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NTDB id 1211 C694 RS00795 WP 000963128.1     ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRII   63
NTDB id 1334 RA0C RS04870 WP 004918236.1     ..........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIV   70
NTDB id 1389 A4U84 RS07560 WP 021112712.1    .MAENKKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV   78
NTDB id 1130 NGFG RS03960 WP 003688695.1     ...................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIV   62
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NTDB id 1123 OK783 RS03845 WP 003688695.1    ...................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIV   62
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NTDB id 1142 GTF74 RS11550 WP 000344154.1    ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV   61
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NTDB id 1022 ACIAD RS06390 WP 004925639.1    ...................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV   61
NTDB id 1205 PSJM300 05545 AFN77183.1        ...................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIV   61
NTDB id 1313 DR RS12030 WP 010888966.1       .MSKD...AT.KEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT   74
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NTDB id 338637 EQH16 RS09400 WP 001085461.1 .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII   75
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NTDB id 527 SMSK321 RS11065 WP 001085454.1  .MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII   75
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NTDB id 625 LCA RS02525 WP 011374196.1       ................MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV   62
NTDB id 115 BSU 16940 NP 389576.2            ...................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRII   60
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NTDB id 1074 ABD1 RS10195 WP 000344167.1     EIYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIV   141
NTDB id 1022 ACIAD RS06390 WP 004925639.1    EIYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIV   141
NTDB id 1205 PSJM300 05545 AFN77183.1        EIYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVII   141
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NTDB id 338637 EQH16 RS09400 WP 001085461.1 EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 269 KZH43 RS08665 WP 001085462.1    EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 228 SPD RS09265 WP 001085462.1      EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 194 SPR RS08825 WP 001085462.1      EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 159 SP RS09750 WP 001085462.1       EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 499 SM12261 RS08315 WP 078228268.1  EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 527 SMSK321 RS11065 WP 001085454.1  EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
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NTDB id 625 LCA RS02525 WP 011374196.1      EIYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILV   142
NTDB id 115 BSU 16940 NP 389576.2           EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVV   140
consensus                                   !**!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!*****!***!!!*!!!*!*! * **  !***!***
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logo
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NTDB id 1211 C694 RS00795 WP 000963128.1     VDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASV  223
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NTDB id 194 SPR RS08825 WP 001085462.1      VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV  234
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NTDB id 115 BSU 16940 NP 389576.2           VDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSV  219
consensus                                   *!!!!!!*!*!!!*!**!!***!!*!!**!*!*!!*** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**!
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NTDB id 499 SM12261 RS08315 WP 078228268.1   RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
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consensus                                    !****!*             *  ** ****!**!!!*!*!!***  ****!*!*** **** **   *** ! !*****!
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NTDB id 1389 A4U84 RS07560 WP 021112712.1    KIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEF......SEEEL.............  372
NTDB id 1130 NGFG RS03960 WP 003688695.1     KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.......GER......PEE...............  348
NTDB id 1124 NGFG RS03960 WP 003688695.1     KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.......GER......PEE...............  348
NTDB id 1123 OK783 RS03845 WP 003688695.1    KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.......GER......PEE...............  348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1     KIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.D..LL......LES................  349
NTDB id 1022 ACIAD RS06390 WP 004925639.1    KIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.D..LL......ES................  349
NTDB id 1205 PSJM300 05545 AFN77183.1        KIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.D..I..........................  347
NTDB id 1313 DR RS12030 WP 010888966.1       RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPA......APEAAEA.....................  363
NTDB id 600 KW2 RS01765 WP 011675413.1       KIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED.......  387
NTDB id 338637 EQH16 RS09400 WP 001085461.1 KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEASEQDTENKKDE....PKKEEA..VNEEVTLDLGDELEIEIE  387
NTDB id 269 KZH43 RS08665 WP 001085462.1    KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 228 SPD RS09265 WP 001085462.1      KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 194 SPR RS08825 WP 001085462.1      KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 159 SP RS09750 WP 001085462.1       KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 499 SM12261 RS08315 WP 078228268.1  KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEIE  383
NTDB id 527 SMSK321 RS11065 WP 001085454.1  KIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIE  383
NTDB id 408 SMU RS09530 WP 002262392.1      KIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.......ETDEK..ADKNLVLELDDTIELED.  383
NTDB id 453 Spy49 1753c ACI62003.1          KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE.......E.......TDDLALDLDNGIEIED.  378
NTDB id 625 LCA RS02525 WP 011374196.1      RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE..............  355
NTDB id 115 BSU 16940 NP 389576.2            RLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E........................  348
consensus                                    **!!!***** ** * *** ****  **    **              *
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logo
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NTDB id 1245 Cj1673c YP 002345041.1             .   343
NTDB id 1214 NCTC11637 00359 SQJ03206.1         .   347
NTDB id 1211 C694 RS00795 WP 000963128.1        .   347
NTDB id 1334 RA0C RS04870 WP 004918236.1        .   343
NTDB id 1389 A4U84 RS07560 WP 021112712.1       .   372
NTDB id 1130 NGFG RS03960 WP 003688695.1        .   348
NTDB id 1124 NGFG RS03960 WP 003688695.1        .   348
NTDB id 1123 OK783 RS03845 WP 003688695.1       .   348
NTDB id 1427 RS RS02760 WP 011000510.1          .   352
NTDB id 1165 A1552VC RS01565 WP 000344154.1     .   354
NTDB id 1142 GTF74 RS11550 WP 000344154.1       .   354
NTDB id 1074 ABD1 RS10195 WP 000344167.1        .   349
NTDB id 1022 ACIAD RS06390 WP 004925639.1       .   349
NTDB id 1205 PSJM300 05545 AFN77183.1           .   347
NTDB id 1313 DR RS12030 WP 010888966.1          .   363
NTDB id 600 KW2 RS01765 WP 011675413.1          .   387
NTDB id 338637 EQH16 RS09400 WP 001085461.1     E   388
NTDB id 269 KZH43 RS08665 WP 001085462.1        E   388
NTDB id 228 SPD RS09265 WP 001085462.1          E   388
NTDB id 194 SPR RS08825 WP 001085462.1          E   388
NTDB id 159 SP RS09750 WP 001085462.1           E   388
NTDB id 499 SM12261 RS08315 WP 078228268.1      E   384
NTDB id 527 SMSK321 RS11065 WP 001085454.1      E   384
NTDB id 408 SMU RS09530 WP 002262392.1          .   383
NTDB id 453 Spy49 1753c ACI62003.1              .   378
NTDB id 625 LCA RS02525 WP 011374196.1          .   355
NTDB id 115 BSU 16940 NP 389576.2               .   348
consensus
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X non conserved
X similar
X $\geq$ 50% conserved