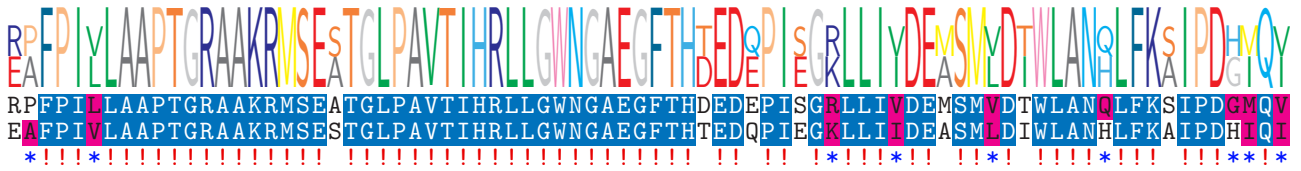
```
NTDB id 365175 BV455 RS13720 WP 017435571.1  .MRQQESFALDEASFIKGTCVATIFHNEENFYSVIRVRVEETNEACEEQEVVVTGYFPKMNEQDTYIFYGKFHNHPRFGR   79
NTDB id 355 BSU 27480 NP 390625.1            MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGL   80
consensus                                    *  ***   !*! ***!!!*   !*!!* ! !*!**!*! !! !!*!*  ! !!!!!! **! *!! !!!! * !!*!!
```

```
NTDB id 365175 BV455 RS13720 WP 017435571.1  QYVVEHFRKQFPNTKEGLIHYLASDLFKGIGKKTATAIVETLGENAISKILEDPSVLDGVPKLTKQKAKELYETLRTHEG   159
NTDB id 355 BSU 27480 NP 390625.1            QFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQG   160
consensus                                    !*  !!!*!  ! !!!!*!*!! !!!! !!!!!!!  !! !!* !! !!! !*!!!  !!*!*! !!  !  !  ! !
```

```
NTDB id 365175 BV455 RS13720 WP 017435571.1  LEQTMIALSQFGFGPQLAMKIYQAYQEETLSIIQQNPYQLVEDVEGIGFGRADELGYQLGISGSHPARIRAACLFALEQD   239
NTDB id 355 BSU 27480 NP 390625.1            LEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETT   240
consensus                                    !!!  !! ! !!!!!!!! !!!!!!! !!!  !! !!!!!! !!!!!!!!*!!!!!  *!*!! !! !**!!*!* !!
```

```
NTDB id 365175 BV455 RS13720 WP 017435571.1  CLQEGHVYITKDQLTAHVKQLLEAKRSETIRAE..TIEQMLVMLAEEGKLIEEEERFYIPSLYFAEKGIVTNVKRLLQQT   317
NTDB id 355 BSU 27480 NP 390625.1            CLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQT   320
consensus                                    !! !!! !!  *!!  *   !!      !  !  **   * ** !*!   ** !* !*! !!!**!!  *   !!**  !!
```

```
NTDB id 365175 BV455 RS13720 WP 017435571.1  EAVMTFPESEFLLALGRLEERLSVQYAPLQKEAIRQALSSSLFILTGGPGTGKTTVIKGIVEIFADLHGLSLDPKDYTKD   397
NTDB id 355 BSU 27480 NP 390625.1            EYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKD   400
consensus                                    !    !!!!!!!!!!! !!!!* !!!!! !!!!!  !!!!** *!!!!!!!!!!!!!!*!!!!**** !!!*!!!!  ! !!
```

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NTDB id 355 BSU 27480 NP 390625.1            EAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQI   480
consensus                                     *!!!*!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!! !! !! !*!!!*!! !!*! !!!!*!!!  !!!**!*
```

```
NTDB id 365175 BV455 RS13720 WP 017435571.1  ILVGDEDQLPSVGPGQVLKDLLRAGVVPTVRLTEVYRQAEGSSIIELAHQMKNGLVPSDLTAQKADRSFIRCQTGQVAEV   557
NTDB id 355 BSU 27480 NP 390625.1            ITVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEV   560
consensus                                    !*!!!!!!!!!!!!!!!!*!!!   !*!!!!!!**!!!!!!!!!*!!!!!!!!!!*   !!!*  !!!!!!!    !* !!
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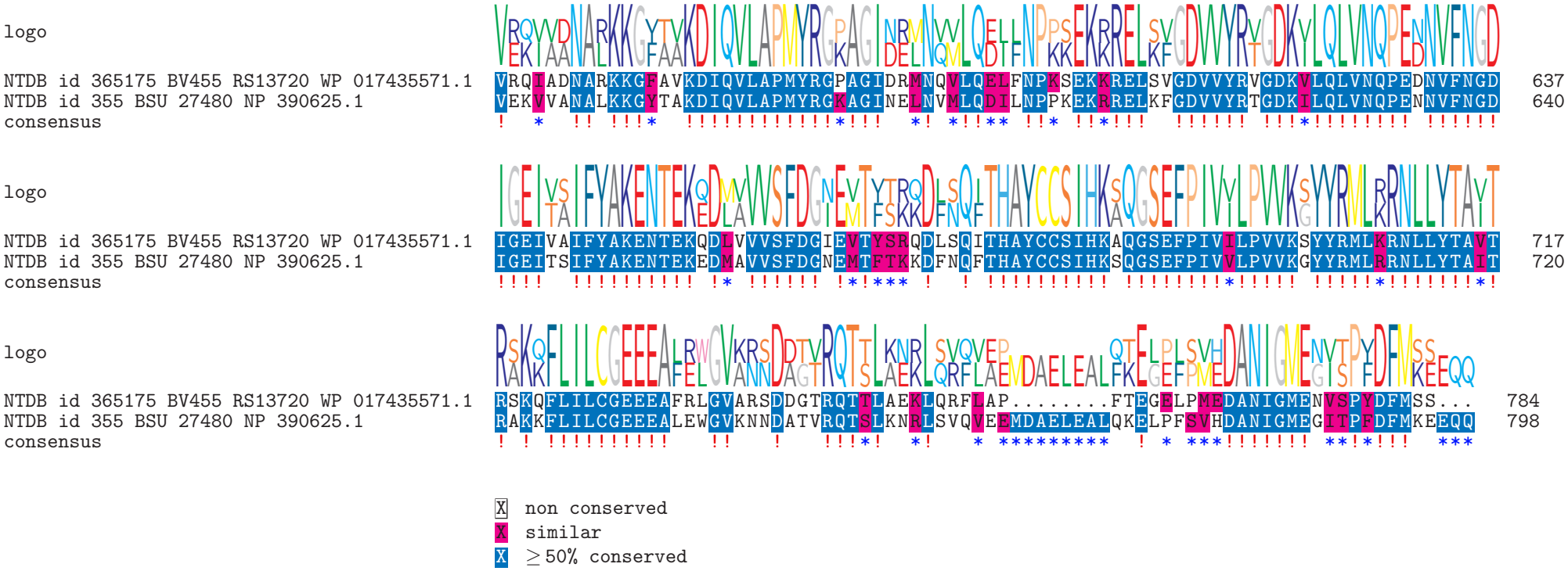
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NTDB id 355 BSU 27480 NP 390625.1 VEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNGD 640
consensus
logo
NTDB id 365175 BV455 RS13720 WP 017435571.1 IGEIVAIFYAKENTEKQDLVVVSFDGIEVTYSRQDLSQITHAYCCSIHKAQGSEFPIVILPVVKSYYRMLKRNLLYTAVT 717
NTDB id 355 BSU 27480 NP 390625.1 IGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAIT 720
consensus
logo
NTDB id 365175 BV455 RS13720 WP 017435571.1 RSKQFLILCGEEEAFRLGVARSDDGTRQTTLAEKLQRFLAP.....FTEGELPMEDANIGMENVSPYDFMSS... 784
NTDB id 355 BSU 27480 NP 390625.1 RAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDAELEALQKELPFSVHDANIGMEGITPFDFMKEEQQ 798
consensus
X non conserved
X similar
X ≥ 50% conserved