```
logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   .MRKII..........AILILISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFIS   69
NTDB id 1257 GC085 RS04855 WP 163621000.1   .MRKII..........AILILISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFIS   69
NTDB id 1009 ACIAD RS15175 WP 004923730.1   .MKQIIRQFSIGTV..AYA......IMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDK   70
NTDB id 1039 HON27 RS01460 WP 031993779.1   .MNHVFRQFSMGAV..AIA......IMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDK   70
NTDB id 1052 ABD1 RS15850 WP 001017033.1    .MNHVFRQFSMGAV..AIA......IMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDK   70
NTDB id 321421 EAW52 RS18245 WP 162997778.1 MLHKTILQRVSGKSALTLAILL.SGICPSLLLAADLKAMNVASLPGDRVELKLSFDQPVT.APKGYTIEQPARIALDLPG   78
NTDB id 1193 PAKAF RS26665 WP 003161249.1   ........MNSGLSRLGIALL..AAMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPG   69
consensus                                    *  ** *   *    *****    *  ***   **  * ** ********** !  **   ! ** ***! !**!!*

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   TDMQIPSDQKTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENS.............   136
NTDB id 1257 GC085 RS04855 WP 163621000.1   TDMQIPSDQKTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENS.............   136
NTDB id 1009 ACIAD RS15175 WP 004923730.1   AGQKLA..KSLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTATPV..............   134
NTDB id 1039 HON27 RS01460 WP 031993779.1   AQQGLK..QSKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNKPL..............   134
NTDB id 1052 ABD1 RS15850 WP 001017033.1    AQQGLK..QSKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNKPL..............   134
NTDB id 321421 EAW52 RS18245 WP 162997778.1 VNNKLG..VFNKELGSGNARSVTVVEAGDRTRLIVNLTALAPYSTRVQGNDLFVVIGGDQAARTTSASVPAPSLPRSGAA   156
NTDB id 1193 PAKAF RS26665 WP 003161249.1   VQNKLG..TKNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASY   147
consensus                                    ** *   ** *** ** * !* **   *!*!****!   * ******!* * ****  *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   .........KEVFITNQVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVS   207
NTDB id 1257 GC085 RS04855 WP 163621000.1   .........KEVFITNQVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVS   207
NTDB id 1009 ACIAD RS15175 WP 004923730.1   ....ATS..........APAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTT   200
NTDB id 1039 HON27 RS01460 WP 031993779.1   ....PVV..........S.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVN   199
NTDB id 1052 ABD1 RS15850 WP 001017033.1    ....PVV..........S.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVN   199
NTDB id 321421 EAW52 RS18245 WP 162997778.1 QAPAPATNPAGRVFSSVPRLAGKAIRNIDFKRGDDGEGNVIIDLSETGISPDIQEQGGKIRLNFGKTQLPDALRVRLDVK   236
NTDB id 1193 PAKAF RS26665 WP 003161249.1   AQP.........IKPKPYVPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVK   218
consensus                                                  *  ****!*!**** **! !**!**** ***!****!  **** ** ***!   !  *!***

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   DFHSPVQIITMQQEGKKVRMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQ   287
NTDB id 1257 GC085 RS04855 WP 163621000.1   DFHSPVQIITMQQEGKKVRMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQ   287
NTDB id 1009 ACIAD RS15175 WP 004923730.1   DFATPVASIDSYNDGSNGVISIQSTGSYEYMAYQAENKLTISLKRPQDNVR.LNSKNNQNYTGKKISLDFQDIEVRRVLQ   279
NTDB id 1039 HON27 RS01460 WP 031993779.1   DFATPVSSIDAYNDKGVGVITIQSSGSYEYMAYQAENKLTISLKRPQDKNV.TSLYKTPNYSGNKLSLDFQDIEVRRVLQ   278
NTDB id 1052 ABD1 RS15850 WP 001017033.1    DFATPVSSIDAYNDKGVGVITIQSSGSYEYMAYQAENKLTISLKRPQDKNV.TSLYKTPNYSGNKLSLDFQDIEVRRVLQ   278
NTDB id 321421 EAW52 RS18245 WP 162997778.1 DFATPVQFVNASSQAGDTVITIEPTGVYDYLAYQTDNKLTISVKPLTAKEKEQRAAERFTYTGEKLSLNFQDIDVRSVLQ   316
NTDB id 1193 PAKAF RS26665 WP 003161249.1   DFATPVQFVNASAQSDRTSITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQ   298
consensus                                   !!**!!* * * ***   ***! **! !****!! ***********  **     *   **! **!!*!!*!**! !!!
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logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   LLADFTGINMVVSDKVQGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIR   367
NTDB id 1257 GC085 RS04855 WP 163621000.1   LLADFTGINMVVSDKVQGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIR   367
NTDB id 1009 ACIAD RS15175 WP 004923730.1   LLADFTNINMVTADSVQGNITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQ   359
NTDB id 1039 HON27 RS01460 WP 031993779.1   LLADFTGINMVAADSVQGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQ   358
NTDB id 1052 ABD1 RS15850 WP 001017033.1   LLADFTGINMVAADSVQGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQ   358
NTDB id 321421 EAW52 RS18245 WP 162997778.1   LIADFTGLNLVASDTVQGNITLRLQNVPWDQALDLVLKTKGLDKRQIGNVLLIAPADEIAARERQELESQKQIQELAPLR   396
NTDB id 1193 PAKAF RS26665 WP 003161249.1   LIADFTDLNLVASDTVQGNITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLR   378
consensus                                   !*!!!!**!*!**!*!!!*!!!*!***!!!!!!!**!*!**!!!!* !!!***** *** * !******* ** *!*!**

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   SDLIQINYAKAADIAVLIKDKQ.............................NSLLSDRGKISVDARTNTIWIQDTGTK   416
NTDB id 1257 GC085 RS04855 WP 163621000.1   SDLIQINYAKAADIAVLIKDKQ.............................NSLLSDRGKISVDARTNTIWIQDTGTK   416
NTDB id 1009 ACIAD RS15175 WP 004923730.1   TEYILLKYAKAADIEKLITQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQK   430
NTDB id 1039 HON27 RS01460 WP 031993779.1   TEYIQLKYAKAGDIMGLITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQS   438
NTDB id 1052 ABD1 RS15850 WP 001017033.1   TEYIQLKYAKAGDIMGLITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQS   438
NTDB id 321421 EAW52 RS18245 WP 162997778.1   RELIQVNYAKAADMAKLFQSVTKADA..........................GQSERGSITVDDRTNSIIAYQTQER   447
NTDB id 1193 PAKAF RS26665 WP 003161249.1   RELIQVNYAKAADIAKLFQSVTSDGGQ.........................EGKEGGRGSITVDDRTNSIIAYQPQER   432
consensus                                   ***!***!!!!*!** !*    *                                **** !!*!**!*!!!*******  *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   IEEVRELIKQLDIPVKQVLIEARIVEVTKDFSQDIGIRWGVSRPTHLSG..TLEGANELA...........RG......T   477
NTDB id 1257 GC085 RS04855 WP 163621000.1   IEEVRELIKQLDIPVKQVLIEARIVEVTKDFSQDIGIRWGVSRPTHLSG..TLEGANELA...........RG......T   477
NTDB id 1009 ACIAD RS15175 WP 004923730.1   IDQIRKMIDLLDIPVKQVMIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRNPD...SN.....GT   502
NTDB id 1039 HON27 RS01460 WP 031993779.1   IDQIRKMIDLLDVQVKQVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYK   515
NTDB id 1052 ABD1 RS15850 WP 001017033.1   IDQIRKMIDLLDVQVKQVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLREPK...KDETTGGYK   515
NTDB id 321421 EAW52 RS18245 WP 162997778.1   LDELRRIVSQLDIPVRQVMIQARIVEANVNYNKQLGVNWSGSRTGNGN...FTLSG.......................   500
NTDB id 1193 PAKAF RS26665 WP 003161249.1   LDELRRIVSQLDIPVRQVMIEARIVEANVGYDKSLGVRWGGAYHKG.N...WSGYGKDGNIG.IKDEDGMNCGPIAGSCT   507
consensus                                   ****!*** *!!**!*!!***!!!!***  *****!**!**   *  *    **** *  *  **      *       *

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1   APANVVPLERRLNLDLAAAPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEI   556
NTDB id 1257 GC085 RS04855 WP 163621000.1   APANVVPLERRLNLDLAAVPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEI   556
NTDB id 1009 ACIAD RS15175 WP 004923730.1   YTI...ERPDNLNVDLG.....VTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEV   574
NTDB id 1039 HON27 RS01460 WP 031993779.1   YTI...ERPDNLNVDLG.....VSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQV   586
NTDB id 1052 ABD1 RS15850 WP 001017033.1   YTI...ERPDNLNVDLG.....VSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQV   586
NTDB id 321421 EAW52 RS18245 WP 162997778.1   .AAASGTSTSTPFVDLG.....ASSP.TSTLGIGFL.TSNTTLDLELSAMEASGNGEIVSQPKVVTSDKETAKILRGTEI   572
NTDB id 1193 PAKAF RS26665 WP 003161249.1   FPTTGTSKSPSPFVDLG.....AKDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEV   580
consensus                                   *       *   ***!!*     **** * ***** *  ** *!!!*!!!****! *!**!*!*********!** *! **
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logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1    PYQEATSSGA...TAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLG   632
NTDB id 1257 GC085 RS04855 WP 163621000.1     PYQEATSSGA...TAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLG   632
NTDB id 1009 ACIAD RS15175 WP 004923730.1     PYQSTTNSAAGSTATTSFKEALLSLEVTPNITPDGKILMELNIANDSINS.YAQNGEAILNKNTINTNVLVNNGETVVLG   653
NTDB id 1039 HON27 RS01460 WP 031993779.1     PYQSTTNSAAGSTATTSFKDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILG   665
NTDB id 1052 ABD1 RS15850 WP 001017033.1      PYQSTTNSAAGSTATTSFKDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILG   665
NTDB id 321421 EAW52 RS18245 WP 162997778.1  PYQEASSSGA...TSVSFKEAALSLEVTPQITPDNRIIMEVKVNKDAPDYTNEVNGVPPITKNEVNAKVLIADGETIVIG   649
NTDB id 1193 PAKAF RS26665 WP 003161249.1    PYQEASSSGA...TSTSFKEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIG   657
consensus                                    !!!****!*!    ****!!*!*!!! !!!*!!!!**!**** * *!**    *  *!** **********!***!*!***!

logo
NTDB id 1284 ACE17W RS12370 WP 010946666.1    GIYKQDKNKVINRIPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1257 GC085 RS04855 WP 163621000.1     GIYKQDKNKVINRIPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1009 ACIAD RS15175 WP 004923730.1     GVFEQTTNNAVTKVPFLGDLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1039 HON27 RS01460 WP 031993779.1     GVFEQTTMNSQTKVPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1052 ABD1 RS15850 WP 001017033.1      GVFEQTTMNSQTKVPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 321421 EAW52 RS18245 WP 162997778.1  GVFSNTQSKSTSKVPLLGDVPYVGRLFRRDEITDEKVELLVFLTPRIMNNQAIAVGR.........   706
NTDB id 1193 PAKAF RS26665 WP 003161249.1    GVFSNEQSKSVEKVPFLGELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
consensus                                    !** **   ******!**!**!**!*!!*** *** **!!!*!*!!!!*** *
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X non conserved

X similar

X $\geq$ 50% conserved