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logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1       MFKIILLGWIAGIAMMGRTLECIEPFTCITGILTFLIWAIYFYKKRKHQIGSGLRALVILISASFLFGIGAQYADSALEE   80
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1  MLKIILLGWVAGIALMGMHFPIITSTWWLWLIIAFAIFGFGFYWKKQVFHYPTYKALLLISATWALFCTGYHYADIQLQQ   80
NTDB id 1070 ABD1 RS13145 WP 000472713.1        MFKIILLGWIGGIALMGIDFPLIMQYEKVGEALLLLAFIFYLYKRPMFVDRPFLKAVFCLLCTTSLFMVGYHYAEKALIE   80
NTDB id 1083 HON27 RS04190 WP 168726476.1       MFKIILLGWIGGIALMGIDFPLIMQYEKVGEALLLLAFIFYLYKRPMFVDRPFLKAVFCLLCTTSLFMVGYHYAEKALIE   80
consensus                                       !*!!!!!!!**!!!*!!*****!******** ** * **** !************!*********!!**!**!***!**

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1       RLYYKIMHSDTHEVIIYVHQMGESSDKGIKQVAEVLNIHPDVVNWVFYIDQSLLG.AEKSSSLELGQYYRITAKTKPIHS  159
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1  RLIFKEQNAETFEAIVYIKKISELNENGEKQVAEVLNRHAQSVNWFLHLRKEKD.TSKVEPEFQLGHYYRVSGQIRPAHS  159
NTDB id 1070 ABD1 RS13145 WP 000472713.1        RLEQRETDTRNLDIIVYINRLSEEKDNKVQQTAQVLNLSKEPVNWLLYLKSNNQNLLKNNQNLELGHYYRISGKTRPAHS  160
NTDB id 1083 HON27 RS04190 WP 168726476.1       RLEQRETDTRNLDIIVYINRLSEEKDNKVQQTAQVLNLSKEPVNWLLYLKSNNQNLLKNNQNLELGHYYRISGKTRPAHS  160
consensus                                       !!******** ***!*!*****!**** * ! ! !!!*****!!!*******************!!*!!!******!*!!

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1       YALEGAFDVEKWFVQQNWQATAQVYRIQTLSKQEVMSAGFYLHVKQQQTWRAQFLQSVEKLRLKFRNYFIDSSLSHHALL  239
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1  YAVPGAFDLEKWFLQQNVQSGFSVRNIQPIHEDELYQLGYHHHLQQQKSHWAIFLLAVEKKRLAFRQMLQASAFQHKGLL  239
NTDB id 1070 ABD1 RS13145 WP 000472713.1        YATPGAFDQEKWFIQRNIMSGFNVRYIEPLSLDEIYRLGYQQHLKEQQSFSNSFRLNIEKLRLTFRQILNSSSLQQKGLI  240
NTDB id 1083 HON27 RS04190 WP 168726476.1       YATPGSFDQEKWFIQRNIMSGFNVRYIEPLSLDEIYRLGYQQHLKEQQSFSSSFRLNIEKLRLTFRQILNSSSLQQKGLI  240
consensus                                       !!**!*!!*!!!!*! !* ****!**! *****!****!***!** !******! ***!!*!!*!!*****!******!*

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1       LALLTGDRSLLNPELEQQFQRFGISHLLAISGPHVLIFAAMVSWIFTRLIHRFKPEIYLSIPRQKLVLLPFLMCVILYCA  319
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1  LALLTGDESLLSDAVKQQFQHLGISHLLAISGPHVLVFALILTWSLQKLIQRYCPSIYLKQPRQLLLLLPFIFSVLLYVA  319
NTDB id 1070 ABD1 RS13145 WP 000472713.1        LALLTGDESLLSDETQLQFKQLGISHLLAISGPHVLIFAIMLSWAYHQFISRYYPQIYLWKPKQVLIAVPCCLGVLIYTA  320
NTDB id 1083 HON27 RS04190 WP 168726476.1       LALLTGDESLLSDETQLQFKQLGISHLLAISGPHVFIFAIMLSWACHQFISRYYPKIYLWKPKQILMAVPCCLGVLIYTA  320
consensus                                       !!!!!!!*!!!***** !! **!!!!!!!!!!!!!**!!****!**** !*!**! !!!**!*!*!* *!****!**!*!

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1       FVGFEIPALRTLFTVMLGSILLLIRHHLSAFSLLVLSASLLLWMDPFSILSAAFWLSYGACFILIRIYQDMTQAQQFHQT  399
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1  FVGFEIPAMRTLLTVSIVSTFMCLRQSIQAFSVLVYSASLLLVLDPFSILSAAFWLSYGACFILIRIYQTIIQLPQNVNL  399
NTDB id 1070 ABD1 RS13145 WP 000472713.1        FVGFEIPALRTFLSVLIFIGFLLLKQPIKPFTLLVYSASLLLLMDPFSVLSAGFWLSYGACFILLRIYQTIAQLPEQHFL  400
NTDB id 1083 HON27 RS04190 WP 168726476.1       FVGFEIPALRTLLSTLIFIGFLLLKQPIKPFTLLVYSASLLLLMDPFSVLSAGFWLSYGACFILIRIYQTIAQLPEQHFL  400
consensus                                       !!!!!!!!*!!******* ***********!**!!*!!!!!!**!!!!*!!!!*!!!!!!!!!!!!*!!!!***!** ****

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1       RFTRGMQI.LKALVRSQWKIFVALMPLTLIIFKQISWIAPLSNLIAIPILGGIIVPLDIMAGCLWLFIPSLGNLLFYLNN  478
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1  IFKQKMIWGSHILIESQWKIFVALLPLVLIIFFQQVSWFAPLTNLIAIPLLGACIVPLDILAACVWLIIPTLGQWLFQMND  479
NTDB id 1070 ABD1 RS13145 WP 000472713.1        SLSSKMIFMSKVLIESQGKIFIALSPLTLLFFQQISWVAPLTNIIAVPIVGSVIVPLNIMAACAWFVIKPFGNMLFHFND  480
NTDB id 1083 HON27 RS04190 WP 168726476.1       SLSSKMIFMSKVLIESQGKIFIALSPLTLLFFQRISWVAPLTNIIAVPIVGSVIVPLNIIAACAWFVVKPFGNMLFHFND  480
consensus                                       * ***!******!**!! !!!*!!*!!*!**!***!!*!!!!*!*!!*!**!**!!!! !*!*!*! **** !**!!**!*
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logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1        SLLELFIGILKGLDHLFNPQLQYYAFTPLLLICLTLAIVILFLPKGVVPKFWSVLCFVPLLIPSKMIRPTQISILDVGQG   558
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1   AFLSFLMLILDVL.QSISPQLYGISFTPWMMVSLIIGIFLLFLPRGVVPKLWAAVCFLPILWGV.KAQPEALHVLDVGQG   557
NTDB id 1070 ABD1 RS13145 WP 000472713.1         MLLSILLSCLGLL.EKLSLTLQGISLTPLSLLAISCAIIILFLPKGILPKTWGILCCLPLVIMNKTSQQIQLNILDVGQG   559
NTDB id 1083 HON27 RS04190 WP 168726476.1        MLLSILLSCLGLL.EKLSLPLQGISLTPLSLLAISCAIIILFLPKGILPKTWGILCCLPLVMMNKTSQQIQLNILDVGQG   559
consensus                                        **!******!**! ******!**** !!*********!**!!!!*!**!!*!***!**!***************!!!!!!

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1        QSIFIQDQTQRILLDTGGYYDESKFSIGKQVVVPFLKSQGVHQLDRVILTHLDQDHSGGLPAVLQLIPTRMIQANEEI..   636
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1   QAILVQHSKGNLLIDTGGSFDEAKFSMGERVVIPFLRQQGIRRLEHVVLSHLDQDHSGAFTSIQNSFEIDLVQSNEKHEK   637
NTDB id 1070 ABD1 RS13145 WP 000472713.1         QAIFLQHPEQNWLIDTGGSYDEKIFSIGQNVVVPFLRQQGVRQLDHVVLSHLDQDHSGAFPLIQQEIPVKQLISNEQL.P   638
NTDB id 1083 HON27 RS04190 WP 168726476.1        QAIFLQHPQQNWLIDTGGSYDEKIFSIGQNVVVPFLRQQGVRQLDHVVLSHLDQDHSGAFPIIQQEIPVKQLISNEQL.P   638
consensus                                        !*!**!** ***!*!!!!**!!* !!*!**!!*!!!**!!***!**!*!*!!!!!!!!***********  *!!** *

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1        KDLSIPFSLCHSGQTWETSELKIQILSPKLENLQSTVFNRNEASCVMYLQLKQASDLKYFLMMGDAGWETEYQLLQQYPD   716
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1   MQFKENFSFCQQGQQWSFPNINIQVLFPRANELSYAKYQKNEYSCVLYVQFLDAQTYQNFLIMGDAGWETEYKLLQQYPD   717
NTDB id 1070 ABD1 RS13145 WP 000472713.1         NDLKQPFQYCHQGQQWHYPELDIQILWPKEKDLAFVTSNQNQYSCVVYLQFKKVGGYQNFLIMGDAGWEAEYELLKDYPN   718
NTDB id 1083 HON27 RS04190 WP 168726476.1        NDLKQPFQYCHQGQQWHYSELDIQILWPKEKDLAFVASNQNQYSCVVYLQFKKVGGYQNFLIMGDAGWEAEYELLKDYPN   718
consensus                                        ******! *!**!!*!******!!*!*!****!*** ***! *!!!*!*!*** *****!!*!!!!!!! !!*!!  !!

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1        LKVDVLILGHHGSQHSSSYDFLKRYHPKIAIASAGFENGYGHPSAEVSNRLQDLNIPLLSTTDKGAIHFKFDSGNEQTEF   796
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1   LKVDVLILGHHGSKHSSAYEFLASLKPKLTIASAGFNNRYGHPSQEVLKRLQHLNIPILNTADAGTISFMMNNHDGVLLQ   797
NTDB id 1070 ABD1 RS13145 WP 000472713.1         LKIDVLVLGHHGSKHSSAYDFLATLKPKLAIASAGFDNRYGHPSQQVIARLKALHIPLKSTVEQGTLSFVLENHKIVLHD   798
NTDB id 1083 HON27 RS04190 WP 168726476.1        LKIDVLVLGHHGSKHSSAYDFLATLKPKLAIASAGFDNRYGHPSQQVIARLKALHIPLKSTLEQGTLSFVLENHKLVLHD   798
consensus                                        !!*!!!*!!!!!!*!!!*!*!!****!!**!!!!!!*!*!!!!!* !**!! *!*!!* *!***!***!***********

logo
NTDB id 1015 ACIAD RS12005 WP 004928865.1        YRQSYKWLQR.....   806
NTDB id 313045 AhaeAN43 RS04945 WP 160126531.1   HRKKRKWLSKNSLSN   812
NTDB id 1070 ABD1 RS13145 WP 000472713.1         RRLDRLWLSRGF...   810
NTDB id 1083 HON27 RS04190 WP 168726476.1        RRLDRLWLSRGF...   810
consensus                                        *!*** !!****
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X non conserved

X similar

X ≥ 50% conserved