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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1186 GTF74 RS01320 WP 000788426.1    ..MKNGLKT..YVAQTWLTLWVGLALCASSMVFSAESATANQLENIDFRVNKEKAAVLIVELASPSAVVDVQKVQEGLSI    76
NTDB id 1175 A1552VC RS12105 WP 000788426.1  ..MKNGLKT..YVAQTWLTLWVGLALCASSMVFSAESATANQLENIDFRVNKEKAAVLIVELASPSAVVDVQKVQEGLSI    76
NTDB id 1408 DSB67 RS13980 WP 010643500.1    MKMRHGLTLTPRKLTGLFSLWFSLLLAP...FVAAEEVQSNSLKSIDFRTNKDKDAVIVVELVSPAAIVDIKRVQEGLSI    77
NTDB id 1347 HI 0435 AAC22094.1              ..........................................................................    0
NTDB id 1373 NTHI RS02645 WP 011272046.1     ..........................................................................    0
NTDB id 199116 BG562 RS09005 WP 006252205.1  ..........................................................................    0
NTDB id 1381 A4U84 RS02010 WP 021113424.1    ..........................................................................    0
consensus

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1186 GTF74 RS01320 WP 000788426.1    ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKY.LEVVISKLKADEKPKPKSVLEKE   155
NTDB id 1175 A1552VC RS12105 WP 000788426.1  ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKY.LEVVISKLKADEKPKPKSVLEKE   155
NTDB id 1408 DSB67 RS13980 WP 010643500.1    DLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTTRLVAYIDEDYSHDYRLTGRY.LEVKVGKLKANEKAPDKSILDKE   156
NTDB id 1347 HI 0435 AAC22094.1              ..............................................MKKYFLKCGYFLVCFCLPLIVFAN......PKTD    28
NTDB id 1373 NTHI RS02645 WP 011272046.1     ..............................................MKKYFLKCGYFLVCFCLPLIVFAN......PKTD    28
NTDB id 199116 BG562 RS09005 WP 006252205.1  ..............................................MWR......IFIYFLCGF............SLAY    16
NTDB id 1381 A4U84 RS02010 WP 021113424.1    ..............................................MRY......LFLLFFATF............PVLA    16
consensus                                                                                  *  * **  ***      *              *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1186 GTF74 RS01320 WP 000788426.1    GKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVGNLTLRLDGVPWQQVLDIILQVKGLDKRVDGNVILIAPKEELDL.   234
NTDB id 1175 A1552VC RS12105 WP 000788426.1  GKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVGNLTLRLDGVPWQQVLDIILQVKGLDKRVDGNVILIAPKEELDL.   234
NTDB id 1408 DSB67 RS13980 WP 010643500.1    GKLISINFQDIPVRNVLQLIADYNQFNLVVSDSVEGNLTLRLDGVPWQQVLDIILQVKGLDKRVDGNVILVAPKDELDL.   235
NTDB id 1347 HI 0435 AAC22094.1              NERFFIRLSQAPLAQTLEQLAFQQDVNLVIGDILENKISLKLNNIDMPRLLQIIAKSKHLTLNKDDGIYYLNGSQSGKGQ   108
NTDB id 1373 NTHI RS02645 WP 011272046.1     NECFFIRLSQAPLAQTLEQLAFQQDVNLVMGERLEGNISLKLNNIDMPRLLKIIAKSKHLTLNKDDGVYYLNGSQSGKGQ   108
NTDB id 199116 BG562 RS09005 WP 006252205.1  ANTISIVLKNAPTSLIFTYLAEETGKNMVLDDNIETKSTLRLENKSVDEIFKTLGKVNKLSLTQEDDIVYIHKKEEKAAD    96
NTDB id 1381 A4U84 RS02010 WP 021113424.1    NQQISLSIRNAPTAEIISYLAEETGKNITISDEIKDTKNFRVEKSHFDEILNSLIKTHQLNLKKENGIYYIHQAQEHKQH    96
consensus                                    *  *** * **!* ***  *!* ** !***** ********** * *  ** ****** ! ** *  ****  ***

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1186 GTF74 RS01320 WP 000788426.1    ......REKQALEKARLAEELGDLKSEIIKINFAKASDIAAMIGGEGNVNMLSERGSISIDERTNSLLIRELPDNIAVIR   308
NTDB id 1175 A1552VC RS12105 WP 000788426.1  ......REKQALEKARLAEELGDLKSEIIKINFAKASDIAAMIGGEGNVNMLSERGSISIDERTNSLLIRELPDNIAVIR   308
NTDB id 1408 DSB67 RS13980 WP 010643500.1    ......REKQQLEKQKLEKEIGELSSEIIKVNFAKASDIAEMINGEGNISMLSDRGSMTIDERTNSLLIRELPENIEVIR   309
NTDB id 1347 HI 0435 AAC22094.1              VA............GNLTTNEPHLVSHTVKLHFAKASELMKSLT.TGSGSLLSPAGSITFDDRSNLLVIQDEPRSVQNIK   175
NTDB id 1373 NTHI RS02645 WP 011272046.1     VA............GNLTTNEPHLVSHTVKLHFAKASELMKSLT.TGSGSLLSSAGSITFDDRSNLLVIQDEPRFVQNIK   175
NTDB id 199116 BG562 RS09005 WP 006252205.1  LTPLPIMNLQNNGQNTPLVTAPKLITKTLKLHYAKASEVIESLT.KGSGTFLSENGYIHFDERSNSLIVKDSAKSLKNIE   175
NTDB id 1381 A4U84 RS02010 WP 021113424.1    TT............AQLVNALPKLITKTIKLHYSKASEVIESLT.KGQGNLLSESGYLHFDDRSNSIIVKDSAASVKNFT   163
consensus                                             *    * *   ** !** **!***!!!*** ***  !****!!* !****!*!*!****** *  * ***
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logo
NTDB id 1186 GTF74 RS01320 WP 000788426.1     EIIESLDIPVKQVQIEARIVTVKEGNLEELGVRWGVMSTNGSH.SVGGSIESNLWQKGLLAD........DEFPVDEFLN   379
NTDB id 1175 A1552VC RS12105 WP 000788426.1   EIIESLDIPVKQVQIEARIVTVKEGNLEELGVRWGVMSTNGSH.SVGGSIESNLWQKGLLAD........DEFPVDEFLN   379
NTDB id 1408 DSB67 RS13980 WP 010643500.1     EIIESLDIPVKQVQIEARIVTINEGNMDELGVRWGFTSINGSH.TVGGSIENNLATIGLYDGGGEGDDGGSSVGIDDFLN   388
NTDB id 1347 HI 0435 AAC22094.1               KLIAEMDKPIEQIAIEARIVTITDESLKELGVRWGIFNPTENARRVAGSLTGN..................SFENIADNLN   238
NTDB id 1373 NTHI RS02645 WP 011272046.1      KLIAEMDKPIEQIAIEARIVTITDESLKELGVRWGIFNPTENARRVAGSLTGN..................SFENIADNLN   238
NTDB id 1199116 BG562 RS09005 WP 006252205.1 NLVKQLDQPTEQIAIEARIVTISSEHLQELGVRWGIFSRGAGHYKFGGRLEGN..................GLNDVTNNLN   238
NTDB id 1381 A4U84 RS02010 WP 021113424.1    QLIESLDKPTEQIAIEARIVTISSEHLQQLGVRWGLFSPNENHYKLAGNLEGN..................GLT..TNNLN   224
consensus                                     *****! !**!**!!!!!!!**** * *!!!!!!*** ** * ***!****!                    * **!!

logo
NTDB id 1186 GTF74 RS01320 WP 000788426.1     VNLASTSANASSIAFQVAKLGSGTLLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSS.SGASTVAFK   458
NTDB id 1175 A1552VC RS12105 WP 000788426.1   VNLASTSANASSIAFQVAKLGSGTLLDLELSALQNESKAEIISSPRLITTNKQPAYIEQGTEIPYLESSS.SGASTVAFK   458
NTDB id 1408 DSB67 RS13980 WP 010643500.1     VNLAATSPNATSIAFQVAKLGSDTLLDLELSALQQESKAEIISSPRLITTNKKPAYIEQGTEIPYLESSS.SGATSVTFK   467
NTDB id 1347 HI 0435 AAC22094.1               VNFATTTTPAGSIALQVAKING.RLLDLELSALERENNVEIIASPRLLTTNKKSASIKQGTEIPYIVSNTRNDTQSVEFR   317
NTDB id 1373 NTHI RS02645 WP 011272046.1      VNFATTTTPAGSIALQVAKING.RLLDLELSALERENNVEIIASPRLLTTNKKSASIKQGTEIPYIVSNTRNDTQSVEFR   317
NTDB id 1199116 BG562 RS09005 WP 006252205.1 VNFPI..TGGASAVLQVASINS.RVLDLELSALEQENSVEIIASPRLLTTNKKPASIKQGTEIPYVMYNTKSEATDVEFK   315
NTDB id 1381 A4U84 RS02010 WP 021113424.1    VNFPV..NPSASVALQIAAINS.RVLDLELTALESENNIEIIASPRLLTTDKKTASIKQGTEIPYAMYSKKEEITDIEFR   301
consensus                                     !!*****  **!***!*!**** **!!!!!*!!**!* *!!!*!!!!*!!*!**!*!*!!!!!!!*****************!*

logo
NTDB id 1186 GTF74 RS01320 WP 000788426.1     KAVLSLKVTPQITPDNRLVLDLSVTQDRRGETVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSINNSVDKVPLL   538
NTDB id 1175 A1552VC RS12105 WP 000788426.1   KAVLSLKVTPQITPDNRLVLDLSVTQDRRGETVKTGTGEAVSIDTQRIGTQVLVNNGETVVLGGIFQHSINNSVDKVPLL   538
NTDB id 1408 DSB67 RS13980 WP 010643500.1     KAVLSLKVTPQITPDNRLVLDLSVTQDRPGQVVKTGTGEAVAIDTQRIGTQVLVNNGETVVLGGIFQHSITNSVDKVPLL   547
NTDB id 1347 HI 0435 AAC22094.1               EAVLGLEVTPHISKDNNILLDLLVSQNSPGSRVAYGQNEVVSIDKQEINTQVFAKDGETIVLGGVFHDTITKSEDKVPLL   397
NTDB id 1373 NTHI RS02645 WP 011272046.1      EAVLGLEVTPHISKDNNILLDLLVSQNSPGSRVAYGQNEVVSIDKQEINTQVFAKDGETIVLGGVFHDTITKSEDKVPLL   397
NTDB id 1199116 BG562 RS09005 WP 006252205.1 EAVLGLEVVPHLSTQNQILLDLIVTQNSPNSQS..GSSGLITIDKQELNTQVFAKHGETIVLGGIFQHLTQKGEDKVPIL   393
NTDB id 1381 A4U84 RS02010 WP 021113424.1    EAVLGLEVTPHISKQNQILLDLAISQNSPNNQI..N.NTMVTIDKQEIKTQVLAKHGETIVLGGIFQHLIAKGEDKVPLL   378
consensus                                     *!!!*!*!*!*** *!***!!! **!****  *  ** ****!!*!** !!!*** !!!*!!!!!*!**** ***!!!!*!

logo
NTDB id 1186 GTF74 RS01320 WP 000788426.1     GDLPVLGALFRRTYEQMGKSELLIFVTPKVVIQ...............   571
NTDB id 1175 A1552VC RS12105 WP 000788426.1   GDLPVLGALFRRTYEQMGKSELLIFVTPKVVIQ...............   571
NTDB id 1408 DSB67 RS13980 WP 010643500.1     GDLPLLGALFRRSYENVGKSELLIFVTPKVVIQ...............   580
NTDB id 1347 HI 0435 AAC22094.1               GDIPVIKRLFSKESERHQKRELVIFVTPHILKAGETLEALKQKSEGKK   445
NTDB id 1373 NTHI RS02645 WP 011272046.1      GDIPVIKRLFSKESERHQKRELVIFVTPHILKAGETLEALKQKSAGKK   445
NTDB id 1199116 BG562 RS09005 WP 006252205.1 GSIPFIKRLFSQTRDKISKRELVIFVTPYILQSNEKSSNHKK.SK...   437
NTDB id 1381 A4U84 RS02010 WP 021113424.1    GSIPVIKRLFSQSQDKISKRELVIFVTPYIVKSEKIGAEKQK......   420
consensus                                     !**!****!!***  ***  !*!!*!!!!!  **
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X non conserved

X similar

X $\geq$ 50% conserved