```
NTDB id 247500 COP00 RS08175 WP 048406433.1  .......MQMDEASFLKGTVTTVIYHNETNLYTVLKVKVQETSESFDEKTVSVTGYFPAIFEDETYTFYGKKASHPKFGL   73
NTDB id 355 BSU 27480 NP 390625.1            MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGL   80
consensus                                    ******** **!  **!!!!! !!!!!!*!!!!!!!!!!! !!!!  **!  !!!!!!!!!* !*!!!!!!!!  *!!!!!!
```

```
NTDB id 247500 COP00 RS08175 WP 048406433.1  QFQTDHFKKEVPTTKEGVIQYLSSDLFEGIGKKTAEEIVNKLGEGAINRILGDASVLYDVPKLSKKKADKLAAALQQHQG   153
NTDB id 355 BSU 27480 NP 390625.1            QFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQG   160
consensus                                    !!! *!!!!!*!!!!!!*!!!!!!!!!!!!!!!!!!!! !!!* !!!*!!*!!!!!!!!*!!!!!!! !!*!!! !!!
```

```
NTDB id 247500 COP00 RS08175 WP 048406433.1  LEQIMISLSEFGFGPQLSMKIYQAYESETLDKIRENPYQLVKDVEGIGFVKADELGGRMGISGRHPERVKAAILFTIEAA   233
NTDB id 355 BSU 27480 NP 390625.1            LEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETT   240
consensus                                    !!!!!!!!  !!!!!!!!!!!!!!!!!!!!*!! !!!!!!!!!!!!!!!! !!!!!! !!!*!! !!!!!!!!!!*!*!
```

```
NTDB id 247500 COP00 RS08175 WP 048406433.1  CLQEGHTYIETKQLIIETQKLLNQSSGE.EKVTEMDVADSIISLGEQKELFIEDDRCYYPSLYYAEQSFAKRVLTIAEQT   312
NTDB id 355 BSU 27480 NP 390625.1            CLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQT   320
consensus                                    !! !!!!!!!! !!!!*!! !!!!!  !* **!!!! !  !! !!!*!** !!! !!!*!!!*!!!!  !!!! *!! !!
```

```
NTDB id 247500 COP00 RS08175 WP 048406433.1  EYDDQFPESEFLLALGELEERMQVQYAPSQKEAIQKALMSPMLLLTGGPGTGKTTVIRGIVELYSELHGLSLNPADYKKD   392
NTDB id 355 BSU 27480 NP 390625.1            EYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKD   400
consensus                                    !!* !!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!*!! !  !!!!
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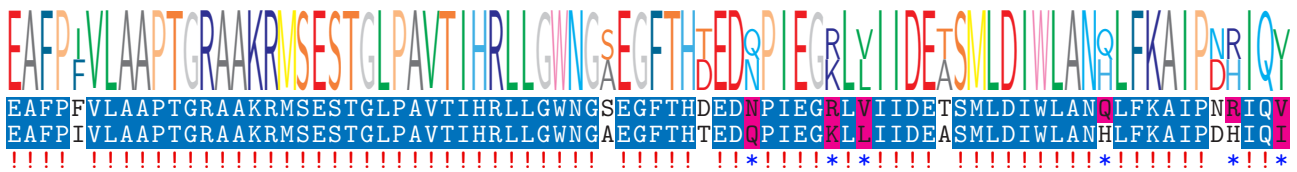


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NTDB id 247500 COP00 RS08175 WP 048406433.1  EAFPFVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGSEGFTHDEDNPIEGRLVIIDETSMLDIWLANQLFKAIPNRIQV   472
NTDB id 355 BSU 27480 NP 390625.1            EAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQI   480
consensus                                    !!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!! !!*!!!!*!*!!!! !!!!!!!!!*!!!!!! *!!*
```
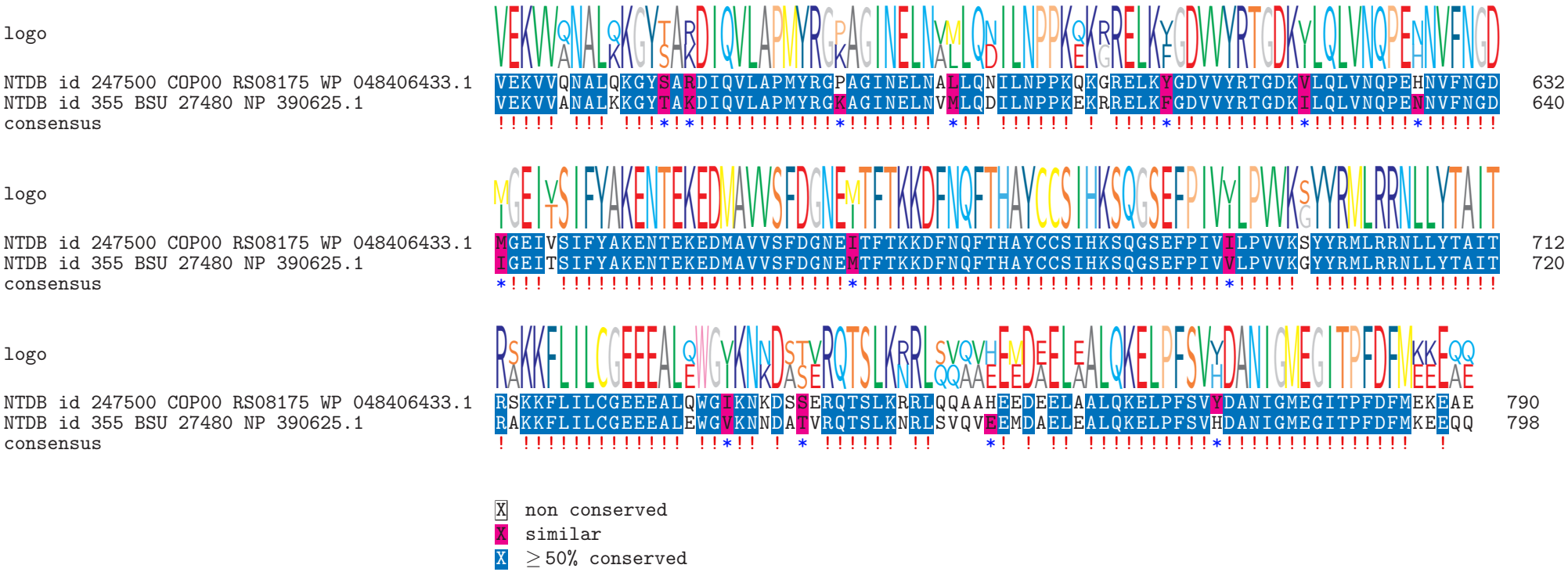

```
NTDB id 247500 COP00 RS08175 WP 048406433.1  IMVGDEDQLPSVGPGQVLRDLLASNVIASVRLTDIYRQAEGSSIVELAHDMKKGRLPQNLTAPTKDRSFIRCRQQQMKEV   552
NTDB id 355 BSU 27480 NP 390625.1            ITVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEV   560
consensus                                    !*!!!!!!!!!!!!!!!!!!!!!!*!!**!!!!!!!!!!!!!!!!!!!! !! ! !!*!!!!!!!!!!!!!!!  !*!!!
```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NTDB id 355 BSU 27480 NP 390625.1 VEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKEKRRELKFGDVVYRTGDKILQLVNQPENNVFNGD 640
consensus
logo
NTDB id 247500 COP00 RS08175 WP 048406433.1 MGEIVSIFYAKENTEKEDMAVVSFDGNEITFTKKDFNQFTHAYCCSIHKSQGSEFPIVILPVVKSYYRMLRRNLLYTAIT 712
NTDB id 355 BSU 27480 NP 390625.1 IGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAIT 720
consensus
logo
NTDB id 247500 COP00 RS08175 WP 048406433.1 RSKKFLILCGEEEALQWGIKNKDSSERQTSLKRRLQQAAHEEDEELAALQKELPFSVYDANIGMEGITPFDFMEKEAE 790
NTDB id 355 BSU 27480 NP 390625.1 RAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDAELEALQKELPFSVHDANIGMEGITPFDFMKEEQQ 798
consensus
X non conserved
X similar
X ≥ 50% conserved