

MSDPTLFDYSMIKGTVEAILFQNSDNFYTVLKVDITETNEDFD.TMPTTVVGFLPNIVEGDVYTFKGQGVVDHPRYGKQLKAE
MQQHMDLLKEDEPMTEAITFHDDNFYTVLKVKVTETSEAFDDKAPSTTFFATQEEDTKKIVDHPRYGLQLQAE

T F K K E M P T T K E G | S Y L S S D L F K G V G K K T A Q N I V N T L G D S A I N K D H S V L Y K V S R S K K K Q K T L A G Q L S R N Q G S E Q I M I S L N Q
H F K K E I P T T K E A I Q L S S D L F E G V G K K T A E E I V K K L G D S A I N K D A A A A E D P G L A D Q T A E A T Q A H E L E K I M I R L H D

T F E K E M P Q T K E A I I S Y L S S D L F K G V G K K T A Q N I V N T L G D N A I N D I L D D H S V L E K V S G L S K K K Q K Q I A E Q I S A N Q E S E K I M I R L H D
H F K K E I P T T K E G I I Q Y L S S D L F E G I G K K T A E E I V K K L G D S A I N K I L A D A S V L Y D V P R L S K K K A D T L A G A L Q R H Q G L E Q I M I S L N Q

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RNQVQVAPASQKEALQTALNSPVMLLTGGPGTGKTTVIRGIVELYGELHGVSLDYSDYVWVEDYPVLAAPTGRASKRMSESTGLPE
 AMDVNIAAATKATNSKMLLLTGGPGTGKTTVIRGIVELYAETHGLSLDYPDAKKDDAFIVLAAPTGRASKRLQESTGLE
 ANQVNYAASQKEALQTALINSKVMLLTGGPGTGKTTVIRGIVELYAEIHGLSLDYDDYVNDDYPVLAAPTGRASKRLQESTGLE
 RMDVQYAPASQKEALIKKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKDEAFPIVLAAPTGRASKRMSESTGLP

RLTEVYRQQEGSSVELAHQMKNGQLPNTLTQRTKDRSFRCQGSQIPTWEKWTSAVYVNGGYTMDIQVLAPMYRGKAGINRKLNL
 NLTEVYRQQDGSSIIELAHRMKLGKQKILDITQRFHDRSFINCQANQIPTVVEKVVTSAYVNGGYTMDIQVLAPMYRGKAGIKRNLN
 RLTDITYRQAEQGSSVELAHQMKNGLLPNNLTAPTDRSFIRCGSQIKEVVEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNL

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595

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☐ non conserved
☒ similar
☒ ≥ 50% conserved