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| NTDB id 600 KW2 RS01765 WP 011675413.1 | MATK....KKTNFDDITKKYGA | ERDKALADALALIEKD | FGKGSIMRLGEA | .ANQKVS | VSSGSLALDI | ALGAGGYPKGR | 74 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLI | IEKDFGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 228 SPD RS09265 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLI | IEKDFGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 194 SPR RS08825 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLI | IEKDFGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 159 SP RS09750 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLI | IEKDFGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | .MAK....KPKKLDEISKKFGA | EREKALNDALKLI | IEKDFGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | .MAK....KPKKLDEISKKFGA | EREKALNDALKLI | IEKDFGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 453 Spy49 1753c ACI62003.1 | .MAK....KLKKNEEITKKFGD | ERRKALDDALKN | IEKDFGKGAVMRLGER | .AEQKVQVMSSGSLALDI | ALGAGGYPKGR | 73 | |
| NTDB id 408 SMU RS09530 WP 002262392.1 | .MAK....RIKKTEEITKKFGD | ERRKALDDALKN | IEKDFGKGAVMRLGER | .AEQKVQVMSSGSLALDI | ALGAGGYPKGR | 73 | |
| NTDB id 625 LCA RS02525 WP 011374196.1 |MAKD | ERQAALDAALKK | IEKNFGKGSIMRMGEK | .VDTQVSTVSSGSLALDEALGVGGYPRGR | | 60 | |
| NTDB id 273776 RL06 RS13840 WP 000368166.1 |MDN | DRQKALDVTIKN | MEKSFSGKGAVMVKLGDN | .IGRRVSTTSTGSVTLDMALGVGGYPRGR | | 59 | |
| NTDB id 115 BSU 16940 NP 389576.2 |MS | DRQAALDMALKQIEKQ | FGKGSIMKLGK | .TDTRISTVPSGSLALDTALGIGGYPRGR | | 58 | |
| NTDB id 1313 DR RS12030 WP 010888966.1 |MSKDATKEISAPTD | ERSKATETAMSQIEKA | FGKGSIMKLGAE | .SKLDVQVVSTGSLSLDLALGVGGYPRGR | | 72 | |
| NTDB id 1245 Cj1673c YP 002345041.1 |MDDN | KRKSALDAALKS | LDKTFGKGTILRLGDK | .EVEQIDSIPTGSGVGLDLALGIGGVPRGR | | 59 | |
| NTDB id 1211 C694 RS00795 WP 000963128.1 |MAIDE | DKQKATISLAIKQ | IDKVFSGKALVRLGDK | .QVEKIDSIPTGSLGLDLALGIGGVPRGR | | 61 | |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 |MAIDE | DKQKATISLAIKQ | IDKVFSGKALVRLGDK | .QVEKIDSIPTGSLGLDLALGIGGVPRGR | | 61 | |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 |MAKT..ETTSPND | DKKALAAVLEKLDKT | YKGTVMKLGDTVDHNI | .EVIPTSGSLGLDLALGVGGYPRGR | | 68 | |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | .MAENKSSKNNTV..VKQVEPE | QKQALEAALAIKQ | IEKQFGKGSIMKLGQT | .EQLDIESVSTGSLGLDLALGIGGLPMGR | | 76 | |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 |MSD | DKSKALAAALAIKQ | IEKQFGKGAIMKMDGSQ | .EENLEVIPTGSLGLDLALGVGGLPRGR | | 60 | |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 |MSD | DKSKALAAALAIKQ | IEKQFGKGAIMKMDGSQ | .EENLEVIPTGSLGLDLALGVGGLPRGR | | 60 | |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 |MSD | DKSKALAAALAIKQ | IEKQFGKGAIMKMDGSQ | .EENLEVIPTGSLGLDLALGVGGLPRGR | | 60 | |
| NTDB id 1427 RS RS02760 WP 011000510.1 | .MEDG.....K..KAASMSA | EKQKALAAALAIKQ | IEKQFGKGSIMKMGDA | .EVEPVQVVSTGSLGLDV | ALGVGGLPRGR | 68 | |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 |MDEN | KQKALAAALGQIEKQ | FGKGSIMRLGDN | .RAMDVETISTGSLSLDI | ALGAGGLPMGR | 59 | |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 |MDEN | KQKALAAALGQIEKQ | FGKGSIMRLGDN | .RAMDVETISTGSLSLDI | ALGAGGLPMGR | 59 | |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 |MDDN | KSKALQAALSQIEKQ | FGKNTVMRLGDN | .TVQAVEAVSTGSLTLDI | ALGIGGLPKGR | 59 | |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 |MDEN | KSKALQAALSQIEKQ | FGKNTVMRLGDN | .TVQAVEAVSTGSLTLDI | ALGIGGLPKGR | 59 | |
| NTDB id 1205 PSJM300 05545 AFN77183.1 |MDEN | KKRALAAALGQIEKQ | FGKGAVMRMGDH | .DRQAIPSIPTGSLGLDI | ALGIGGLPKGR | 59 | |
| consensus | | ** ** | ** | ***! | *!!***** | * ****!!*!!*!!*!!*!!*!!*!!*!! | |

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consensus

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