```
NTDB id 966283 MKY13 RS12925 WP 339213140.1  MAENLNLF.DINKLFILGRPIVTIFHNTTNMYSIVRVKIQETNLQYDEKEIIVVGYFPKLVDDELYRFTGQMKSHPKYGM   79
NTDB id 355 BSU 27480 NP 390625.1            MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGL   80
consensus                                    !  **  *  *** ! *  !*!! !!*!****!!* !!    **! * ! !!!! ! **! ! ! * *!!!*!*
```

```
NTDB id 966283 MKY13 RS12925 WP 339213140.1  QFQIETFEKEVPTTEQGIVHYLSSDLFSGVGRKTAEIIVEKLGMDALTKILEDPYALDAVPRLSAEKKLLIRQTIEENLG  159
NTDB id 355 BSU 27480 NP 390625.1            QFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQG  160
consensus                                    !!! !*! !!*!!!  !!**!!!!!!! !*!*!!!! !! !!!  !* !!! !*  !  !!!!!  !   *  *  * !
```

```
NTDB id 966283 MKY13 RS12925 WP 339213140.1  LERVMVRLNEWGFGPQLGMKIYQAYREETLSLLTENPYRLIEEVEGVGFIRADELGAKLGITGNHPDRIKAAIFHVLTNA  239
NTDB id 355 BSU 27480 NP 390625.1            LEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETT  240
consensus                                    !! *!* !! *!!!!!! !!!!!!!  !!!  * !!!! !* *!!!*!! *!!!!! **!**!!!!*!*!!!! * !
```

```
NTDB id 966283 MKY13 RS12925 WP 339213140.1  ALSEGHVYLDAEMVLPMVKEMLEQSQRIEIPYE..AISKAAIEMREESKICGEETRMYLPSLYFSEVGIASKINELKEKN  317
NTDB id 355 BSU 27480 NP 390625.1            CLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQT  320
consensus                                    *!!!!! !** ! ***    *! !! !   *  **    ! ! * !   !* !* !*! !!!** !   *! ** **
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NTDB id 966283 MKY13 RS12925 WP 339213140.1  KKAENFSRDEIRKAIGDIEEQYDVTYAPTQALAIETALNSAVMILTGGPGTGKTTVVRGLVEVYAELHGLSLNPKTYAEK  397
NTDB id 355 BSU 27480 NP 390625.1            EYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYK.K  399
consensus                                        *!*  !   !*!**!!  !! !!!*!  !!  !! !**** !!!!!!!!!!!!*!!*!!*!*!!!!*!!! !  ! *!
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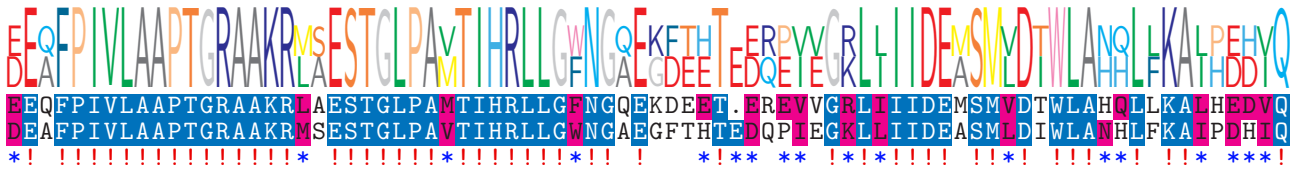


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NTDB id 966283 MKY13 RS12925 WP 339213140.1  EEQFPIVLAAPTGRAAKRLAESTGLPAMTIHRLLGFNGQEKDEET.EREVVGRLIIIDEMSMVDTWLAHQLLKALHEDVQ  476
NTDB id 355 BSU 27480 NP 390625.1            DEAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQ  479
consensus                                    *! !!!!!!!!!!!!!!!* !!!!!!!*!!!!!!!*!! !    *!** ** !*!*!!!! !!*! !!!**! !!* ***!
```

```
NTDB id 966283 MKY13 RS12925 WP 339213140.1  VVFVGDQDQLPPVGPGQVLKDLLASKQIPTVELTDIYRQAEGSTIIEMAHQIKKGTVPETLTAKTTDRSFIQAGTAQVTS  556
NTDB id 355 BSU 27480 NP 390625.1            IIIVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKE  559
consensus                                    ** !!! !!!!*!!!!!!!*!!!!!  !!!! !!!!!!!!!!*!*!*!!!*! ! *!  !!!*! !!!!! *!  !*
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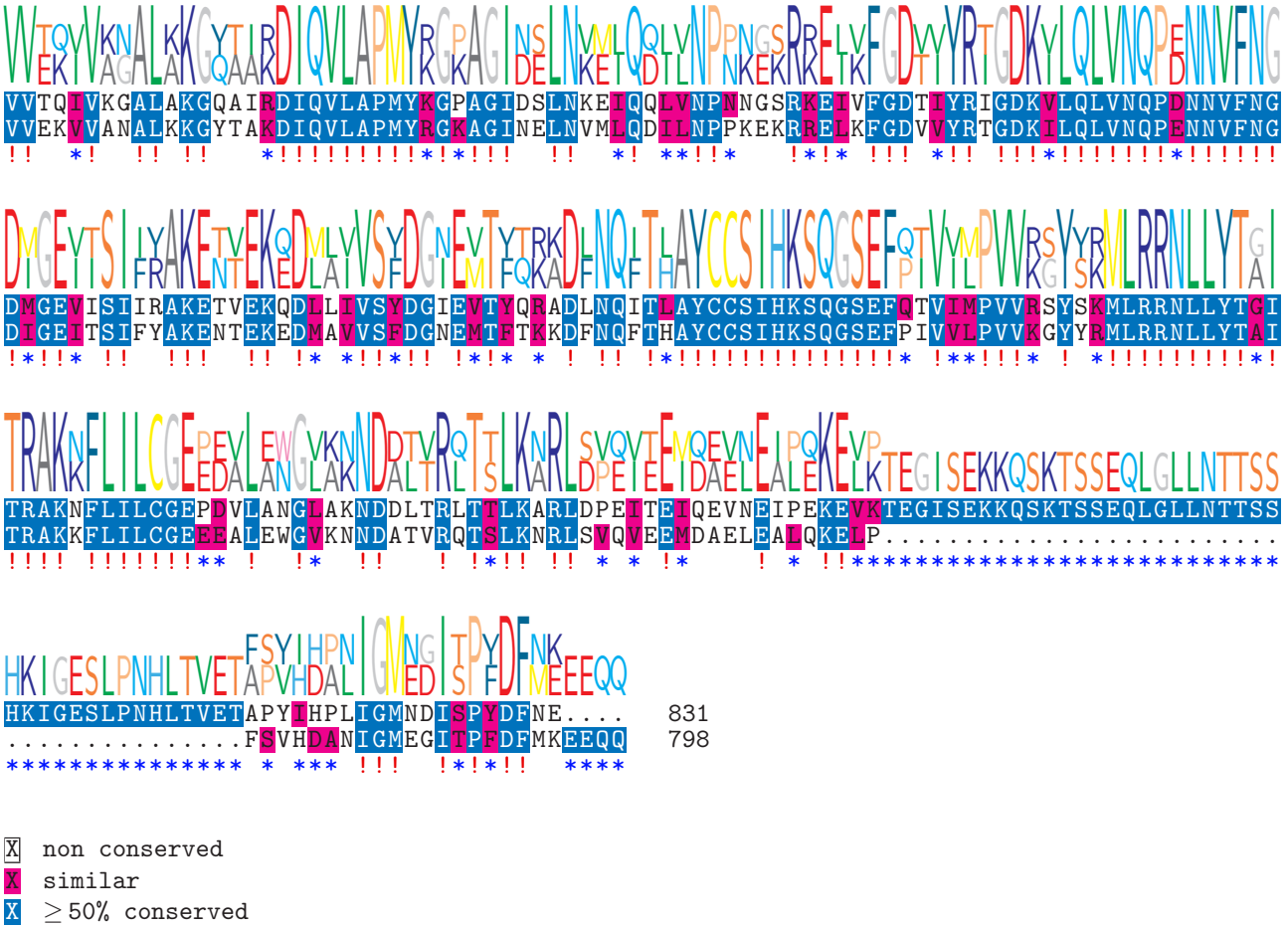
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NTDB id 355 BSU 27480 NP 390625.1 VVEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNG 639
consensus
logo
NTDB id 966283 MKY13 RS12925 WP 339213140.1 DMGEVISIIRAKETVEKQDLLIVSYDGIEVTYQRADLNQITLAYCCSIHKSQGSEFQTVIMPVVRSYSKMLRRNLLYTGI 716
NTDB id 355 BSU 27480 NP 390625.1 DIGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAI 719
consensus
logo
NTDB id 966283 MKY13 RS12925 WP 339213140.1 TRAKNFLILCGEPDVLANGLAKNDDLTRLTTLKARLDPETTEIQEVNEIPEKEVKTEGISEKKQSKTSSEQLGLLNTTSS 796
NTDB id 355 BSU 27480 NP 390625.1 TRAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDAELEALQKELP..... 774
consensus
logo
NTDB id 966283 MKY13 RS12925 WP 339213140.1 HKIGESLPNHLTVETAPYTHPLIGMNDISPYDFNE.... 831
NTDB id 355 BSU 27480 NP 390625.1 .....FSVHDANIGMEGITPFDFMKEEQQ 798
consensus
X non conserved
X similar
X ≥ 50% conserved