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logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1      MRKIIAILIL..ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1284 ACE17W RS12370 WP 010946666.1     MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ   78
NTDB id 1193 PAKAF RS26665 WP 003161249.1      MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T   76
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1 MNHAFRQFSMAAITLAVMQVASAQVSMTNIVPMNLAEQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAQQSLK..Q   77
NTDB id 1009 ACIAD RS15175 WP 004923730.1     MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLA..K   77
NTDB id 1052 ABD1 RS15850 WP 001017033.1      MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
NTDB id 1039 HON27 RS01460 WP 031993779.1     MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQQGLK..Q   77
consensus                                     !* ******** ** ****************************!***** *!*******! !**!!****** *    *

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1      KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSK.............EVFITNQV  145
NTDB id 1284 ACE17W RS12370 WP 010946666.1     KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSK.............EVFITNQV  145
NTDB id 1193 PAKAF RS26665 WP 003161249.1      KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY  156
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1 TSIPVSTNEASSVEVAADDQRSRVIVNLKDAGAFTTRVEGNTFVLKINSAKPAMA...........TPVA.........AV  138
NTDB id 1009 ACIAD RS15175 WP 004923730.1     SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT...........PVAT.........SA  138
NTDB id 1052 ABD1 RS15850 WP 001017033.1      SKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK...........PLPV.........VS  138
NTDB id 1039 HON27 RS01460 WP 031993779.1     SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK...........PLPV.........VS  138
consensus                                     * *** *****!***   **  !*!****!** ********!* ******                   *

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1      VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1284 ACE17W RS12370 WP 010946666.1     VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  225
NTDB id 1193 PAKAF RS26665 WP 003161249.1      VPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRT  236
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1 RQVQQGISNIGFQRGNQGEGLVVIDLLGNNTPVDVQQQGSKIVVRTMGNKIPTHLARRLNTNDFATPVASIDAYNDKGNG  218
NTDB id 1009 ACIAD RS15175 WP 004923730.1     PAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIKIPTHLARRLNTTDFATPVASIDSYNDGSNG  218
NTDB id 1052 ABD1 RS15850 WP 001017033.1      .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
NTDB id 1039 HON27 RS01460 WP 031993779.1     .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTKIPTHLARRLNVNDFATPVSSIDAYNDKGVG  217
consensus                                         *** *!*!*** ***!*!**!* ******!****!*********!**!**!*** !!**!! *******   *

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1      RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1284 ACE17W RS12370 WP 010946666.1     RMTILSKGDYGHFVYQVNKQFMVDVFPLTAEEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG  305
NTDB id 1193 PAKAF RS26665 WP 003161249.1      SITIEPSGLYDYLVYQTDNRLTVSIKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG  316
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1 VVTIQSAGSYEYMAYQAENKLTISLKRPEDKS.PTK.AKTQTYTGNKISLDFQDIEVRRVLQLLADFTGINMVAADTVQG  296
NTDB id 1009 ACIAD RS15175 WP 004923730.1     VISIQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTNINMVTADSVQG  297
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
NTDB id 1039 HON27 RS01460 WP 031993779.1     VITIQSSGSYEYMAYQAENKLTISLKRPQDKN.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSVQG  296
consensus                                     ***!***!*!****!!************ *        * *  **!  **!!*!!*!**!*!!!!*!!!!**!*!**!*!!!
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logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 1284 ACE17W RS12370 WP 010946666.1      DITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI   385
NTDB id 1193 PAKAF RS26665 WP 003161249.1       NITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLF   396
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1  NITLRLKDVPWDQALDIVLKTKNLDKRRNGNVIWIAPVSELIKAEEEEAKAQAQSVKLAPLQTEYITLSYAKAADIEKLI   376
NTDB id 1009 ACIAD RS15175 WP 004923730.1       NITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDEAKAIAQSTKLAPLQTEYILLKYAKAADIEKLI   377
NTDB id 1052 ABD1 RS15850 WP 001017033.1        NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
NTDB id 1039 HON27 RS01460 WP 031993779.1       NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLI   376
consensus                                       *!!!*!***!!!!!!!**!*!**!!!!**!!!*********** !********** *!*!*****!** !!!!*!!  !*

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       KDKQN...............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1284 ACE17W RS12370 WP 010946666.1      KDKQN...............................SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIKQLDIPVKQV   434
NTDB id 1193 PAKAF RS26665 WP 003161249.1       QSVTSDGGQE..........................GKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV   450
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1  TQGKNANTNNGNSSNS............ISNDTLAGGLLSPRGTISIDPRTNTLIVNDTSQKIDQIRKMVDLLDVSVKQV   444
NTDB id 1009 ACIAD RS15175 WP 004923730.1       TQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLDPRTNTLIINDTSQKIDQIRKMIDLLDIPVKQV   448
NTDB id 1052 ABD1 RS15850 WP 001017033.1        TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
NTDB id 1039 HON27 RS01460 WP 031993779.1       TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQDDRTNTLIINDTAQSIDQIRKMIDLLDVQVKQV   456
consensus                                       *** *                                 ******!!*!**! !!!*******************!*****!!**!*!!

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       LIEARIVEVTKDFSQDIGIRWGVSRPTHLSGTLEGANELARGTAPAN................VVPLERRLNLDLAAVPL   498
NTDB id 1284 ACE17W RS12370 WP 010946666.1      LIEARIVEVTKDFSQDIGIRWGVSRPTHLSGTLEGANELARGTAPAN................VVPLERRLNLDLAAAPL   498
NTDB id 1193 PAKAF RS26665 WP 003161249.1       MIEARIVEANVGYDKSLGVRWGGAYHKGNWSGYGKDGNIGIKDEDG..MN.....CGPIAGSCTFPTTGTSKSPSPFVDL   523
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1  MIEARIVSASTDFTKEMGVKWGILSQGIT.....KNNDLLVGGSDTTLWNLRKPEKDSDTGGWKYEI...ERPDNLNVDL   516
NTDB id 1009 ACIAD RS15175 WP 004923730.1       MIEARIVRATTSFSKEMGVKWGILSQGIN.....QNSNLLVGGSETTLWNLRNPDSN.....GTYTI...ERPDNLNVDL   515
NTDB id 1052 ABD1 RS15850 WP 001017033.1        MVEARIVRASTSFTKELGVKWGILSQGIT.....NNNNLLVGGSETTLWNLREPKKDETTGGYKYTI...ERPDNLNVDL   528
NTDB id 1039 HON27 RS01460 WP 031993779.1       MVEARIVRASTSFTKELGVKWGILSQGIT.....NNNNLLVGGSETTLWNLREPKKDETTGGYKYTI...ERPDNLNVDL   528
consensus                                       **!!!!! *** *****!**!!****** *****************  *      *   * *   ********!

logo
NTDB id 1257 GCO85 RS04855 WP 163621000.1       TGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGAT...AVAFKKA   574
NTDB id 1284 ACE17W RS12370 WP 010946666.1      TGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAAVIESGEEIPYQEATSSGAT...AVAFKKA   574
NTDB id 1193 PAKAF RS26665 WP 003161249.1       GAKDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGAT...STSFKEA   598
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1  GAVTPGASRIAFGLISLSDFMLDLELSAVQADGYGEVISTPKVMTADKQAAKIESGKKIPYTSSTGGGANAVPKTEFIDA   596
NTDB id 1009 ACIAD RS15175 WP 004923730.1       GVTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSFKEA   595
NTDB id 1052 ABD1 RS15850 WP 001017033.1        GVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDA   607
NTDB id 1039 HON27 RS01460 WP 031993779.1       GVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGEVISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDA   607
consensus                                       ** ****  !*********!!!*!!!****!**!*!*!******** !** *! **!!**** **!    ***!**!
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logo

NTDB id 1257 GCO85 RS04855 WP 163621000.1        VLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELP   653
NTDB id 1284 ACE17W RS12370 WP 010946666.1       VLSLKVTPQITPDGKILMDLQINQDTPSP.QTFLGVPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELP   653
NTDB id 1193 PAKAF RS26665 WP 003161249.1        ALSLEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGELP   678
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1   TLSLDVTPSITPDGKVMMKLNITKDSQST.PTPTGQLTINKNQIDTNVLVDNGETVVLGGIFEQENISSQVKVPFLGDLP   675
NTDB id 1009 ACIAD RS15175 WP 004923730.1        LLSLEVTPNITPDGKILMELNIANDSINS.YAQNGEAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLGDLP   674
NTDB id 1052 ABD1 RS15850 WP 001017033.1         LLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIP   686
NTDB id 1039 HON27 RS01460 WP 031993779.1        LLSLNVTPSITPDGKIQMKLDISKDSVAG.AAPNGELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIP   686
consensus                                        *!!!  !!!*!!!!*********!*       *!    **** *****!!**!*!***!!*****    **  **!!*!**!

logo

NTDB id 1257 GCO85 RS04855 WP 163621000.1        VVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1       VVGILFSNRQITLKNEELLIFITPRIITNALSITTIEGREKDVYK   698
NTDB id 1193 PAKAF RS26665 WP 003161249.1        YLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIGR.........   714
NTDB id 1094078 ACMHYC RS01990 WP 171067683.1   YVGRLFRRDLKTDNKRELLIFITPRIVNDTLTRNH..........   710
NTDB id 1009 ACIAD RS15175 WP 004923730.1        YVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH..........   709
NTDB id 1052 ABD1 RS15850 WP 001017033.1         VVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
NTDB id 1039 HON27 RS01460 WP 031993779.1        VVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH..........   721
consensus                                        **!*!!***  ***  **!!!*!*!!!!*****   **
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X non conserved

X similar

X $\geq$ 50% conserved