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|---|---|----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR  | 74 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | .MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR  | 73 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | .MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR  | 73 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | .MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR  | 73 |
| NTDB id 159 SP RS09750 WP 001085462.1       | .MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR  | 73 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | .MAKK....PKKLDEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR  | 73 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | .MAKK....PKKLDEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR  | 73 |
| NTDB id 453 Spy49 1753c ACI62003.1          | .MAKK....LKKNEEITKKFGEERDKALDDALKNIEKD FGKGVAVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | .MAKR....IKKTEEITKKFGEERDKALDDALKNIEKD FGKGVAVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 115 BSU 16940 NP 389576.2           | .....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPKGR                 | 58 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | .....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR                | 60 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | .....MSKDATKEISAPTD AKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR   | 72 |
| NTDB id 1245 Cj1673c YP 002345041.1         | .....MDNKRKSLDAALKS LDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR                | 59 |
| NTDB id 25958 HPAG1 RS00795 WP 000952097.1  | .....MAIDEDKQKAIISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR            | 61 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | .....MAIDEDKQKAIISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR            | 61 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | .....MAIDEDKQKAIISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR            | 61 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | .....MAKT..ETTSPNDDKKKALAAVLEK LDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR    | 68 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | .MAENKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR   | 76 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | .....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR                | 60 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | .....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR                | 60 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | .....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR                | 60 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | .MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPKGR    | 68 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | .....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR                 | 59 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | .....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR                 | 59 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR                | 59 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | .....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR                | 59 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | .....MDENKRRALAAALGQIEKQFGKGVAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR               | 59 |
| consensus                                   | *** ** * ** *! *!***** * **!*!*!*!*!*! !! *!*                                     |    |









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