```
logo
                                                   MKKMMTFLKKAKVKAFTLYEMLVLLISYLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLEKN ED
                                                   MSKALSLVKIHGRKLCQKKQKAFTLIEMLIVLAIISILILLFVPNLIKEKAQVQKTGEAAVVKVVESQAQLYELDHDNDK
                                                   ...........MKKLVEMKVKGFTLVEMLVVLGIISLLLLLFVPNLSQQKDAIGKKGDAAVVKVVESQMELYELEHD.EE
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLLLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLDKN.ED
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLEKN.ED
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLEKN.ED
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLEKN.ED
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLEKN.ED
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLEKN.ED
                                                   .......MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLLLLFVPNLTKQKEAVNDKGKAAVVKVVESQAELYSLDKN.ED
                                                   ...........MNKLKKLRVKAFTLVEMLVVLLIISVLMLLFVPNLTKQKEAVSDTGNAAVVKVVESQAELYELKNTGDQ
                                                   ...........MKKIKRVSVRAFTLIEMLVVLLIISILLLLFVPNLTKQKDKVKDTGGSAVVKVVESQAELYELNKT.DS
                                                   ...........MKKIKRVSVRAFTLIEMLVVLLIISILLLLFVPNLTKQKDKVKDTGGSAVVKVVESQAELYELNKT.DS
consensus                                                  **   *   *** ****!!!*!!!*!***!!*!*!!!!!!!***!******! *!!!!*!!*!**!! !**   **
```

```
logo
                                                   ASLSKLQADGRITEEQAKAYKEYYDKNGGANRKVND
                                                   PNLSELLSAGMITQKQVTAYDDYYDQNKNEQRNFDD
                                                   ATVADLQAKGYITEKQAKQYATAKK..........
                                                   ASLSKLQADGRITEEQAKAYKEYHAKQNTSQTVAD.
                                                   ASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND
                                                   ASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND
                                                   ASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND
                                                   ASLRKLQADGRITEEQAKAYKEYNDKNGGANRKVND
                                                   ASLSKLQADGRITEEQAKAYNEYYAKNGGANRKVND
                                                   ATLSKLVAAGNISQKQADSYKAYYGKNNSETQAVAN
                                                   ATLSKLVASGDITQEQANSYKDYYAKHPSKTRHVAN
                                                   ATLSKLVASGDITQEQANSYKDYYAKHPSKTRHVAN
consensus                                          *****!***! !***!***!***  **   ** *
```

X non conserved

X similar

X ≥ 50% conserved