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NTDB id 1211 C694 RS00795 WP 000963128.1    ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIIE   64
NTDB id 1334 RA0C RS04870 WP 004918236.1    .........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIVE   71
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NTDB id 1427 RS RS02760 WP 011000510.1      MEDG........KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVVE   71
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NTDB id 1142 GTF74 RS11550 WP 000344154.1   ..................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE   62
NTDB id 1022 ACIAD RS06390 WP 004925639.1   ..................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE   62
NTDB id 1074 ABD1 RS10195 WP 000344167.1    ..................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIIE   62
NTDB id 1205 PSJM300 05545 AFN77183.1       ..................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIVE   62
NTDB id 35115 APRE RS03240 WP 015777570.1   ..................MDKDKQKALDQAFKNIEKKYGKGAIMKMGEA.PRVSVSAIPTGAVNLDIALGIGGIPRGRVVE   62
NTDB id 600 KW2 RS01765 WP 011675413.1      MA..TKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE   77
NTDB id 269 KZH43 RS08665 WP 001085462.1    .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE   76
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NTDB id 115 BSU 16940 NP 389576.2           ..................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRIIE   61
NTDB id 625 LCA RS02525 WP 011374196.1      ................MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIVE   63
consensus                                                   **  ***  **  ***! *!!********       *  ***!***!!*!!! !! !*!!**!
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NTDB id 1389 A4U84 RS07560 WP 021112712.1   IYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVIIV   159
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NTDB id 1124 NGFG RS03960 WP 003688695.1    IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV   143
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NTDB id 1074 ABD1 RS10195 WP 000344167.1    IYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV   142
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NTDB id 269 KZH43 RS08665 WP 001085462.1    IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
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NTDB id 159 SP RS09750 WP 001085462.1       IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 527 SMSK321 RS11065 WP 001085454.1  IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 499 SM12261 RS08315 WP 078228268.1  IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 453 Spy49 1753c ACI62003.1          IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 408 SMU RS09530 WP 002262392.1     IYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 115 BSU 16940 NP 389576.2           VYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVVV   141
NTDB id 625 LCA RS02525 WP 011374196.1      IYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILVV   143
consensus                                   **!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!*****!***!!!*!!!*!*! * ***!***!*****
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logo
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NTDB id 1245 Cj1673c YP 002345041.1         DSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYASVR   222
NTDB id 1214 NCTC11637 00359 SQJ03206.1     DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR   224
NTDB id 1211 C694 RS00795 WP 000963128.1    DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR   224
NTDB id 1334 RA0C RS04870 WP 004918236.1    DSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASVR   230
NTDB id 1389 A4U84 RS07560 WP 021112712.1   DSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYASVR   238
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NTDB id 1124 NGFG RS03960 WP 003688695.1    DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR   222
NTDB id 1123 OK783 RS03845 WP 003688695.1   DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR   222
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NTDB id 115 BSU 16940 NP 389576.2           DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSVR   220
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consensus                                   !!!!!!*!*!!!*!**!!***!!*!!**!*!*!**** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**!!
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consensus                                   ***!*            *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** ! !****!    *
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NTDB id 1211 C694 RS00795 WP 000963128.1    LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEM.E.............................  347
NTDB id 1334 RA0C RS04870 WP 004918236.1    LGQGRDTVKELIKDNPELAEELEAKIREKLQAK................................................  343
NTDB id 1389 A4U84 RS07560 WP 021112712.1   IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEFS......EEEL...............  372
NTDB id 1130 NGFG RS03960 WP 003688695.1    IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGER.......P......EE.................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1    IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGER.......P......EE.................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1   IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGER.......P......EE.................  348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1    IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.DLL..L......ES.................  349
NTDB id 1205 PSJM300 05545 AFN77183.1       IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.............................  347
NTDB id 35115 APRE RS03240 WP 015777570.1   LGQGRENVKDLLEENPELMAQIDAEVRKSIIQAQEDGEENTEEDKKEEEKK...............................  347
NTDB id 600 KW2 RS01765 WP 011675413.1      IGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED........  387
NTDB id 269 KZH43 RS08665 WP 001085462.1    IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 228 SPD RS09265 WP 001085462.1      IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 194 SPR RS08825 WP 001085462.1      IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 159 SP RS09750 WP 001085462.1       IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 527 SMSK321 RS11065 WP 001085454.1  IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 499 SM12261 RS08315 WP 078228268.1  IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 453 Spy49 1753c ACI62003.1          IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE.......E.......TDDLALDLDNGIEIED..  378
NTDB id 408 SMU RS09530 WP 002262392.1      IGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.......ETDEK..ADKNLVLELDDTIELED..  383
NTDB id 115 BSU 16940 NP 389576.2           LGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E.........................  348
NTDB id 625 LCA RS02525 WP 011374196.1      IGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE................  355
consensus                                   *!!!***** ** ***** ****  **   **              *
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X non conserved

X similar

X $\geq$ 50% conserved