```
logo

NTDB id 1111478 ACN076 RS10005 WP 000103703.1   MSTIDKEKFQFVKRDDFASETIDAPAYSYWKSVFRQFMKKKSTVVMLGILVAIILMSFIYPMFSKFDFNDVSKVNDFSAR   80
NTDB id 477 HSISS4 RS06990 WP 021143810.1       MASIDKSKFQFVKRDDFASETIDAPAYSYWKSVMRQFFKKKSTTVMLGILIAIILMSFIYPMFSKFDFNDVSKVNDFSVR   80
NTDB id 326 STU RS16120 WP 002946409.1          MASIDKSKFQFVKRDDFASETIDAPSYSYWKSVMRQFFKKKSTVVMLGILITIILMSFIYPMFSKFDFNDVSKVNDFSLR   80
NTDB id 294 STER RS06920 WP 002946409.1         MASIDKSKFQFVKRDDFASETIDAPSYSYWKSVMRQFFKKKSTVVMLGILITIILMSFIYPMFSKFDFNDVSKVNDFSLR   80
consensus                                       !**!!!*!!!!!!!!!!!!!!!!!!! !!!!!!!*!!!*!!!!!*!!!!!!* !!!!!!!!!!!!!!!!!!!!!!!!!!*!

logo

NTDB id 1111478 ACN076 RS10005 WP 000103703.1   YIKPNAEHWFGTDSNGKSLFDGVWFGARNSILISVIATVINLVIGVFVGGIWGISKSVDRVMMEVYNVISNIPSLLIVIV   160
NTDB id 477 HSISS4 RS06990 WP 021143810.1       YVHPNAQYWFGTDSNGKSLFDSVWFGARNSILIAVIATFINVVIGLVVGAVWGISKTFDMIMMEIYNIISNIPALLVVIV   160
NTDB id 326 STU RS16120 WP 002946409.1          YVHPNAQYWFGTDGNGKSLFDSVWFGARNSILIAVIATFLNVIIGLLVGAVWGISKTFDMIMMEIYNIISNIPSLLVVIV   160
NTDB id 294 STER RS06920 WP 002946409.1         YVHPNAQYWFGTDGNGKSLFDSVWFGARNSILIAVIATFLNVIIGLLVGAVWGISKTFDMIMMEIYNIISNIPSLLVVIV   160
consensus                                       !**!!!**!!!!! !!!!!!!*!!!!!!!!!!!*!!!!**!**!!**!!**!!!!!**!**!!!*!!*!!!!!*!!*!!!

logo

NTDB id 1111478 ACN076 RS10005 WP 000103703.1   LTYSIGAGFWNLIFAMSVTTWIGIAFMIRVQILRYRDLEYNLASRTLGTPTLKIVAKNIMPQLVSVIVTTMTQMLPSFIS   240
NTDB id 477 HSISS4 RS06990 WP 021143810.1       LTYSLGAGFWNMIFAMTVTGWIGIAYTIRIQIMRYRDLEYNLASRTLGTPTAKIVVKNIMPQLVSVIVTMASQLLPGFIS   240
NTDB id 326 STU RS16120 WP 002946409.1          LTYSLGAGFWNMIFAMTVTGWIGIAYTIRIQIMRYRDLEYNLASRNLGTPTAKIVIKNIMPQLVSVIVTMASQLLPGFIS   240
NTDB id 294 STER RS06920 WP 002946409.1         LTYSLGAGFWNMIFAMTVTGWIGIAYTIRIQIMRYRDLEYNLASRNLGTPTAKIVIKNIMPQLVSVIVTMASQLLPGFIS   240
consensus                                       !!!!*!!!!!!*!!!!*!!*!!!!!**!!*!!*!!!!!!!!!!!!! !!!!!*!!!*!!!!!!!!!!!!!!!***!*!!*!!!

logo

NTDB id 1111478 ACN076 RS10005 WP 000103703.1   YEAFLSFFGLGLPITVPSLGRLISDYSQNVTTNAYLFWIPLTTLVLVSLSLFVVGQNLADASDPRTHR   308
NTDB id 477 HSISS4 RS06990 WP 021143810.1       YEAFLSYFGLGLPVTTPSLGRLISDYAQNVTVNAYLFWIPLTTLILVSLALFIVGQNLADASDPRTHR   308
NTDB id 326 STU RS16120 WP 002946409.1          YEAFLSYFGLGLPVTTPSLGRLISDYAQNVTVNAYLFWIPLTTLILVSLALFIVGQNLADASDPRTHR   308
NTDB id 294 STER RS06920 WP 002946409.1         YEAFLSYFGLGLPVTTPSLGRLISDYAQNVTVNAYLFWIPLTTLILVSLALFIVGQNLADASDPRTHR   308
consensus                                       !!!!!!*!!!!!!*!*!!!!!!!!!!*!!!!*!!!!!!!!!!!!!*!!!!*!!*!!!!!!!!!!!!!!!
```

X non conserved

X similar

X $\geq$ 50% conserved