

logo

|                                             |                                                                                  |    |
|---------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | MATKKK....TNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGR | 74 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | .MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | .MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | .MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 159 SP RS09750 WP 001085462.1       | .MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | .MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | .MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR | 73 |
| NTDB id 453 Spy49 1753c ACI62003.1          | .MAKKL....KKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | .MAKRI....KKTEEITKKFGDERKKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR | 73 |
| NTDB id 115 BSU 16940 NP 389576.2           | .....MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGR                 | 58 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | .....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR               | 60 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | .....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR   | 72 |
| NTDB id 1245 Cj1673c YP 002345041.1         | .....MDDNKRKSLDAALKSLDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPRGR               | 59 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | .....MAIDEDKQKAIISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPRGR           | 61 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | .....MAIDEDKQKAIISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPRGR           | 61 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | .....MAKT..ETTSNPDDKKKALAAVLEKLDKT YGKGTVMKLGDTVDHNIEVIPSGSLGLDLALGVGGYPKGR      | 68 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | .MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR | 76 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | .....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR                | 60 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | .....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR                | 60 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | .....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR                | 60 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | .MED.....GK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR    | 68 |
| NTDB id 237213 LFZ47 RS05805 WP 080227332.1 | .....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       | .....MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR               | 59 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | .....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR                | 59 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR                | 59 |
| consensus                                   | *** **                                                                           |    |

NTDB id 600 KW2 RS01765 WP 011675413.1  
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NTDB id 228 SPD RS09265 WP 001085462.1  
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NTDB id 159 SP RS09750 WP 001085462.1  
NTDB id 499 SM12261 RS08315 WP 078228268.1  
NTDB id 527 SMSK321 RS11065 WP 001085454.1  
NTDB id 453 Spy49 1753c ACI62003.1  
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consensus

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[illegible]

logo

|                                             |     |     |     |
|---------------------------------------------|-----|-----|-----|
|                                             |     | IEE |     |
| NTDB id 600 KW2 RS01765 WP 011675413.1      | ... |     | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | IEE |     | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | IEE |     | 388 |
| 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 |
| NTDB id 453 Spy49 1753c ACI62003.1          | D.. |     | 378 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | D.. |     | 383 |
| NTDB id 115 BSU 16940 NP 389576.2           | ... |     | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | ... |     | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | ... |     | 363 |
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| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | ... |     | 347 |
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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | ... |     | 349 |
| consensus                                   |     |     |     |

- X non conserved
- X similar
- X ≥ 50% conserved