```
logo
NTDB id 68366 SNAG RS08190 WP 096408324.1  MNMKKRLIGTGLV.LATGILLTACGQSNTDTSTFSSTFSANPTTFNYLLDYYADNTSVITNLVDGLLENDSYGNLTPALAEDWSV   84
NTDB id 475 HSISS4 RS07005 WP 021143809.1  MKKSKWLALAGVALLSVGALAACSSKSSTSGTTYGYVYNSDPESLDYITSNTGPTKTAVTNGVDGLMEADKYGNLVPSVAEDWSV   85
NTDB id 324 STU RS16140 WP 011226306.1     MKKSKWLALAGVALLGVGVLAACSSKSNTSGTTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLVPSVAEDWSV   85
NTDB id 292 STER RS06940 WP 011681419.1   MKKSKWLALAGVALLGVGVLAACSSKSNTSGTTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLVPSVAEDWSV   85
consensus                                  !***!*!***!***!**!*!******!*!***!********!****!************!!*!!!!*!*!*!!!!*!**!!!!!!

logo
NTDB id 68366 SNAG RS08190 WP 096408324.1  SADGLTYTYKLRKDAKWYTADGEEYAPVKAQDFVTGIKYAADNKGQAMDLVQNSIKGLNDYVTGATNDFTTVGVKALDDYTVEYT  169
NTDB id 475 HSISS4 RS07005 WP 021143809.1  SQDGLTYTYKIRKGVKWYTSDGEEYADVTAKDFVTGLKHAADGKAGALYLVQDSIAGLSDYLSGANKDFSNVGVKAIDDYTLQYT  170
NTDB id 324 STU RS16140 WP 011226306.1     SKDGLTYTYKIRKGIKWYTSEGEEYANVTAKDFVTGLKHAADSKAGGIYLVQDSIAGLSDYLSGTNKDFSNVGVKAIDEYTLQYT  170
NTDB id 292 STER RS06940 WP 011681419.1   SKDGLTYTYKIRKGIKWYTSEGEEYANVTAKDFVTGLKHAADSKAGGIYLVQDSIAGLSDYLSGTNKDFSNVGVKAIDDYTLQYT  170
consensus                                  !*!!!!!!!!*!!**!!!!**!!!!!*!*!*!!!!!*!*!!!*!*****!!!*!!*!!*!!**!  **!!**!!!!!*!*!!**!!

logo
NTDB id 68366 SNAG RS08190 WP 096408324.1  LTRPEPYWNSKTTNSILFPVNEDFLKSKDKEFGTL.TPNSILYNGPYLLKDFTSKSSIEYVKNPNYYDHEKVTIEKVKLAYFDGS  253
NTDB id 475 HSISS4 RS07005 WP 021143809.1  LKKPEPYWNSKTTYGLLSPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELTKNENYWDKKNVHFDAIKLSYYDGS  255
NTDB id 324 STU RS16140 WP 011226306.1     LKQPEPYWNSKTTYSLLFPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELVKNEHYWDKKNVHFDAIKFSYYDGS  255
NTDB id 292 STER RS06940 WP 011681419.1   LKQPEPYWNSKTTYSLLFPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELVKNEHYWDKKNVHFDAIKFSYYDGS  255
consensus                                  !**!!!!!!!!!!!***!*!!!!*!!!*!*!*!!****!*!!!!!!!*!!!**!*!!!!!**!!**!*!***!*****!  *!*!!!

logo
NTDB id 68366 SNAG RS08190 WP 096408324.1  DQEMTIRNFESGAYTLAGVYPNSSSYAKTKEKYQDNIVYSLQDKTSWYFNFNVNRKAYNHTAKTTDEQKKSTQTAILNKNFRQAL  338
NTDB id 475 HSISS4 RS07005 WP 021143809.1  DQEALERGFTDGAYSLARVYPTSSNYSSVEKKYKDNIYYTAPGASTSAIGVNIDRQSYKFSAKKTDAEKTSTKKALLNKDFRQSI  340
NTDB id 324 STU RS16140 WP 011226306.1     DQDALVRGFTDGAYNFARVFPTSSNYASVEKKYKDNIYYTAPGASTSAIGINLDRQSYKYTAKKTDSEKSSTKKALLNKDFRQAI  340
NTDB id 292 STER RS06940 WP 011681419.1   DQDALVRGFTDGAYNFARVFPTSSNYASVEKKYKDNIFYTAPGASTSAIGINIDRQSYKYTAKKTDSEKSSTKKALLNKDFRQAI  340
consensus                                  !!****!*!**!!!!*  !*!*!*!!*!*****!!*!!!*!************!**!**!***!!*!!**!*!!**!*!!!*!!!**

logo
NTDB id 68366 SNAG RS08190 WP 096408324.1  NFAIDRTAYSAQSNGQEAASKTLRNTLVPPTFVQVGDKSFGEVVSSKLVQYGTEWSGINLADAQDGYFNKEKAQAKFAEAKKELE  423
NTDB id 475 HSISS4 RS07005 WP 021143809.1  NFAIDRTAYQSQMNGKDGAALALRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWSGVNFTDGQDGLYNAEKAKTEFAKAKETLQ  425
NTDB id 324 STU RS16140 WP 011226306.1     NFAIDRKAYQSQINGKDGATLAVRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWSGVNFADSQDGLYNAEKAKTEFAKAKDALQ  425
NTDB id 292 STER RS06940 WP 011681419.1   NFAIDRKAYQSQINGKDGATLGVRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWSGVNLADSQDGLYNAEKAKTEFAKAKDALQ  425
consensus                                  !!!!!!  !!**!*!!***!****!!**!!**!!**!!!*!!**!**!***!!*!!!!!*  *!*!!!**!*!!!***!!*!!**!*

logo
NTDB id 68366 SNAG RS08190 WP 096408324.1  AQGVTFPIHLDIPVDQTNKNAVSGMNSVKQTLETVLGSDNVVIDVQQLSTDEFGNVAFLAPNPAARDYDLN.FDGWVGDYQDPST  507
NTDB id 475 HSISS4 RS07005 WP 021143809.1  ADGVQFPIHLDLPVDQSSKINVAQAQSLKQTIEQSLGSDNVVIDVNQLSSDDIQNATLNAANAAAEDWDISNGVIWGPDYQDPST  510
NTDB id 324 STU RS16140 WP 011226306.1     ADGVQFPIHLDLPVDQSSKLNVAQAQSLKQTIEKSLGSENVVIDINQLSSDDLENVTLNAANAAAEDWDISNSVAWAPDYQDPST  510
NTDB id 292 STER RS06940 WP 011681419.1   ADGVQFPIHLDLPVNQSSKLNVAQVQSLKQTIEKSLGSENVVIDINQLSSDDLENATLNAANAAAEDWDISNSVGWAPDYQDPST  510
consensus                                  !*!!*!!!!!!*!!*!**!**!****!*!!!*!**!!!*!!!!!**!!!!*!***!  ***!*!*!!*!*!******!**!!!!!!!
```

```
logo
NTDB id 68366 SNAG RS08190 WP 096408324.1   YLDPFNAEDGFYLKIFGLDAKEDQELIKSLGLDTYTKLLKEADTENQDVAKRYEKYAEAQAWMIDSSLIMST.MSNGGTASVTKV   591
NTDB id 475 HSISS4 RS07005 WP 021143809.1   YLDIFKTTSSENTKTFMGYDDPNNAAAAQVGLKDYDALLDSAASETTDLNARYDRYAQAQAWLEDSSLVIPLTVGNGAAPVISRL   595
NTDB id 324 STU RS16140 WP 011226306.1      YLDIFKTTSSENTKAFMGYDDPNNAAAAQVGLKDYDALLNSAASETSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPAISRL   595
NTDB id 292 STER RS06940 WP 011681419.1    YLDIFKTTSSENTKAFMGYDDPNNAAAAQVGLKDYDALLNSAASETSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPVISRL   595
consensus                                   !!!*!********!*!**************!!**!**!!**!**!**!***!!**!!*!!!!**!!!!*******!!********

logo
NTDB id 68366 SNAG RS08190 WP 096408324.1   TPFTRAYSLVGIKGDGN.NYKYMRLQKDPVTKKQFDEAKAKWEEESKKAIEKSQKEFSNHVK   652
NTDB id 475 HSISS4 RS07005 WP 021143809.1   TPFTGASMQVGDKNS.SDYFKYVKPQEKVVTKKEYEQSREKWLKEKKASNEKAQKDLEKHVK   656
NTDB id 324 STU RS16140 WP 011226306.1      TPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSREKWLKEKKESNEKAQKDLEKHVK   657
NTDB id 292 STER RS06940 WP 011681419.1    TPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSREKWLKEKKESNEKAQKDLEKHVK   657
consensus                                   !!!!*!***!!*!*******!!***!***!!!!*******!!**!*!***!!*!!****!!!
```

X non conserved

X similar

X $\geq$ 50% conserved