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|---|--|-------------------------|--------------------|--------------------|---------------------|-------------|----|
| NTDB id 600 KW2 RS01765 WP 011675413.1 | MATKKK....TNFDDITKKYGAERDKALADALALIEKD | FGKGSIMRLGER.A | ANQKVS | VSSGSLALDI | ALGAGGYPKGR | 74 | |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAKKP....KKLEEISKKFGE | EREKALNDALKLIEKD | FGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 228 SPD RS09265 WP 001085462.1 | .MAKKP....KKLEEISKKFGE | EREKALNDALKLIEKD | FGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 194 SPR RS08825 WP 001085462.1 | .MAKKP....KKLEEISKKFGE | EREKALNDALKLIEKD | FGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 159 SP RS09750 WP 001085462.1 | .MAKKP....KKLEEISKKFGE | EREKALNDALKLIEKD | FGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | .MAKKP....KKLDEISKKFGE | EREKALNDALKLIEKD | FGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | .MAKKP....KKLDEISKKFGE | EREKALNDALKLIEKD | FGKGSIMRLGER | .AEQKVQVMSSGSLALDI | ALGSGGYPKGR | 73 | |
| NTDB id 453 Spy49 1753c ACI62003.1 | .MAKKL....KKNEEITKKFGE | DERRKALDDALKNIEKD | FGKGVMLRGER | .AEQKVQVMSSGSLALDI | ALGAGGYPKGR | 73 | |
| NTDB id 408 SMU RS09530 WP 002262392.1 | .MAKRI....KKTEEITKKFGE | DERRKALDDALKNIEKD | FGKGVMLRGER | .AEQKVQVMSSGSLALDI | ALGAGGYPKGR | 73 | |
| NTDB id 115 BSU 16940 NP 389576.2 |MSDRQAALDMALKQIEKQ | FGKGSIMKLG | EK.TDTR | ISTVPSGSLALDI | TALGIGGYPRGR | 58 | |
| NTDB id 625 LCA RS02525 WP 011374196.1 |MAKDERQAALDAALKKIEKN | FGKGSIMRMGEK | .VDTQVSTVSSGSLALDE | ALGVGGYPRGR | | 60 | |
| NTDB id 1313 DR RS12030 WP 010888966.1 |MSKDATKEISAPTDAKERSKAT | ETAMSI | EKAFGKGSIMKLGAE | .SKLDVQVSTGSLSLDL | ALGVGGIPRGR | 72 | |
| NTDB id 1245 Cj1673c YP 002345041.1 |MDNKRKSLDAALKS | LDKTFGKGTILRLGDK | .EVEQIDSIGTGSVGLDL | ALGIGGVPKGR | | 59 | |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 |MAIDEDKQKATISLAIKQID | KVFGKGVRLGDK | .QVEKID | ISTGSLGLDL | ALGIGGVPKGR | 61 | |
| NTDB id 1211 C694 RS00795 WP 000963128.1 |MAIDEDKQKATISLAIKQID | KVFGKGVRLGDK | .QVEKID | ISTGSLGLDL | ALGIGGVPKGR | 61 | |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 |MAKT..ETTSPPDDKK | KALAAVLEKLDKTYGKGTVMKLG | GTVDHNI | IEVIPS | SGSLGLDLALGVGGYPKGR | 68 | |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAIQIEKS | FGKGAIMKMDGSQ | QENLEVISTGSLGLDL | ALGVGGLPRGR | | 60 | |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAIQIEKS | FGKGAIMKMDGSQ | QENLEVISTGSLGLDL | ALGVGGLPRGR | | 60 | |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 |MSDDKSKALAAALAIQIEKS | FGKGAIMKMDGSQ | QENLEVISTGSLGLDL | ALGVGGLPRGR | | 60 | |
| NTDB id 1427 RS RS02760 WP 011000510.1 |MEDGK..KAASMSAEKQK | KALAAALAIQIEKQ | FGKGSIMKMGDA | .EVEPVQVSTGSLGLDV | ALGVGGLPRGR | 68 | |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 |MDNKS | KALQAALSQIEKQ | FGKNTVMRLGDN | .TVQAVEAVSTGSLTLDI | ALGIGGLPKGR | 59 | |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 |MDENKS | KALQAALSQIEKQ | FGKNTVMRLGDN | .TVQAVEAVSTGSLTLDI | ALGIGGLPKGR | 59 | |
| NTDB id 1205 PSJM300 05545 AFN77183.1 |MDENKK | RALAAALGQIEKQ | FGKGVMRMGDH | .DRQATPSISTGSLGLDI | ALGIGGLPKGR | 59 | |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | .MAENKKS | SKNNTV.VKQVEPEQKKQ | ALEAALAIQIEKQ | FGKGSIMKLGQT | .EQLDIESVSTGSLGLDL | ALGIGGLPMGR | 76 |
| NTDB id 181059 A4215 RS09930 WP 005724816.1 |MATKEKN | KALAAALGQIEKQ | FGKGSIMKLGDT | .QALDVEAVSTGSLSLDV | ALGIGGLPMGR | 61 | |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 |MDENK | QKALAAALGQIEKQ | FGKGSIMRLGDN | .RAMDVETISTGSLSLDI | ALGAGGLPMGR | 59 | |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 |MDENK | QKALAAALGQIEKQ | FGKGSIMRLGDN | .RAMDVETISTGSLSLDI | ALGAGGLPMGR | 59 | |
| consensus | *** ** | ** ***! | *!***** | * | ***!****!! | !! *!! | |

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consensus

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