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| NTDB id 600 KW2 RS01765 WP 011675413.1 | MATKKK....TNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR | 74 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAKKP....KKLEEISKKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | .MAKKP....KKLEEISKKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | .MAKKP....KKLEEISKKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 159 SP RS09750 WP 001085462.1 | .MAKKP....KKLEEISKKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | .MAKKP....KKLDEISKKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | .MAKKP....KKLDEISKKKFGAEREKALNDALKLEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 453 Spy49 1753c ACI62003.1 | .MAKKL....KKNEEITKKKFGDERRKALDDALKNIEKD FGKGVAVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | .MAKRI....KKTEEITKKKFGDERRKALDDALKNIEKD FGKGVAVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 115 BSU 16940 NP 389576.2 |MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPKGR | 58 |
| NTDB id 625 LCA RS02525 WP 011374196.1 |MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR | 60 |
| NTDB id 1313 DR RS12030 WP 010888966.1 |MSKDATKEISAPTDAKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR | 72 |
| NTDB id 1245 Cj1673c YP 002345041.1 |MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR | 59 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 |MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR | 61 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 |MAIDEDKQKATISLAIKQIDKVF 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 | .MAENKKSSKNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR | 76 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR | 60 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR | 60 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 |MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR | 60 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | .MED.....GK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR | 68 |
| NTDB id 148773 ABT55 RS20080 WP 020883855.1 |MAIDENKQKALAAALGQIEKQFGKGSIMRLGED.RSMDVETISTGSLSLDIALGAGGLPMGR | 61 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 |MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR | 59 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 |MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR | 59 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 |MDENKQRALAAALGQIEKQFGKGVAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR | 59 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 |MDNKS KALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR | 59 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 |MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR | 59 |
| consensus | *** ** * ** *! *!***** * **!*!*!*!*!*! !! *!* | |

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| NTDB id 159 SP RS09750 WP 001085462.1 | IEE | 388 |
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