logo

```
NTDB id 67274 SITYG RS08100 WP 096363109.1  MKKYIFMRILRSLVSIFMVTTLTYTIIYTMVPRKLIFKQDPNYNKIATTPDKKTNYENTIFERMGYIDYYDTKELQEKASKENSS   85
NTDB id 476 HSISS4 RS06995 WP 013990225.1  MKKYILLRTLRSLLSIFVVTALTYTIIYTMVPRRLIFRQDPNYNKIAKTADSKANYENTIYERMGYIDYYDTKELQEKASSLDKS   85
NTDB id 325 STU RS16125 WP 002946410.1     MKKYILLRTLRSLLSIFVVTALTYTIIYTMVPRRLIFRQDPNYNKIAKTADSKANYENTIYERLGYIDYYDTKELQEKASSLDKS   85
NTDB id 293 STER RS06925 WP 011681416.1   MKKYILLRTLRSLLSIFVVTALTYTIIYTMVPRRLIFRQDPNYNKIAKTADSKANYENTIYERLGYIDYYDTKELQEKASSLDKS   85
consensus                                 !!!!!**!*!!!!*!!!*!!*!!!!!!!!!!!!*!!!*!!!!!!!!!*!*!*!*!!!!!!*!!*!!!!!!!!!!!!!!!!****!
```

logo

```
NTDB id 67274 SITYG RS08100 WP 096363109.1  VTVEPTNANKKIYEAYIKKLGRGWKLQQFKESKQFYATREVPVYERVLGFYGNLIQIDHTGAVKDASNPNLKRYLRIENDPAIGW   170
NTDB id 476 HSISS4 RS06995 WP 013990225.1  VTTKPTKENKAIYQKYVDSLGHGWRLHQFKQSKQFYATRDVPVLERVFGFYTHLFEFDNTGWVKDKTNPNLKRYIRIENDPAIGW   170
NTDB id 325 STU RS16125 WP 002946410.1     VTTKPTKENKAIYQKYVDSLGRGWRLHQFKQSKQFYATRDVPVLERVFGFYTHLFEFDNTGWVKDKTNPNLKRYIRIENDPAIGW   170
NTDB id 293 STER RS06925 WP 011681416.1   VTTKPTKENKAVYQKYVDSLGRGWRLHQFKQSKQFYATRDVPVLERVFGFYTHLFEFDNTGWVKDKTNPNLKRYIRIENDPAIGW   170
consensus                                 !!**!!**!!**!**!***!!*!!*!*!!!*!!!!!!!!*!!!*!!!*!!!**!***!*!!*!!!**!!!!!!!*!!!!!!!!!!
```

logo

```
NTDB id 67274 SITYG RS08100 WP 096363109.1  SVVGSGTKHKYLLYFNSQFPFIHQNFVRLNLGTSYPTYANLPVLQVISQGQGQTQTSEVQFPTGKKTSSVNIYTRTYKSPKHADV   255
NTDB id 476 HSISS4 RS06995 WP 013990225.1  SVVGSGTKHKYLLYFNSQFPFVHQNFVKMNLGTSYPTYAEQGVLDVITQGQGQTQSSEVNFPTGKKVSSVDIYSRTYKSPSQADA   255
NTDB id 325 STU RS16125 WP 002946410.1     SVVGSGTKHKYLLYFNSQFPFVHQNFVKMNLGTSYPTYAEQGVLDVITQGQGQTKSSVVNFPTGKKISSVDIYSRTYKSPSQADA   255
NTDB id 293 STER RS06925 WP 011681416.1   SVVGSGTKHKYLLYFNGQFPFVHQNFVKMNLGTSYPTYAGQGVLDVITQGQGQTKSSVVNFPTGKKISSVDIYSRTYKSPSQADA   255
consensus                                 !!!!!!!!!!!!!!!!*!!!!*!!!!!**!!!!!!!!!!***!!*!!*!!!!!! *! !*!!!!!!*!!!*!!*!!!!!!**!!*
```

logo

```
NTDB id 67274 SITYG RS08100 WP 096363109.1  RDVANYGKDDPYTATESNYQYPSMLVSSSIVGLIGLALSYLIAVPLGSYMARFKNTLFDSISTGALTFLMSLPTIALVYIIRLIG   340
NTDB id 476 HSISS4 RS06995 WP 013990225.1  RDRSYYG.DDPYTATKSRYQYPSMVTSSAIAGLIGLVLSYALAIPLGSYMARFKNTLFDSVSTGILTFLLSLPTIALVYIIRLIG   339
NTDB id 325 STU RS16125 WP 002946410.1     RDRSYYG.NDPYTATKSRYQYPSMVTSSAIAGLIGLVLSYALAIPLGSYMALFKNTIFDSVSTGVLTFLLSLPTIALVYIIRLIG   339
NTDB id 293 STER RS06925 WP 011681416.1   RDRSYYG.NDPYTATKSRYQYPSMVTSSAIAGLIGLVLSYALAIPLGSYMALFKNTLFDSVSTGVLTFLLSLPTIALVYIIRLIG   339
consensus                                 !!***!!  !!!!!!*!*!!!!!!**!!*!*!!!!!*!!!**!*!!!!!!! !!!!*!!!*!!!*!!!!*!!!!!!!!!!!!!!!
```

logo

```
NTDB id 67274 SITYG RS08100 WP 096363109.1  SAIGLPDSFPILGAGDWRSYVLPAVILGLLSAPWTAVWIRRYMIDLQSQDFVRFARAKGLSEQEISNKHIFKNAMVPLVSSIPGA   425
NTDB id 476 HSISS4 RS06995 WP 013990225.1  SEIGLPDSFPILGAGDWRSYVLPSVILGLLSTPGLAIWIRRYMIDLQSQDFVRFARAKGLSEQEISNKHIFKNAMVSLVSGIPAS   424
NTDB id 325 STU RS16125 WP 002946410.1     SEIGLPDSFPILGAGDWRSYVLPSVILGLLSTPGLAIWIRRYMIDLQSQDFVRFARAKGLSEQEISNKHILKNAMVSLVSGIPAS   424
NTDB id 293 STER RS06925 WP 011681416.1   SEIGLPDSFPILGAGDWRSYVLPSVILGLLSTPGLAIWIRRYMIDLQSQDFVRFARAKGLSEQEISNKHILKNAMVSLVSGIPAS   424
consensus                                 !*!!!!!!!!!!!!!!!!!!!!!*!!!!!!!*!**!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!*!!!*!!**
```

logo

```
NTDB id 67274 SITYG RS08100 WP 096363109.1  IIGVITGATLTETIFAFPGMGKMLIDSVKASNNSMVVGLVFIFTCLSIFALLLGDILMTMLDPRIKLTSKGGK   498
NTDB id 476 HSISS4 RS06995 WP 013990225.1  IVSVITGATLTETIFAYPGMGKMLIDSVRASNNAMVVGLVFIFTALTIFSLLVGDILMTMIDPRIKLTSKGGK   497
NTDB id 325 STU RS16125 WP 002946410.1     IVGVITGATLTETIFAYPGMGKMLIDSVRASNNAMVVGLVFIFTALSIFSLLVGDILMTIIDPRIKLTSKGGK   497
NTDB id 293 STER RS06925 WP 011681416.1   IVGVITGATLTETIFAYPGMGKMLIDSVRASNNAMVVGLVFIFTALSIFSLLVGDILMTIIDPRIKLTSKGGK   497
consensus                                 !**!!!!!!!!!!!!!*!!!!!!!!!!!*!!!!*!!!!!!!!!!*!*!!*!!*!!!!!!**!!!!!!!!!!!!
```

X non conserved
X similar
X $\geq$ 50% conserved