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|---|--|----|
| NTDB id 1313 DR RS12030 WP 010888966.1 | .MSKD...ATKEISAPTDAKERSKALETAMSIIEKAFGKGSIMKLGAES.KLDVQVVS | 74 |
| NTDB id 37553 HMPREF0573 RS07590 WP 004006944.1 |MAKDERAKALQTALGQIDKQFGKGSVMRLGDSAVNTNVS | 63 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGAAA.NQKVS | 76 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKV | 75 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKV | 75 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKV | 75 |
| NTDB id 159 SP RS09750 WP 001085462.1 | .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKV | 75 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | .MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKV | 75 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | .MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKV | 75 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | .MAKR...IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGERA.EQKV | 75 |
| NTDB id 453 Spy49 1753c ACI62003.1 | .MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERA.EQKV | 75 |
| NTDB id 115 BSU 16940 NP 389576.2 |MSDRQAALDMALKQIEKQFGKGSIMKLGDKT.DTRISTVPSGSLALD | 60 |
| NTDB id 625 LCA RS02525 WP 011374196.1 |MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLAL | 62 |
| NTDB id 1245 Cj1673c YP 002345041.1 |MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSTGTSVGLDL | 61 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 |MAIDEDKQKATSLAIEKQIDKVFSGKALVRLGDK.QVEKIDISTGSL | 63 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 |MAIDEDKQKATSLAIEKQIDKVFSGKALVRLGDK.QVEKIDISTGSL | 63 |
| NTDB id 1334 RA0C RS04870 WP 004918236.1 |MAKTETSPNDDKSKALAAVLEKLDKTYGKGTVMKLGDTVDHNTIEV | 70 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | .MAENKSSKNNTVVKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLD | 78 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQREENLEVIISTGSL | 62 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQREENLEVIISTGSL | 62 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 |MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQREENLEVIISTGSL | 62 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | .MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPV | 70 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 |MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSL | 61 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 |MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSL | 61 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 |MDDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLD | 61 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 |MDENKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLD | 61 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 |MDENKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSTGSLGLD | 61 |
| consensus | *** ** * ** *! *!***** * **!!!*!!*!!*!!*!!*!!*!!*!!* | |

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|---|---|-----|
| NTDB id 1313 DR RS12030 WP 010888966.1 | RIGGGKEKTIAYIAERPEMEQETIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA..... | 363 |
| NTDB id 37553 HMPREF0573 RS07590 WP 004006944.1 | QLGGQKENVKFLVDPNPELSAETEDKILIALGVREDPNAESQPESAASQK.LAVVMDDEAADKGASAKKVQA..S.... | 370 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASK.TKAKAKKEKA..VETEEIELELED.... | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | KIGQGSNAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQDTENKKDE.....PKKEEA...VNEEVPLDLGDELEI | 384 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | KIGQGSNAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQDTENKKDE.....PKKEEA...VNEEVPLDLGDELEI | 384 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | KIGQGSNAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQDTENKKDE.....PKKEEA...VNEEVPLDLGDELEI | 384 |
| NTDB id 159 SP RS09750 WP 001085462.1 | KIGQGSNAKKYLAEHPEIFDEIDKQVRSKFGILIDGEEVSEQDTENKKDE.....PKKEEA...VNEEVPLDLGDELEI | 384 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | KIGQGSNAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAE...SKKDE....VAQVDS...VNEEVTLDLGDELEI | 380 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | KIGQGSNAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE...SKKDE....AAQVDS...VNEEVTLDLGDELEI | 380 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | KIGQGSNAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK...ADKNLVLELDDTIEL | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1 | KIGQGSNAKRYLADHPQLFDEIDRKVVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEI | 376 |
| NTDB id 115 BSU 16940 NP 389576.2 | RLGGQRENAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQAEETQEEL..EFE.E..... | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1 | RIGQGRENAKNYLADHEDVEDEVRLKVRVRAAYGISDVPEEDLPTTEDE.QI..NILPDDST.....EE..... | 355 |
| NTDB id 1245 Cj1673c YP 002345041.1 | KLGGGRENKSAFLKENPEIADETTKATQNSMGIEMISGSEDD..EGEE..... | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | KLGGGRENKALLKEDKALADEITLKKESIGSNEEIMPLPDE..PLEEME..... | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | KLGGGRENKALLKEDKALADEITLKKESIGSNEEIMPLPDE..PLEEME..... | 347 |
| NTDB id 1334 RA0C RS04870 WP 004918236.1 | KLGGGRDTRVKELEKDNPELAEELEAKIREKLQAK..... | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | KIGQGNNAVKWLKENPEIADKLEQETIRNTLASNPNSVLKATASDSNDESVDVEEFSEEL..... | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | KIGQGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGER.....PEE..... | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | KIGQGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGER.....PEE..... | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | KIGQGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGER.....PEE..... | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | RIGQGRDNCREFLRNAREIENKVRHLGVTPMGAVTLA.EEVEED..... | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | KIGQGANACKYWLKENPEIAKTLDDKKLREMLLNPENMQLIAETSSAADDVEFGAVPEEF..... | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | KIGQGANACKYWLKENPEIAKTLDDKKLREMLLNPENMQLIAETSSAADDVEFGAVPEEF..... | 354 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | KIGQGNVIRYLEENPQISTEIEAVIREQLLTKASDQTAH.DETEEEPDLL..ES..... | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | KIGQGNVIRYFEENNQIAEIEIERNIREQLLTTGTNGAVQ.I.EDEEPPDLL..LES..... | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | KIGQGANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI..... | 347 |
| consensus | **!!!**** ** * ** ** ** ** | |

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| NTDB id | Accession | Conservation | Length |
|---------|-----------------------------------|--------------|--------|
| 1313 | DR RS12030 WP 010888966.1 | | 363 |
| 37553 | HMPREF0573 RS07590 WP 004006944.1 | | 370 |
| 600 | KW2 RS01765 WP 011675413.1 | | 387 |
| 269 | KZH43 RS08665 WP 001085462.1 | EIEE | 388 |
| 228 | SPD RS09265 WP 001085462.1 | EIEE | 388 |
| 194 | SPR RS08825 WP 001085462.1 | EIEE | 388 |
| 159 | SP RS09750 WP 001085462.1 | EIEE | 388 |
| 527 | SMSK321 RS11065 WP 001085454.1 | EIEE | 384 |
| 499 | SM12261 RS08315 WP 078228268.1 | EIEE | 384 |
| 408 | SMU RS09530 WP 002262392.1 | ED.. | 383 |
| 453 | Spy49 1753c ACI62003.1 | ED.. | 378 |
| 115 | BSU 16940 NP 389576.2 | | 348 |
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| 1211 | C694 RS00795 WP 000963128.1 | | 347 |
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| 1142 | GTF74 RS11550 WP 000344154.1 | | 354 |
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| 1074 | ABD1 RS10195 WP 000344167.1 | | 349 |
| 1205 | PSJM300 05545 AFN77183.1 | | 347 |

consensus

-  non conserved
-  similar
-  ≥ 50% conserved