYETIKA AVTAAETGHLVMGTLHTNSAPE   | 239                                  |             |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | LTIEDPIEFVHSNNK    | CLINQREVHRDTH    | SFKNALRSALREDPD       | VILVGL              | LRDQETISLALTA AE TGHLVFGTLHTSSAAK | 235                                  |             |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | LTIEDPIEFVHSNNK    | CLINQREVHRDTH    | SFKNALRSALREDPD       | VILVGL              | LRDQETISLALTA AE TGHLVFGTLHTSSAAK | 235                                  |             |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | LTVEDPIEFVHQS      | KKCLVNQREVHK     | DTLSFNAA              | ALRSALREDPD         | II                                | LVGEMRDLETIRLAMTAAETGHLVFGTLHTNSATK  | 235         |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | LTVEDPIEFVHQS      | KKCLVNQREVHK     | DTLSFNAA              | ALRSALREDPD         | II                                | LVGEMRDLETIRLAMTAAETGHLVFGTLHTNSATK  | 235         |
| NTDB id 1194 PA0395 NP 249086.1             | LTIEDPIEFVHES      | KKCLVNQREVHR     | DTLGFSE               | ALRSALREDPD         | II                                | LVGEMRDLETIRLALTA AE TGHLVFGTLHTTSAK | 235         |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | LTIEDPIEFVHES      | KKCLVNQREVHR     | DTLGFSE               | ALRSALREDPD         | II                                | LVGEMRDLETIRLALTA AE TGHLVFGTLHTTSAK | 235         |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | LTVEDPIEFVHEP      | KKCLINQREVHR     | DTLGFNE               | ALRSALREDPD         | II                                | LVGEMRDLETIRLALTA AE TGHLVFGTLHTTSAK | 235         |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | LTVEDPIEFVHQS      | KKCLINQREVHR     | DTHGFNE               | ALRSALREDPD         | II                                | LVGEMRDLETIRLALTA AE TGHLVFGTLHTTSAK | 235         |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | LTVEDPIEFVHQS      | KKCLINQREVHR     | DTHGFNE               | ALRSALREDPD         | II                                | LVGEMRDLETIRLALTA AE TGHLVFGTLHTTSAK | 235         |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | LTVEDPIEFVHQS      | KKCLINQREVHR     | DTHGFNE               | ALRSALREDPD         | II                                | LVGEMRDLETIRLALTA AE TGHLVFGTLHTTSAK | 235         |
| consensus                                   | ***!!!!!!          | *****!!!!*!!     | * * !!!!!!!           | *****!!!!!!         | *****!!!!!!                       | *****!!!!!!                          | *****!!!!!! |

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|---------------------------------------------|--------------------------------------------------------------------------------------|-----|
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | ALERILHLVPKEQREQFLDLSLNLKGVIAAQQLLLRDKNGKGRHGVFEVLINSPRIADLIRRGELHELKATMARSQEVGMQ    | 313 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | TLERIIHFFDADRHHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDIYRQGEIYKIKELMARSQELGMQ    | 316 |
| NTDB id 20753 MCA RS07575 WP 010960810.1    | ALDRILHFFPEDMRHPQVFMDSLNLRLATIAAQLVRRADGKGGRYPAVEILINTPLVSDLIRQGEVHKLKDVMMKQSRREQGMQ | 315 |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | ALDRIINFFPADRHNQVWMDLSLNLKAIVAAQQLVPTPDGKGRRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ   | 315 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | SIDRIVDVFPPEEQEQEIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMMQTGAREGMV   | 319 |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | TIDRIIDVFPGSDKDKMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ    | 314 |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | TIDRIIDVFPGSDKDKMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ    | 314 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | TINRIIDVFPAAEKSMMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGMQ    | 314 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | TINRIIDVFPAAEKSMMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGMQ    | 314 |
| NTDB id 1194 PA0395 NP 249086.1             | TIDRVVDVFPAAEKAAMVRSMLSESLQSVISQTLTKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGSLSGMQ   | 314 |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | TIDRVVDVFPAAEKSMMVRSMLSESLQAVISQTLTKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGSLSGMQ   | 314 |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | TIDRIIDVFPAAEKDMVRTMLSESLQAVISQTLTKK.EGGGRVAAHEIMIGIPAIRNLIREDKVAQMYSIIQTGATHGMT     | 314 |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLTKK.NGGGRVAAHEIMIGIPAIRNLIREDKVAQMYSIIQTGANHGMT     | 314 |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLTKK.NGGGRVAAHEIMIGIPAIRNLIREDKVAQMYSIIQTGANHGMT     | 314 |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLTKK.NGGGRVAAHEIMIGIPAIRNLIREDKVAQMYSIIQTGANHGMT     | 314 |
| consensus                                   | ***!***** *** *!***! *** ! !*** ***!*** !**********!?!* ***** ***** !!*              |     |

