```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 183146 LLUC08 RS10815 WP 081040674.1  MERTKKFILKKIQKIFLFVKICEKKCRQKELKAFTLIEMLIVLAIISILLILLFVPNLIKEKSQVQKTGEAAVVKVVESQA   80
NTDB id 588 KW2 RS10845 WP 051303741.1        ...........MSKALSLVKIHGRKLCQKKQKAFTLIEMLIVLAIISILLILLFVPNLIKEKAQVQKTGEAAVVKVVESQA   69
NTDB id 460 GPW51 RS00790 WP 011921720.1      ......................MKKLVEMKVKGFTLVEMLVVLGIISLLLLLFVPNLSQQKDAIQKKGDAAVVKVVESQM   58
NTDB id 502 SM12261 RS00955 WP 000738641.1    ..................MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLLLLFVPNLTKQKEAVNDKGKAAVVKVVESQA   62
NTDB id 272 KZH43 RS09255 WP 000738626.1      ..................MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQA   62
NTDB id 231 SPD RS09885 WP 000738626.1        ..................MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQA   62
NTDB id 197 SPR RS09420 WP 000738626.1        ..................MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQA   62
NTDB id 162 SP RS10370 WP 000738627.1         ..................MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVPNLTKQKEAVNDKGKAAVVKVVESQA   62
NTDB id 530 SMSK321 RS09230 WP 000738643.1    ..................MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLLLLFVPNLTKQKEAVNDKGKAAVVKVVESQA   62
NTDB id 431 SGO RS09410 WP 012130940.1        ......................MNKLKKLRVKAFTLVEMLVVLLIISVLMLLFVPNLTKQKEAVSDTGNAAVVKVVESQA   58
NTDB id 396 FSA28 RS09395 WP 002263437.1      ......................MKKIKRVSVRAFTLIEMLVVLLIISILLLLFVPNLTKQKDKVKDTGGSAVVKVVESQA   58
NTDB id 387 SMU RS09025 WP 002263437.1        ......................MKKIKRVSVRAFTLIEMLVVLLIISILLLLFVPNLTKQKDKVKDTGGSAVVKVVESQA   58
consensus                                                            **   *  *** ****!!!*!!!*!!*!!!*!*!!!!!!!***!******!  *!!!!!!!!!*
```

```
logo
                                                                                                                                                                                                                                                                                                                                                
NTDB id 183146 LLUC08 RS10815 WP 081040674.1  QLYELDHDDEKPSLSELLNAGMITQKQISAYDNYYDQNKNEERNFND   127
NTDB id 588 KW2 RS10845 WP 051303741.1        QLYELDHDNDKPNLSELLSAGMITQKQVTAYDDYYDQNKNEQRNFDD   116
NTDB id 460 GPW51 RS00790 WP 011921720.1      ELYELEHD.EEATVADLQAKGYITEKQAKQYATAKK...........    93
NTDB id 502 SM12261 RS00955 WP 000738641.1    ELYSLDKN.EDASLSKLQADGRITEEQAKAYKEYHAKQNTSQTVAD.   107
NTDB id 272 KZH43 RS09255 WP 000738626.1      ELYSLEKN.EDASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND   108
NTDB id 231 SPD RS09885 WP 000738626.1        ELYSLEKN.EDASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND   108
NTDB id 197 SPR RS09420 WP 000738626.1        ELYSLEKN.EDASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND   108
NTDB id 162 SP RS10370 WP 000738627.1         ELYSLEKN.EDASLRKLQADGRITEEQAKAYKEYNDKNGGANRKVND   108
NTDB id 530 SMSK321 RS09230 WP 000738643.1    ELYSLDKN.EDASLSKLQADGRITEEQAKAYNEYYAKNGGANRKVND   108
NTDB id 431 SGO RS09410 WP 012130940.1        ELYELKNTGDQATLSKLVAAGNISQKQADSYKAYYGKNNSETQAVAN   105
NTDB id 396 FSA28 RS09395 WP 002263437.1      ELYELNKT.DSATLSKLVASGDITQEQANSYKDYYAKHPSKTRHVAN   104
NTDB id 387 SMU RS09025 WP 002263437.1        ELYELNKT.DSATLSKLVASGDITQEQANSYKDYYAKHPSKTRHVAN   104
consensus                                     *!! !**  *******!** ! !***!***!***  **   ** * *
```

X non conserved

X similar

X $\geq$ 50% conserved