

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
NTDB id 1046 HON27 RS03130 WP 168726941.1  
consensus



80  
80

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
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consensus



160  
160

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
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consensus



240  
240

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
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consensus



320  
320

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
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consensus



400  
400

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
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consensus



480  
480

logo

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560  
560

logo

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RYLHTLKGGANMVQATYLGSI<sup>S</sup>THELES<sup>S</sup>IYERLIQKQLV<sup>A</sup>TS<sup>B</sup>LIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA  
RYLHTLKGGANMVQATYLGSI<sup>S</sup>THELES<sup>S</sup>IYERLIQKQLV<sup>A</sup>TS<sup>B</sup>PLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA  
RYLHTLKGGANMVQATYLG<sup>L</sup>IAHELES<sup>S</sup>IYERLIQKQLV<sup>V</sup>TS<sup>D</sup>LIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA  
!!

640  
640

logo

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GQNSNFQPPY<sup>P</sup>MVE<sup>V</sup>FD<sup>S</sup>ESEYFSEQ<sup>KV</sup>ELISEV<sup>L</sup>IDEV<sup>PA</sup>EIEPVLTELEV<sup>HD</sup>DQMVFD<sup>NV</sup>VAELATPVE<sup>AI</sup>TSVTSQENE<sup>V</sup>A  
GQNSNFQPPY<sup>P</sup>MVE<sup>V</sup>FD<sup>S</sup>ESEYFSEQ<sup>KV</sup>ELISEV<sup>L</sup>IDEV<sup>PA</sup>EIEPVLTELEV<sup>HD</sup>DQMVFD<sup>NV</sup>VAELATPVE<sup>AI</sup>TSVTSQENE<sup>V</sup>A  
GQNSNFQPL<sup>P</sup>VVE<sup>A</sup>FD<sup>A</sup>ESEV<sup>F</sup>SEQ<sup>KV</sup>ISEI<sup>I</sup>IDEP<sup>V</sup>ELEPALAELETH<sup>HD</sup>Q.VFD<sup>T</sup>AVTELATPVE<sup>MI</sup>TSVTSQENE<sup>V</sup>  
!!!!!!!!!!!!!!!!\*!\*! ! ! ! !\*!!!! \*!!!!\*!!!!\* !\*!! ! ! ! !\*!!!! ! ! ! ! ! !\*!!!! ! ! ! ! ! !

720  
719

logo

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XXN<sup>E</sup>QDI<sup>E</sup>AW<sup>E</sup>QTFLEE<sup>A</sup>ELLE<sup>MA</sup>ES<sup>L</sup>LLKQWFEQRTNRSILLQLQRAVHSLKGGARMVGL<sup>E</sup>AV<sup>Y</sup>AIAYQLEN<sup>A</sup>FEQFA  
VVE<sup>E</sup>QDIT<sup>I</sup>AVVEQTFLEE<sup>AA</sup>ELLE<sup>MA</sup>D<sup>G</sup>LLKQWFEQRTNRSILLQLQRAVHSLKGGARMVGL<sup>E</sup>AV<sup>Y</sup>AIAYQLEN<sup>T</sup>FEQFA  
AAN<sup>E</sup>QDIE<sup>I</sup>AVVEQTFLEE<sup>AT</sup>ELLE<sup>MA</sup>ES<sup>L</sup>LLKQWFEQRTNRSILLQLQRAVHSLKGGARMVGL<sup>E</sup>AV<sup>Q</sup>AIAYQLEN<sup>A</sup>FEQFA  
!!!! !!!

800  
799

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LHFN<sup>S</sup>NIYDHLLES<sup>AI</sup>AWLKDA<sup>IF</sup>KN<sup>H</sup>YQHF<sup>D</sup>GLQ<sup>S</sup>LENIQFFET<sup>NI</sup>IQIP<sup>AK</sup>LT<sup>RA</sup>DLFSSEPVMTFIQGDGTEPP<sup>PI</sup>Y  
LHFN<sup>S</sup>NIYDHLLES<sup>AI</sup>AWLKDA<sup>IF</sup>KN<sup>H</sup>YQHF<sup>D</sup>GLQ<sup>S</sup>LENIQFFET<sup>NI</sup>IQIP<sup>AK</sup>LT<sup>RA</sup>DLFSSEPVMTFIQGDGTEPP<sup>PI</sup>I  
LHFN<sup>S</sup>NIYDHLLES<sup>AI</sup>AWLKDA<sup>IF</sup>N<sup>H</sup>YQHF<sup>D</sup>GLQ<sup>S</sup>LENIQFFET<sup>TI</sup>IQIP<sup>TK</sup>LT<sup>RA</sup>DLFSSEPVMTFIQGDGTEPP<sup>PM</sup>  
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880  
879

logo

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MGAW<sup>E</sup>QTERLDQNNEMIRVSADLIEK<sup>M</sup>IDL<sup>S</sup>GENSINRSRIEM<sup>D</sup>LSQFSHTLVEMELAIQRLADQLRRMEGELETQIIAK  
MGAW<sup>E</sup>QTERLDQNNEMIRVSADLIEK<sup>M</sup>IDL<sup>S</sup>GENSINRSRIEM<sup>D</sup>LSQFSHTLVEMELAIQRLADQLRRMEGELETQIIAK  
MGAW<sup>E</sup>QTERLDQNNEMIRVSADLIEK<sup>M</sup>IDL<sup>S</sup>GENSINRSRIEM<sup>D</sup>LSQFSHTLVEMELAIQRLADQLRRMEGELETQIIAK  
!!

960  
959

logo

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HGI<sup>E</sup>HSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLS<sup>H</sup>KIRD<sup>T</sup>ESLLLQ<sup>S</sup>SRIQAEIQEGLMRTRLVPFSRLL  
HGI<sup>E</sup>HSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLS<sup>H</sup>KIRD<sup>T</sup>ESLLLQ<sup>S</sup>SRIQAEIQEGLMRTRLVPFSRLL  
HGI<sup>E</sup>HSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLS<sup>D</sup>KIRD<sup>T</sup>ESLLLQ<sup>S</sup>SRIQAEIQEGLMRTRLVPFSRLL  
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1040  
1039

logo

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PRLQ<sup>R</sup>IVRQTSTALNRP<sup>A</sup>E<sup>L</sup>FN<sup>N</sup>TEGELDRNILERLVT<sup>P</sup>LEHMLR<sup>NA</sup>IDHGLEDR<sup>T</sup>AQRQQANK<sup>P</sup>E<sup>T</sup>GR<sup>I</sup>ELNIQRQ<sup>G</sup>AD  
PRLQ<sup>R</sup>IVRQTSTALNRP<sup>A</sup>E<sup>L</sup>FN<sup>N</sup>TEGELDRNILERLVT<sup>P</sup>LEHMLR<sup>NA</sup>IDHGLEDR<sup>T</sup>AQRQQANK<sup>P</sup>E<sup>A</sup>GR<sup>I</sup>ELNIQRQ<sup>G</sup>AD  
PRLQ<sup>R</sup>IVRQTSTALNRP<sup>A</sup>E<sup>L</sup>FN<sup>N</sup>TEGELDRNILERLVT<sup>P</sup>LEHMLR<sup>NA</sup>IDHGLEDR<sup>A</sup>AQRQQANK<sup>P</sup>ETGR<sup>I</sup>ELNIQRQ<sup>G</sup>TD  
!!

1120  
1119

logo

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1200  
1199

logo

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1280  
1279

logo

NTDB id 395144 GD578 RS15795 WP 153518680.1  
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consensus



1360  
1359

logo

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NTDB id 1046 HON27 RS03130 WP 168726941.1  
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1440  
1439

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consensus



1507  
1506

☒ non conserved  
 ✖ similar  
 ☒ ≥ 50% conserved