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|---|--|----|
| NTDB id 600 KW2 RS01765 WP 011675413.1 | MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.A.NQKVSVVSSGSLALDIALGAGGYPKGR | 74 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | .MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | .MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 159 SP RS09750 WP 001085462.1 | .MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | .MAKK....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | .MAKK....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 453 Spy49 1753c ACI62003.1 | .MAKK....LKKNEEITKKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | .MAKR....IKKTEEITKKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.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 |MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR | 72 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 |MAIDEDKQKALSLAIKQIDKVF GKGA LVR LGDK.QVEKIDSI STGSLGLDLALGIGGVPKGR | 61 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 |MAIDEDKQKALSLAIKQIDKVF GKGA LVR LGDK.QVEKIDSI STGSLGLDLALGIGGVPKGR | 61 |
| NTDB id 63253 N149 RS08150 WP 002779414.1 |MDDNKKS L DA ALKS LDKA FGKGTILRLGDK.EVEQIDSI STG SVGLDLALGIGGIPKGR | 59 |
| NTDB id 1245 Cj1673c YP 002345041.1 |MDDNKKS L DA ALKS LDKT FGKGTILRLGDK.EVEQIDSI STG SVGLDLALGIGGVPKGR | 59 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 |MAKT..ETTSNDDKKKALAAVLEKLDKTYGKGTVMKLG DGTVDHNI E V I P S G S L G L D L A L G V G G Y P K G R | 68 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | .MAENKKS SKNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDI ES V STGSLGLDLALGIGGLPMGR | 76 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQIEKSF GKGA I M K M D G S Q Q E E N L E V I S T G S L G L D L A L G V G G L P K G R | 60 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQIEKSF GKGA I M K M D G S Q Q E E N L E V I S T G S L G L D L A L G V G G L P K G R | 60 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 |MSDDKSKALAAALAQIEKSF GKGA I M K M D G S Q Q E E N L E V I S T G S L G L D L A L G V G G L P K G R | 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 1022 ACIAD RS06390 WP 004925639.1 |MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR | 59 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 |MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR | 59 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 |MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR | 59 |
| consensus | *** ** * **! *!***** * ****!*!!!!!! !! !*!! | |

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| NTDB id 194 SPR RS08825 WP 001085462.1 | IEE | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1 | IEE | 388 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | IEE | 384 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | IEE | 384 |
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consensus

 non conserved
 similar
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