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logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   MRKIIAILILIS..ASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1257 GC085 RS04855 WP 163621000.1   MRKIIAILILIS..ASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1009 ACIAD RS15175 WP 004923730.1   MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGGGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLAK..   77
NTDB id 1039 HON27 RS01460 WP 031993779.1   MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGGGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQ..   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1   MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGGGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLKQ..   77
NTDB id 373749 FFH21 RS01815 WP 011167465.1 MTRILSIIGVSLC.IAMLSPVLQAANLKTLDVAALPGDRIELKLAFDSPVP.APRGYTTAQPARIALDLPGVTSQLAT..   76
NTDB id 1193 PAKAF RS26665 WP 003161249.1   MNSGLSRLGIALL.AAMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLGT..   76
consensus                                   !  **  * ** *  *** ***   **  * ** ********** !  ***  ! ** ***! !**!!*    * * *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKEVFIT................N   143
NTDB id 1257 GC085 RS04855 WP 163621000.1   KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSKEVFIT................N   143
NTDB id 1009 ACIAD RS15175 WP 004923730.1   SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT...........PVAT..........   136
NTDB id 1039 HON27 RS01460 WP 031993779.1   SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK...........PLPV..........   136
NTDB id 1052 ABD1 RS15850 WP 001017033.1   SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK...........PLPV..........   136
NTDB id 373749 FFH21 RS01815 WP 011167465.1 KSRELGNGNARSVVVVQAQDRTRVIINLTMLSPYSSRVDGNNLYVVIGQGAAAAQASQPTTAMGAQRVAVPPPTPASARP   156
NTDB id 1193 PAKAF RS26665 WP 003161249.1   KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAP.VKASPAPASYAQPIKPKP   155
consensus                                   * ***  * * !* **   *!*!****!     ******!* * ****              *   **

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   QVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGK   223
NTDB id 1257 GC085 RS04855 WP 163621000.1   QVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGK   223
NTDB id 1009 ACIAD RS15175 WP 004923730.1   SAPAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGS   216
NTDB id 1039 HON27 RS01460 WP 031993779.1   VS.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKG   215
NTDB id 1052 ABD1 RS15850 WP 001017033.1   VS.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKG   215
NTDB id 373749 FFH21 RS01815 WP 011167465.1 FIPAGVKAIRNVDFQRGELGEGNVIIDLSNPGIAPDIQEQGGKIRVDFAKTQLPEPLRVRLDVKDFATPVQFVSASATGD   236
NTDB id 1193 PAKAF RS26665 WP 003161249.1   YVPAG.RAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSD   234
consensus                                    * **  ******!**** **! !**!** * ***!****! **** ** ***!  ! *!*** !!**!!* * * ***

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   KVRMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKV   303
NTDB id 1257 GC085 RS04855 WP 163621000.1   KVRMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKV   303
NTDB id 1009 ACIAD RS15175 WP 004923730.1   NGVISIQSTGSYEYMAYQAENKLTISLKRPQDN.VRLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSV   295
NTDB id 1039 HON27 RS01460 WP 031993779.1   VGVITIQSSGSYEYMAYQAENKLTISLKRPQDK.NVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSV   294
NTDB id 1052 ABD1 RS15850 WP 001017033.1   VGVITIQSSGSYEYMAYQAENKLTISLKRPQDK.NVTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSV   294
NTDB id 373749 FFH21 RS01815 WP 011167465.1 KASILIEPSGAFDYSAFQTENKLTISVRPLTNEDLDRRAADKPVYTGEKLSLNFQDIDVRSVLQLIADFTNLNLVASDTV   316
NTDB id 1193 PAKAF RS26665 WP 003161249.1   RTSITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTV   314
consensus                                   ** **! **! ******! ************ ***      *   **! **!!*!!*!**! !!!!*!!!!**!*!**!*!
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logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   QGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAV   383
NTDB id 1257 GC085 RS04855 WP 163621000.1   QGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAV   383
NTDB id 1009 ACIAD RS15175 WP 004923730.1   QGNITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEK   375
NTDB id 1039 HON27 RS01460 WP 031993779.1   QGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMG   374
NTDB id 1052 ABD1 RS15850 WP 001017033.1   QGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMG   374
NTDB id 373749 FFH21 RS01815 WP 011167465.1   QGGITLRLQNVPWDQALDLVLKTKGLDKRKVGSVLLVAPADEIAARERQELESLKQIAELAPLRRELLQVNYAKAADIAK   396
NTDB id 1193 PAKAF RS26665 WP 003161249.1   QGNITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAK   394
consensus                                   !!*!!!*!***!!!!!!!**!*!**!!!!* !*!***** *** * !******* ** *!*!*********!!!!*!!*

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   LIKDKQ.............................NSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVK   432
NTDB id 1257 GC085 RS04855 WP 163621000.1   LIKDKQ.............................NSLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVK   432
NTDB id 1009 ACIAD RS15175 WP 004923730.1   LITQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVK   446
NTDB id 1039 HON27 RS01460 WP 031993779.1   LITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVK   454
NTDB id 1052 ABD1 RS15850 WP 001017033.1   LITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVK   454
NTDB id 373749 FFH21 RS01815 WP 011167465.1   LFQSVTSAE..........................SKTDERGSITVDDRTNNIIAYQTQDRLDELRRIVSQLDIPVR   447
NTDB id 1193 PAKAF RS26665 WP 003161249.1   LFQSVTSDGGQ........................EGKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVR   448
consensus                                   !*   *                               **** !!*!**!*!!!******** *****!*** *!!**!*

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   QVLIEARIVEVTKDFSQDIGIRWGVSRPTHLSGT..LEGANEL.............ARGTAPANV........VPL....   485
NTDB id 1257 GC085 RS04855 WP 163621000.1   QVLIEARIVEVTKDFSQDIGIRWGVSRPTHLSGT..LEGANEL.............ARGTAPANV........VPL....   485
NTDB id 1009 ACIAD RS15175 WP 004923730.1   QVMIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPDSN..................GTYTI...E   506
NTDB id 1039 HON27 RS01460 WP 031993779.1   QVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKKDE............TTGGYKYTI...E   519
NTDB id 1052 ABD1 RS15850 WP 001017033.1   QVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPKKDE............TTGGYKYTI...E   519
NTDB id 373749 FFH21 RS01815 WP 011167465.1   QVMIEARIVEANVDYNKQLGVRWGGSTNTSGNG...........KWTTYGLDNNGDEAGNTG................SNV   501
NTDB id 1193 PAKAF RS26665 WP 003161249.1   QVMIEARIVEANVGYDKSLGVRWGGAYH...KG...........NWSGYGKDGNIGIKDEDGMNCGPIAGSCTFPTTGTS   514
consensus                                   !!**!!!!!***  *****!**!!* **   **   * ** *   *                          * *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   .ERRLNLDLAAAPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATS   563
NTDB id 1257 GC085 RS04855 WP 163621000.1   .ERRLNLDLAAVPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATS   563
NTDB id 1009 ACIAD RS15175 WP 004923730.1   RPDNLNVDLG.....VITTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTN   581
NTDB id 1039 HON27 RS01460 WP 031993779.1   RPDNLNVDLG.....VSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTN   593
NTDB id 1052 ABD1 RS15850 WP 001017033.1   RPDNLNVDLG.....VSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTN   593
NTDB id 373749 FFH21 RS01815 WP 011167465.1   TSNVPFVDMG.....ASGA.TSGIGLGFV.TNNTLLDLELSAMEKTGNGEIVSQPKVVTSDKETAKILKGTEIPYQESSS   574
NTDB id 1193 PAKAF RS26665 WP 003161249.1   KSPSPFVDLG.....AKDA.TSGIGIGFI.TDNILLDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASS   587
consensus                                   *   ***!**     ** * * *!*** *   * *!!!*!!!** *! *!**!*!*****!*!** *! **!!!****
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logo

NTDB id 1284 ACE17W RS12370 WP 010946666.1   SGA...TAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDK   639
NTDB id 1257 GC085 RS04855 WP 163621000.1   SGA...TAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDK   639
NTDB id 1009 ACIAD RS15175 WP 004923730.1   SAAGSTATTSFKEALLSLEVTPNITPDGKILMELNIANDSINS.YAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTT   660
NTDB id 1039 HON27 RS01460 WP 031993779.1   SAAGSTATTSFKDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTT   672
NTDB id 1052 ABD1 RS15850 WP 001017033.1    SAAGSTATTSFKDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTT   672
NTDB id 373749 FFH21 RS01815 WP 011167465.1 SGA...TTVSFKEASLSLEVTPQITPDNRIIMEVKVTKDEPDYLNAVLGVPPIKKNEVNAKVLISDGETIVIGGVFSNIQ   651
NTDB id 1193 PAKAF RS26665 WP 003161249.1   SGA...TSTSFKEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQ   664
consensus                                   !*!   ****!!*!*!!! !!!*!!!!**!**** ***!**   ** *!** **********!***!*!***!!** **

logo

NTDB id 1284 ACE17W RS12370 WP 010946666.1   NKVINRIPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1257 GC085 RS04855 WP 163621000.1   NKVINRIPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1009 ACIAD RS15175 WP 004923730.1   NNAVTKVPFLGDLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1039 HON27 RS01460 WP 031993779.1   MNSQTKVPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1    MNSQTKVPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 373749 FFH21 RS01815 WP 011167465.1 SKVVDKVPFLGDVPYLGRLFRRDVVSESKSELLVFLTPRIMNNQAISVSR.........   701
NTDB id 1193 PAKAF RS26665 WP 003161249.1   SKSVEKVPFLGELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
consensus                                    * * **!!*!**!**!*!!*** *** **!!!*!*!!!!*** *
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X non conserved

X similar

X ≥ 50% conserved