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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1381 A4U84 RS02010 WP 021113424.1    ..........................................................................................  0
NTDB id 1347 HI 0435 AAC22094.1              ..........................................................................................  0
NTDB id 1373 NTHI RS02645 WP 011272046.1     ..........................................................................................  0
NTDB id 33649 UMNK88 RS20660 WP 000815986.1  ..........................................................................................  0
NTDB id 1433 BW25113 RS17570 WP 000815987.1  ..........................................................................................  0
NTDB id 1193 PA5040 NP 253727.1              MNSGLSRLGIALLAAMFAPALLAADLEKLDVAALPGDRVELKLQFDEPVAAPRGYTIEQPARIALDLPGVQNKLGTKNRE  80
NTDB id 1186 GTF74 RS01320 WP 000788426.1    ..........................................................................................  0
NTDB id 1175 A1552VC RS12105 WP 000788426.1  ..........................................................................................  0
NTDB id 1408 DSB67 RS13980 WP 010643500.1    ..........................................................................................  0
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1381 A4U84 RS02010 WP 021113424.1    ..........................................................................  0
NTDB id 1347 HI 0435 AAC22094.1              ..........................................................................  0
NTDB id 1373 NTHI RS02645 WP 011272046.1     ..........................................................................  0
NTDB id 33649 UMNK88 RS20660 WP 000815986.1  ..........................................................................  0
NTDB id 1433 BW25113 RS17570 WP 000815987.1  ..........................................................................  0
NTDB id 1193 PA5040 NP 253727.1              LSVGNTRSVTVVEAKDRTRLIINLTALSSYTTRVEGNNLFVVVGNSPAGASVASAAPVKASPAPASYAQPIKPKPYVPAG  160
NTDB id 1186 GTF74 RS01320 WP 000788426.1    ................MKNGLKT..YVAQTW......LTLWVGLALCAS..................S....MVFSAESATA  36
NTDB id 1175 A1552VC RS12105 WP 000788426.1  ................MKNGLKT..YVAQTW......LTLWVGLALCAS..................S....MVFSAESATA  36
NTDB id 1408 DSB67 RS13980 WP 010643500.1    .............MKMRHGLTLTPRKLTGL......FSLWFSLLLAP.......................FVAAEEVQS  37
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1381 A4U84 RS02010 WP 021113424.1    ..........................................................................  0
NTDB id 1347 HI 0435 AAC22094.1              ..........................................................................  0
NTDB id 1373 NTHI RS02645 WP 011272046.1     ..........................................................................  0
NTDB id 33649 UMNK88 RS20660 WP 000815986.1  ..........................................................................  0
NTDB id 1433 BW25113 RS17570 WP 000815987.1  ..........................................................................  0
NTDB id 1193 PA5040 NP 253727.1              RAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASAQSDRTSITI  240
NTDB id 1186 GTF74 RS01320 WP 000788426.1    NQLENIDFRVNKEKAAVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVV  116
NTDB id 1175 A1552VC RS12105 WP 000788426.1  NQLENIDFRVNKEKAAVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVV  116
NTDB id 1408 DSB67 RS13980 WP 010643500.1    NSLKSIDFRTNKDKDAVIVVELVSPAAIVDIKRVQEGLSIDLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTTRLVA  117
consensus
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1381 A4U84 RS02010 WP 021113424.1    .............MRYLFLLFFAT...........FPVLANQQISLSIRNAPTAEIISYLAEETGKNITISDEIKDTKN  55
NTDB id 1347 HI 0435 AAC22094.1              ......MKKYFLKCGYFLVCFCLPLI.......VFANPKTDNERFFIRLSQAPLAQTLEQLAFQQDVNLVIGDILENKIS  67
NTDB id 1373 NTHI RS02645 WP 011272046.1     ......MKKYFLKCGYFLVCFCLPLI.......VFANPKTDNECFFIRLSQAPLAQTLEQLAFQQDVNLVMGERLEGNIS  67
NTDB id 33649 UMNK88 RS20660 WP 000815986.1  ............MKQWIAALLL.ML........IPGVQAAKPQKVTLMVDDVPVAQVLQALAEQEKLNLVVSPDVSGTVS  59
NTDB id 1433 BW25113 RS17570 WP 000815987.1  ............MKQWIAALLL.ML........IPGVQAAKPQKVTLMVDDVPVAQVLQALAEQEKLNLVVSPDVSGTVS  59
NTDB id 1193 PA5040 NP 253727.1              EPSGLYDYLVYQTDNRLTVSIK.PMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQGNIT  319
NTDB id 1186 GTF74 RS01320 WP 000788426.1    TVDGEFQHDYTLKGKYLEVVIS.KLK.ADEKPKPKSVLEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVGNLT  194
NTDB id 1175 A1552VC RS12105 WP 000788426.1  TVDGEFQHDYTLKGKYLEVVIS.KLK.ADEKPKPKSVLEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVGNLT  194
NTDB id 1408 DSB67 RS13980 WP 010643500.1    YIDEDYSHDYRLTGRYLEVKVG.KLK.ANEKAPDKSILDKEGKLISINFQDIPVRNVLQLIADYNQFNLVVSDSVEGNLT  195
consensus                                              * *   ** ***   *           *   *   *** * ********* *!* * *!***** * ****
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logo
NTDB id 1381 A4U84 RS02010 WP 021113424.1   FRVEKSHFDEILNSLIKTHQLNLKKENGIYYIHQAQEHKQH......TTAQLVNALPKLITKTIKLHYSKASEVIESLTK   129
NTDB id 1347 HI 0435 AAC22094.1             LKLNNIDMPRLLQIIAKSKHLTLNKDDGIYYLNGSQSGKGQ......VAGNLTTNEPHLVSHTVKLHFAKASELMKSLTT   141
NTDB id 1373 NTHI RS02645 WP 011272046.1    LKLNNIDMPRLLKIIAKSKHLTLNKDDGVYYLNGSQSGKGQ......VAGNLTTNEPHLVSHTVKLHFAKASELMKSLTT   141
NTDB id 33649 UMNK88 RS20660 WP 000815986.1 LHLTDVPWKQALQTVVKSAGLITRQEGNILSVHSIAWQNNNIARQEAEQAR.AQANLPLENRSITLQYADAGELAK....   134
NTDB id 1433 BW25113 RS17570 WP 000815987.1 LHLTDVPWKQALQTVVKSAGLITRQEGNILSVHSIAWQNNNIARQEAEQAR.AQANLPLENRSITLQYADAGELAK....   134
NTDB id 1193 PA5040 NP 253727.1             LRLQNVPWDQALDLVLKTKGLDKRKLGNVLLVAPADEIAAR.ERQELEAQKQIAELAPLRRELIQVNYAKAADIAKLFQS   398
NTDB id 1186 GTF74 RS01320 WP 000788426.1   LRLDGVPWQQVLDIILQVKGLDKRVDGNVILIAPKEELDLR.EKQALEKARLAEELGDLKSEIIKINFAKASDIAAMIGG   273
NTDB id 1175 A1552VC RS12105 WP 000788426.1 LRLDGVPWQQVLDIILQVKGLDKRVDGNVILIAPKEELDLR.EKQALEKARLAEELGDLKSEIIKINFAKASDIAAMIGG   273
NTDB id 1408 DSB67 RS13980 WP 010643500.1   LRLDGVPWQQVLDIILQVKGLDKRVDGNVILVAPKDELDLR.EKQQLEKQKLEKEIGELSSEIIKVNFAKASDIAEMING   274
consensus                                   ***  *** **! *******!  * ***** *    *      **  * ***   *  ! * ********!***** *

logo
NTDB id 1381 A4U84 RS02010 WP 021113424.1   .....GQGNLLSESGYLHFDDRSNSIIVKDSAASVKNFTQLIESLDKPTEQIAIEARIVTISSEHLQQLGVRWGLFSPNE   204
NTDB id 1347 HI 0435 AAC22094.1             .....GSGSLLSPAGSITFDDRSNLLVIQDEPRSVQNIKKLIAEMDKPIEQIAIEARIVTITDESLKELGVRWGIFNPTE   216
NTDB id 1373 NTHI RS02645 WP 011272046.1    .....GSGSLLSSAGSITFDDRSNLLVIQDEPRFVQNIKKLIAEMDKPIEQIAIEARIVTITDESLKELGVRWGIFNPTE   216
NTDB id 33649 UMNK88 RS20660 WP 000815986.1 .....AGEKLLSAKGSMTVDKRTNRLLLRDNKTALSALEQWVAQMDLPVGQVELSAHIVTINEKSLRELGVKWTLADAQH   209
NTDB id 1433 BW25113 RS17570 WP 000815987.1 .....AGEKLLSAKGSMTVDKRTNRLLLRDNKTALSALEQWVAQMDLPVGQVELSAHIVTINEKSLRELGVKWTLADAQH   209
NTDB id 1193 PA5040 NP 253727.1             VTSDGGQEGKEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQVMIEARIVEANVGYDKSLGVRWGGAYHKG   478
NTDB id 1186 GTF74 RS01320 WP 000788426.1   ....EGNVNMLSERGSISIDERTNSLLIRELPDNIAVIREIIESLDIPVKQVQIEARIVTVKEGNLEELGVRWGVMSTNG   349
NTDB id 1175 A1552VC RS12105 WP 000788426.1 ....EGNVNMLSERGSISIDERTNSLLIRELPDNIAVIREIIESLDIPVKQVQIEARIVTVKEGNLEELGVRWGVMSTNG   349
NTDB id 1408 DSB67 RS13980 WP 010643500.1   ....EGNISMLSDRGSMTIDERTNSLLIRELPENIEVIREIIESLDIPVKQVQIEARIVTINEGNMDELGVRWGFTSING   350
consensus                                     **  *** *!****!*!*!****** *  *  ** **  *!*!* !* **!*!!** *  ***!!!*!**   *

logo
NTDB id 1381 A4U84 RS02010 WP 021113424.1   NHYKLAGNL.........................EGNGLTT..NNLNVNF..PVNPSASVALQIAAI.NSRVLDLELT   252
NTDB id 1347 HI 0435 AAC22094.1             NARRVAGSL.........................TGNSFENIADNLNVNFATTTTPAGSIALQVAKI.NGRLLDLELS   268
NTDB id 1373 NTHI RS02645 WP 011272046.1    NARRVAGSL.........................TGNSFENIADNLNVNFATTTTPAGSIALQVAKI.NGRLLDLELS   268
NTDB id 33649 UMNK88 RS20660 WP 000815986.1 AGGV.GQVT.........................TLGSDLS...........VATATTHVGFNIGRI.NGRLLDLELS   249
NTDB id 1433 BW25113 RS17570 WP 000815987.1 AGGV.GQVT.........................TLGSDLS...........VATATTHVGFNIGRI.NGRLLDLELS   249
NTDB id 1193 PA5040 NP 253727.1             NWSG.YGKDG....NIGIKDEDGMNCGPIAGSCTFPTTGTSKSPSPFVDLG.....AKDATSGIGIGFITDNIILDLQLS   548
NTDB id 1186 GTF74 RS01320 WP 000788426.1   SHSV.GGSIESNLWQKGLLAD...................DEFPVDEFLNVNLASTSANASSIAFQVAKLGSGTLLDLELS   410
NTDB id 1175 A1552VC RS12105 WP 000788426.1 SHSV.GGSIESNLWQKGLLAD...................DEFPVDEFLNVNLASTSANASSIAFQVAKLGSGTLLDLELS   410
NTDB id 1408 DSB67 RS13980 WP 010643500.1   SHTV.GGSIENNLATIGLYDGGGE..........GDDGGSSVGIDDFLNVNLAATSPNATSIAFQVAKLGSDTLLDLELS   419
consensus                                     * ****                          *  *   * * **** * **  *********** ****!!!*!*

logo
NTDB id 1381 A4U84 RS02010 WP 021113424.1   ALESENNIEIIASPRLLTTDKKTASIKQGTEIPYAMYSKKEEITDIEFREAVLGLEVTPHISKQNQILLDLAISQNSPNN   332
NTDB id 1347 HI 0435 AAC22094.1             ALERENNVEIIASPRLLTTNKKSASIKQGTEIPYIVSNTRNDTQSVEFREAVLGLEVTPHISKDNNILLDLLVSQNSPGS   348
NTDB id 1373 NTHI RS02645 WP 011272046.1    ALERENNVEIIASPRLLTTNKKSASIKQGTEIPYIVSNTRNDTQSVEFREAVLGLEVTPHISKDNNILLDLLVSQNSPGS   348
NTDB id 33649 UMNK88 RS20660 WP 000815986.1 ALEQKQQLDIIASPRLLASHLQPASIKQGSEIPYQVSSGESGATSVEFKEAVLGMEVTPTVLQKGRIRLKLHISQNVPGQ   329
NTDB id 1433 BW25113 RS17570 WP 000815987.1 ALEQKQQLDIIASPRLLASHLQPASIKQGSEIPYQVSSGESGATSVEFKEAVLGMEVTPTVLQKGRIRLKLHISQNVPGQ   329
NTDB id 1193 PA5040 NP 253727.1             AMEKTGNGEIVSQPKVVTSDKETAKILKGSEVPYQEAS.SSGATSTSFKEAALSLEVTPQITPDNRIIVEVKVTKDAPDY   627
NTDB id 1186 GTF74 RS01320 WP 000788426.1   ALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESS.SSGASTVAFKKAVLSLKVTPQITPDNRLVLDLSVTQDRRGE   489
NTDB id 1175 A1552VC RS12105 WP 000788426.1 ALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESS.SSGASTVAFKKAVLSLKVTPQITPDNRLVLDLSVTQDRRGE   489
NTDB id 1408 DSB67 RS13980 WP 010643500.1   ALQQESKAEIISSPRLITTNKKPAYIEQGTEIPYLESS.SSGATSVTFKKAVLSLKVTPQITPDNRLVLDLSVTQDRPGQ   498
consensus                                   !********!***!******* *!*!**!*!*!!****  *******!**!*!***!!! ** ******** **** **
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logo
                                                  QIN...NTMVTIDKQEIKTQVLAKHGETIVLGGIFQHLIAKGEDKVPLLGSIPVIKRLFSQSQDKISKRELVIFVTPYIV   409
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1347 HI 0435 AAC22094.1                   RVAYGQNEVVSIDKQEINTQVFAKDGETIVLGGVFHDTITKSEDKVPLLGDIPVIKRLFSKESERHQKRELVIFVTPHIL   428
NTDB id 1373 NTHI RS02645 WP 011272046.1          RVAYGQNEVVSIDKQEINTQVFAKDGETIVLGGVFHDTITKSEDKVPLLGDIPVIKRLFSKESERHQKRELVIFVTPHIL   428
NTDB id 33649 UMNK88 RS20660 WP 000815986.1       VLQQADGEVLAIDKQEIETQVEVKSGETLALGGIFTRKNKSGQDSVPLLGDIPWFGQLFRHDGKEDERRELVVFITPRLV   409
NTDB id 1433 BW25113 RS17570 WP 000815987.1       VLQQADGEVLAIDKQEIETQVEVKSGETLALGGIFTRKNKSGQDSVPLLGDIPWFGQLFRHDGKEDERRELVVFITPRLV   409
NTDB id 1193 PA5040 NP 253727.1                   QNM..LNGVPPINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPFLGELPYLGRLFRRDTVTDRKNELLVFLTPRIM   705
NTDB id 1186 GTF74 RS01320 WP 000788426.1         TVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSINNSVDKVPLLGDLPVLGALFRRTYEQMGKSELLIFVTPKVV   569
NTDB id 1175 A1552VC RS12105 WP 000788426.1       TVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSINNSVDKVPLLGDLPVLGALFRRTYEQMGKSELLIFVTPKVV   569
NTDB id 1408 DSB67 RS13980 WP 010643500.1         VVKTGTGEAVAIDTQRIGTQVLVNNGETVVLGGIFQHSITNSVDKVPLLGDLPLLGALFRRSYENVGKSELLIFVTPKVV   578
consensus                                          *   * *****!***** ****** !!!***!!*!   **   * **!!*!!**!*** !!*** *    **!!**!*!!***
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logo
                                                  KSEKIG.AEKQK.....   420
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1347 HI 0435 AAC22094.1                   KAGETLEALKQKSEGKK   445
NTDB id 1373 NTHI RS02645 WP 011272046.1          KAGETLEALKQKSAGKK   445
NTDB id 33649 UMNK88 RS20660 WP 000815986.1       SNE..............   412
NTDB id 1433 BW25113 RS17570 WP 000815987.1       SSE..............   412
NTDB id 1193 PA5040 NP 253727.1                   NNQAIAIGR........   714
NTDB id 1186 GTF74 RS01320 WP 000788426.1         IQ...............   571
NTDB id 1175 A1552VC RS12105 WP 000788426.1       IQ...............   571
NTDB id 1408 DSB67 RS13980 WP 010643500.1         IQ...............   580
consensus                                          *
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X non conserved
X similar
X ≥ 50% conserved