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logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1284 ACE17W RS12370 WP 010946666.1     MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1257 GCO85 RS04855 WP 163621000.1      MRKIIAILIL..ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1193 PAKAF RS26665 WP 003161249.1      MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T   76
NTDB id 1009 ACIAD RS15175 WP 004923730.1      MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLA..K   77
NTDB id 1039 HON27 RS01460 WP 031993779.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1       MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
consensus                                      !* **  * ** *** *  ***   **  * ** **********!  **   ! ** ***! !**!!*    * *   *

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENS.............KEVFITNQV  145
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENS.............KEVFITNQV  145
NTDB id 1257 GCO85 RS04855 WP 163621000.1      KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENS.............KEVFITNQV  145
NTDB id 1193 PAKAF RS26665 WP 003161249.1      KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY  156
NTDB id 1009 ACIAD RS15175 WP 004923730.1      SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT..........PVAT..SA.......  138
NTDB id 1039 HON27 RS01460 WP 031993779.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK..........PLPV..VS.......  138
NTDB id 1052 ABD1 RS15850 WP 001017033.1       SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK..........PLPV..VS.......  138
consensus                                      * *** **   !* **   *! !****!  * *******!*** ****         *       *

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1284 ACE17W RS12370 WP 010946666.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1257 GCO85 RS04855 WP 163621000.1      VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1193 PAKAF RS26665 WP 003161249.1      VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT  236
NTDB id 1009 ACIAD RS15175 WP 004923730.1      PAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNG  218
NTDB id 1039 HON27 RS01460 WP 031993779.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 1052 ABD1 RS15850 WP 001017033.1       .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
consensus                                      * *  ****!*!*******! !**!**** ***!****! **** ** ***!  ! *!****!!**!!* *   *** *

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1284 ACE17W RS12370 WP 010946666.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1257 GCO85 RS04855 WP 163621000.1      RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1193 PAKAF RS26665 WP 003161249.1      SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG  316
NTDB id 1009 ACIAD RS15175 WP 004923730.1      VISIQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQG  297
NTDB id 1039 HON27 RS01460 WP 031993779.1      VITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 1052 ABD1 RS15850 WP 001017033.1       VITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
consensus                                       **! **! !****!! ************ ** *  * * * **!***!!*!!*!**! !!!!*!!!!**!*! *!*!!!
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logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADISVLI  385
NTDB id 1284 ACE17W RS12370 WP 010946666.1     DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI  385
NTDB id 1257 GCO85 RS04855 WP 163621000.1      DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI  385
NTDB id 1193 PAKAF RS26665 WP 003161249.1      NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF  396
NTDB id 1009 ACIAD RS15175 WP 004923730.1      NITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEKLI  377
NTDB id 1039 HON27 RS01460 WP 031993779.1      NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI  376
NTDB id 1052 ABD1 RS15850 WP 001017033.1       NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI  376
consensus                                      *!!!*!***!!!!!!!**!*!**!!!!* !!!***** *** * !******* ** *!*!*****!***!!!!*!!  !*

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  KDKQN.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV  434
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KDKQN.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV  434
NTDB id 1257 GCO85 RS04855 WP 163621000.1      KDKQN.............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV  434
NTDB id 1193 PAKAF RS26665 WP 003161249.1      QSVTSDGGQEG.......................KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV  450
NTDB id 1009 ACIAD RS15175 WP 004923730.1      TQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVKQV  448
NTDB id 1039 HON27 RS01460 WP 031993779.1      TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV  456
NTDB id 1052 ABD1 RS15850 WP 001017033.1       TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV  456
consensus                                         *                                 **** !!*!**! !!!******** *****!*** *!!**!*!!

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  LIEARIVEVTKDFSQDIGIRWGVSRPTHL.SGT.LEGANEL...........AR......GTAPANVVPLERRLNLDLAA  495
NTDB id 1284 ACE17W RS12370 WP 010946666.1     LIEARIVEVTKDFSQDIGIRWGVSRPTHL.SGT.LEGANEL...........AR......GTAPANVVPLERRLNLDLAA  495
NTDB id 1257 GCO85 RS04855 WP 163621000.1      LIEARIVEVTKDFSQDIGIRWGVSRPTHL.SGT.LEGANEL...........AR......GTAPANVVPLERRLNLDLAA  495
NTDB id 1193 PAKAF RS26665 WP 003161249.1      MIEARIVEANVGYDKSLGVRWGGAYHKGNWSG....YGKDGN.IGIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLGA  525
NTDB id 1009 ACIAD RS15175 WP 004923730.1      MIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPD...SN.....GTYTI...ERPDNLNVDLGV  517
NTDB id 1039 HON27 RS01460 WP 031993779.1      MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDLGV  530
NTDB id 1052 ABD1 RS15850 WP 001017033.1       MVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYKYTI...ERPDNLNVDLGV  530
consensus                                      **!!!!!***  *****!**!!*       **  * ** *     **      *      ****     *   ***!!**

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  APLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAF  571
NTDB id 1284 ACE17W RS12370 WP 010946666.1     APLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAF  571
NTDB id 1257 GCO85 RS04855 WP 163621000.1      VPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGA...TAVAF  571
NTDB id 1193 PAKAF RS26665 WP 003161249.1      .....KDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGA...TSTSF  595
NTDB id 1009 ACIAD RS15175 WP 004923730.1      .....TTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSF  592
NTDB id 1039 HON27 RS01460 WP 031993779.1      .....SNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSF  604
NTDB id 1052 ABD1 RS15850 WP 001017033.1       .....SNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSF  604
consensus                                          **** *!*** *   ****!!!*!!!** *! *!**!*!********  !** *!  **!!!****!*!    ****!
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logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1257 GCO85 RS04855 WP 163621000.1      KKAVLSLKVTPQITPDGKILMDLQINQDTPSPQ.TFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFG   650
NTDB id 1193 PAKAF RS26665 WP 003161249.1      KEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLG   675
NTDB id 1009 ACIAD RS15175 WP 004923730.1      KEALLSLEVTPNITPDGKILMELNIANDSINS.YAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLG   671
NTDB id 1039 HON27 RS01460 WP 031993779.1      KDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFG   683
NTDB id 1052 ABD1 RS15850 WP 001017033.1       KDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFG   683
consensus                                      !*!*!!! !!!*!!!!**!****** *!**  *   *!** ***********!!**!*!***!!** ** ** * **!!*!

logo
NTDB id 1076341 ACJEHO RS04340 WP 110539734.1  ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1     ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1257 GCO85 RS04855 WP 163621000.1      ELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1193 PAKAF RS26665 WP 003161249.1      ELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
NTDB id 1009 ACIAD RS15175 WP 004923730.1      DLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1039 HON27 RS01460 WP 031993779.1      DIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1       DIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
consensus                                      **!**!*!!**  ******!!!*!*!!!!*** *
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X non conserved

X similar

X $\geq$ 50% conserved