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logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     ...............MNTKLTKIISGLFVATAAFQTASAGNITDIKVSSLPNKQKIVKVSFDKEIV.NPTGFVTSSPARI   64
NTDB id 1257 GC085 RS04855 WP 163621000.1     ...............MRKIIAILIL..ISASLSLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRL   63
NTDB id 1284 ACE17W RS12370 WP 010946666.1    ...............MRKIIAILIL..ISASLSMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRL   63
NTDB id 1193 PAKAF RS26665 WP 003161249.1     ...............MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARI   63
NTDB id 390242 FSC11 RS01440 WP 163164722.1  MNKSFKEFIFGDANTMNHVFRQFSMGAVAIAVMQAASAQVSMTNVVPMQIPGQGTEIRVMFNGLPP.QPQAYQLESPSRL   79
NTDB id 1009 ACIAD RS15175 WP 004923730.1     ...............MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARL   64
NTDB id 1052 ABD1 RS15850 WP 001017033.1      ...............MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRL   64
NTDB id 1039 HON27 RS01460 WP 031993779.1     ...............MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRL   64
consensus                                                    !* **    ** **  *  ***   *** *  * ****  **** !      *! ** ** ! !*

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     ALDFEQTGISMD..QQVLEYADPLLSKISAAQNSSRARLVLNLNKPGQYNTEVRGNKVWIFINESDDTVSAPARPAVKAA  142
NTDB id 1257 GC085 RS04855 WP 163621000.1     VLDFISTDMQIPSDQKTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSKE.....  138
NTDB id 1284 ACE17W RS12370 WP 010946666.1    VLDFISTDMQIPSDQKTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKE.....  138
NTDB id 1193 PAKAF RS26665 WP 003161249.1     ALDLPGVQNKLG..TKNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNNLFVVVGNSPAGASVASTAPVKAS  141
NTDB id 390242 FSC11 RS01440 WP 163164722.1  ILDFDKAQQNLK..QSSIAVATKEASSVDVTSDAQRARLTVNLADAGAFTTRVEGNTFILKINSTNPVI......PV...  148
NTDB id 1009 ACIAD RS15175 WP 004923730.1     ILDFDKAGQKLA..KSLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFTTRVEGNVFILKINNIQSTAT.....PV...  134
NTDB id 1052 ABD1 RS15850 WP 001017033.1      ILDFDKAQQGLK..QSKISVATNEASSVDVTSDDQRSRLTVNLKDAGAFTTRVEGNTFILKINSAQTSNK.....PL...  134
NTDB id 1039 HON27 RS01460 WP 031993779.1     ILDFDKAQQGLK..QSKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK.....PL...  134
consensus                                    *!!**   * *   *  * *     *** *     ! !****!   * ******!* * * **            **

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     PAAPAKQQAAAPFTESVVSVSAPFSPAKQQAAASAKQTNIDFRKDGKNAGIIELAALGFAGQPDISQQHDHIIVTLKNHT  222
NTDB id 1257 GC085 RS04855 WP 163621000.1     .......................VFIT.NQVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTK  195
NTDB id 1284 ACE17W RS12370 WP 010946666.1    .......................VFIT.NQVVNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTK  195
NTDB id 1193 PAKAF RS26665 WP 003161249.1     PAPASY...............AQPIKP.KPYVPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQ  206
NTDB id 390242 FSC11 RS01440 WP 163164722.1  ..Q.......................P..VVQQNTQGITNIGFQRGAKGEGQVVIDLASGNTPVDVQQQGTKVIVRALGSK  202
NTDB id 1009 ACIAD RS15175 WP 004923730.1    ..A.......................T..SAPAPQQGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVVRFPGIK  188
NTDB id 1052 ABD1 RS15850 WP 001017033.1     ..P.......................V..VS.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTK  187
NTDB id 1039 HON27 RS01460 WP 031993779.1    ..P.......................V..VS.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVIRTIGTK  187
consensus                                                                 ** *! !*** ***! *****  *  **!***** ****  * **

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     LPTALQRSLDVADFKTPVQKVTLKRLNNDTQLIITTTGNWELVNKSAAPGYFTFQVLPKKQNLESGGVNNAPKTFTGRKI  302
NTDB id 1257 GC085 RS04855 WP 163621000.1     IPLNLMKRYDVSDFHSPVQIITMQQEGKKVRMTILSKGDYGHFVYQVNKQF.MVDVFPLTA.EEIRQAKLKKQVFTGKRI  273
NTDB id 1284 ACE17W RS12370 WP 010946666.1    IPLNLMKRYDVSDFHSPVQIITMQQEGKKVRMTILSKGDYGHFVYQVNKQF.MVDVFPLTA.EEIRQAKLKKQVFTGKRI  273
NTDB id 1193 PAKAF RS26665 WP 003161249.1     LPDALRVRLDVKDFATPVQFVNASAQSDRTSITIEPSGLYDYLVYQTDNRL.TVSIKPMTT.EDAERRKKDNFAYTGEKL  284
NTDB id 390242 FSC11 RS01440 WP 163164722.1  IPAHLTRRLNVNDFATPVSTVDAVNQNGSGVITIQTSDSYEYMAYQTDNKL.TISLKRPEE.KN.PLRPKAVQHYTGKKI  279
NTDB id 1009 ACIAD RS15175 WP 004923730.1    IPTHLARRLNTTDFATPVASIDSYNDGSNGVISIQSTGSYEYMAYQAENKL.TISLKRPQD.NV.RLNSKNNQNYTGKKI  265
NTDB id 1052 ABD1 RS15850 WP 001017033.1     IPTHLARRLNVNDFATPVSSIDAYNDKGVGVITIQSSGSYEYMAYQAENKL.TISLKRPQD.KN.VTSLYKTPNYSGNKL  264
NTDB id 1039 HON27 RS01460 WP 031993779.1    IPTHLARRLNVNDFATPVSSIDAYNDKGVGVITIQSSGSYEYMAYQAENKL.TISLKRPQD.KN.VTSLYKTPNYSGNKL  264
consensus                                    *!  ! *** * !!**!!  *   **     **! *** **** ** **** *****                  **!***
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logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     SLDFQDVEIRTILQILAKESGMNIVASDSVSGKMTLSLKDVPWDQALDLVMQARNLDMRQQGNIVNIAPRDELLAKDKAF   382
NTDB id 1257 GC085 RS04855 WP 163621000.1     SLNFQNISIRAVLQLLADFTGINMVVSDKVQGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQ   353
NTDB id 1284 ACE17W RS12370 WP 010946666.1    SLNFQNISIRAVLQLLADFTGINMVVSDKVQGDITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQ   353
NTDB id 1193 PAKAF RS26665 WP 003161249.1     SLNFQDIDVRSVLQLIADFTDLNLVASDTVQGNITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAARERQE   364
NTDB id 390242 FSC11 RS01440 WP 163164722.1   SLDFQDIEVRRVLQLLADFTDINMVAADSVQGNITLRLKEVPWDQALDIVLKTKNLDKRRNGNVIWIAPVSELIKAEEEE   359
NTDB id 1009 ACIAD RS15175 WP 004923730.1     SLDFQDIEVRRVLQLLADFTNINMVTADSVQGNITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDE   345
NTDB id 1052 ABD1 RS15850 WP 001017033.1      SLDFQDIEVRRVLQLLADFTGINMVAADSVQGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEE   344
NTDB id 1039 HON27 RS01460 WP 031993779.1     SLDFQDIEVRRVLQLLADFTGINMVAADSVQGNITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEEEE   344
consensus                                     !!*!!****!  *!!**!*****!*!* !*!*!**!!*!***!!!!!!!*******!!*!**!!**  ***   ****  ****

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     LQAEKDIADLGALYSQNFQLKYKNVEEFRSILRLDNADTTG.........................NRNTLVSGRGSVLID   438
NTDB id 1257 GC085 RS04855 WP 163621000.1     LKSQQTIEKLEPIRSDLIQINYAKAADIAVLIKDKQ.............................NSLLSDRGKISVD   402
NTDB id 1284 ACE17W RS12370 WP 010946666.1    LKSQQTIEKLEPIRSDLIQINYAKAADIAVLIKDKQ.............................NSLLSDRGKISVD   402
NTDB id 1193 PAKAF RS26665 WP 003161249.1     LEAQKQIAELAPLRRELIQVNYAKAADIAKLFQSVTSDGGQ........................EGKEGGRGSITVD   418
NTDB id 390242 FSC11 RS01440 WP 163164722.1   AKALAQSVKLAPIQTEYMQLSYAKAADIEKLITQNKGASSTGS..............NSGSTSGDDKESLLSSRGSISID   425
NTDB id 1009 ACIAD RS15175 WP 004923730.1     AKAIAQSTKLAPLQTEYILLKYAKAADIEKLITQGRNSGTSNSN.........TNGSATVEPLGDSVGTLLSPRGTISLD   416
NTDB id 1052 ABD1 RS15850 WP 001017033.1      AKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQD   424
NTDB id 1039 HON27 RS01460 WP 031993779.1     AKAVAQSVKLAPLQTEYIQLKYAKAGDIMGLITQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNNVGSLLSPRGTITQD   424
consensus                                      **   *  *!***  **  *** !******   **                                  ****  !!****!

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     PATNTLIVTDTRSVIEKFRKLIDELDVPAQQVMIEARIVEAADGFSRDLGVKFGATGRKKLKNETSAFG......WGVNS   512
NTDB id 1257 GC085 RS04855 WP 163621000.1     ARTNTIWIQDTGTKIEEVRELIKQLDIPVKQVLIEARIVEVTKDFSQDIGIRWGVSRPTHLS..GTLEGANEL..ARG..   476
NTDB id 1284 ACE17W RS12370 WP 010946666.1    ARTNTIWIQDTGTKIEEVRELIKQLDIPVKQVLIEARIVEVTKDFSQDIGIRWGVSRPTHLS..GTLEGANEL..ARG..   476
NTDB id 1193 PAKAF RS26665 WP 003161249.1     DRTNSIIAYQPQERLDELRRIVSQLDIPVRQVMIEARIVEANVGYDKSLGVRWGGAYHKG..............NWSGYG   484
NTDB id 390242 FSC11 RS01440 WP 163164722.1   TRTNTLIINDTQPFIDKIRNMVDLLDVQVKQVMVEARIVTAETNFSRDLGIRWGLQRN....NPSLSAGPNGSNVWGG..   499
NTDB id 1009 ACIAD RS15175 WP 004923730.1     PRTNTLIINDTSQKIDQIRKMIDLLDIPVKQVMIEARIVRATTSFSKEMGVKWGILSQGINQNSNLLVGGSETTLWNLRN   496
NTDB id 1052 ABD1 RS15850 WP 001017033.1      DRTNTLIINDTAQSIDQIRKMIDLLDVQVKQVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLRE   504
NTDB id 1039 HON27 RS01460 WP 031993779.1     DRTNTLIINDTAQSIDQIRKMIDLLDVQVKQVMVEARIVRASTSFTKELGVKWGILSQGITNNNNLLVGGSETTLWNLRE   504
consensus                                      *!!*******    ** *!**** !!****!!**!!!!! **  *****!***!*       *   * ** *   *

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     ...G........F.....GGGDKWE.....AQTKINLPVAA........AANSISLVR.AISSGALNLELSASESLSKTK   562
NTDB id 1257 GC085 RS04855 WP 163621000.1     .......................TAPANVVPLERRLNLDLAAVPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAE   533
NTDB id 1284 ACE17W RS12370 WP 010946666.1    .......................TAPANVVPLERRLNLDLAAAPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAE   533
NTDB id 1193 PAKAF RS26665 WP 003161249.1     KDGNIGIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDL.....GAKDA.TSGIGIGFI.TDNIILDLQLSAMEKTGNGE   557
NTDB id 390242 FSC11 RS01440 WP 163164722.1   ......................DY.......SPKLDLSV.....DLGTPTAGIFSFGILKISDYMLDLQLTALQSDGMGE   545
NTDB id 1009 ACIAD RS15175 WP 004923730.1     PDSN...................GTYT...IERPDNLNVDL.....GVTTTGASSIAFGLISLSDFMLDLELSALQADGYGE   551
NTDB id 1052 ABD1 RS15850 WP 001017033.1      PKKD............ETTGGYKYT...IERPDNLNVDL.....GVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGE   563
NTDB id 1039 HON27 RS01460 WP 031993779.1     PKKD............ETTGGYKYT...IERPDNLNVDL.....GVSNP.AGSIAFGLISMSDFMLDLELSALQADGYGE   563
consensus                                                          *    *      *****          * * *** * * **   *!*!*!*!*   ** **
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logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     TLANPRVLTQNRKEAKIESGYEIPFTVTTASGGGNSTNTELKKAVLGLTVTPNITPDGQIIMTVKINKDSPAQCASGNNT   642
NTDB id 1257 GC085 RS04855 WP 163621000.1     LISSPRLITTNQQAAVIESGEEIPYQEATSS...GATAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTF.LG   608
NTDB id 1284 ACE17W RS12370 WP 010946666.1    LISSPRLITTNQQAAVIESGEEIPYQEATSS...GATAVAFKKAVLSLKVTPQITPDGKILMDLQINQDTPSP.QTF.LG   608
NTDB id 1193 PAKAF RS26665 WP 003161249.1     IVSQPKVVTSDKETAKILKGSEVPYQEASSS...GATSTSFKEAALSLEVTPQITPDNRIIVEVKVTKDAPDYQNML.NG   633
NTDB id 390242 FSC11 RS01440 WP 163164722.1  VLSAPKILTGDKQKAYILRGTEIPYQSYSAE...GGTTTSFKEANLKLEVTPSITPDGKVQMELTIEKDSIGE.LTS.DG   620
NTDB id 1009 ACIAD RS15175 WP 004923730.1     VISTPKVMSADKQKAKVATGVEVPYQSTTNSAAGSTATTSFKEALLSLEVTPNITPDGKILMELNIANDSINS.YAQ.NG   629
NTDB id 1052 ABD1 RS15850 WP 001017033.1      VISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAP.NG   641
NTDB id 1039 HON27 RS01460 WP 031993779.1     VISTPKVMTADKQTAKVATGQQVPYQSTTNSAAGSTATTSFKDALLSLNVTPSITPDGKIQMKLDISKDSVAG.AAP.NG   641
consensus                                     ****!****  ***  !**  *!  **!**   *  *      *****!*!*!*!  !!!*!!!!*******  *  *!*        **

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     ILCISTKSLNTQAMVENGGTLIVGGIYEENNGNTLTKVPLLGDLPVIGNLFKTRGKKTDRRELLIFITPRIIDTAGNSLR   722
NTDB id 1257 GC085 RS04855 WP 163621000.1     VPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITT   688
NTDB id 1284 ACE17W RS12370 WP 010946666.1    VPAIITKEIQTNVLVNNGQTIVLGGIYKQDKNKVINRIPFFGELPVVGILFSNRQITLKNEELLIFITPRIITNALSITT   688
NTDB id 1193 PAKAF RS26665 WP 003161249.1     VPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGELPYLGRLFRRDTVTDRKNELLVFLTPRIMNNQAIAIG   713
NTDB id 390242 FSC11 RS01440 WP 163164722.1  PA.INTNELQTNVLVNDGETVVLGGIFDDFKSNQYQKVPFLGDLPVIGNLFKNNSKVSEQAELLIFVTPRIVNDSVSRNH   699
NTDB id 1009 ACIAD RS15175 WP 004923730.1     EAILNKNTINTNVLVNNGETVVLGGVFEQTTNNAVTKVPFLGDLPYVGRLFKKTAKSEAKNELLIFVTPRIVNDTIVGNH   709
NTDB id 1052 ABD1 RS15850 WP 001017033.1      ELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH   721
NTDB id 1039 HON27 RS01460 WP 031993779.1     ELILNKNNINTNVLVDNGETVILGGVFEQTTMNSQTKVPFFGDIPVVGRLFRKDVKSDDKQELLIFVTPRIVNDTLARNH   721
consensus                                        **  *  ******!**!*!***!!****    *  *  **!*  !**!**!  !!*    **   *  !!!*!*!!!!**   *

logo
NTDB id 1115 OK783 RS00485 WP 003698035.1     Y.........   723
NTDB id 1257 GC085 RS04855 WP 163621000.1     IEGREKDVYK   698
NTDB id 1284 ACE17W RS12370 WP 010946666.1    IEGREKDVYK   698
NTDB id 1193 PAKAF RS26665 WP 003161249.1     R.........   714
NTDB id 390242 FSC11 RS01440 WP 163164722.1  ..........   699
NTDB id 1009 ACIAD RS15175 WP 004923730.1     ..........   709
NTDB id 1052 ABD1 RS15850 WP 001017033.1      ..........   721
NTDB id 1039 HON27 RS01460 WP 031993779.1     ..........   721
consensus
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X non conserved

X similar

X $\geq$ 50% conserved