```
logo
NTDB id 95280 QML92 RS06555 WP 000748880.1  MKKSKSKYLTLAGLVL.GTGVLLSACGNSSTASKTYNYVYSSDPSSLNYLAENRAATSDIVANLVDGLLENDQYGNIIPSLAEDW   84
NTDB id 475 HSISS4 RS07005 WP 021143809.1  ..MKKSKWLALAGVALLSVGALAACSSKSSTSGTTYGYVYNSDPESLDYITSNTGPTKTAVTNGVDGLMEADKYGNLVPSVAEDW   83
NTDB id 324 STU RS16140 WP 011226306.1     ..MKKSKWLALAGVALLGVGVLAACSSKSNTSGTTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLVPSVAEDW   83
NTDB id 292 STER RS06940 WP 011681419.1    ..MKKSKWLALAGVALLGVGVLAACSSKSNTSGTTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLVPSVAEDW   83
consensus                                   **!!!*!*!!!**!***!*!******! !***!!*!!!*!!!**!*!***!***!***!*!*!!!!*!*!*!!!**!!*!!!!

logo
NTDB id 95280 QML92 RS06555 WP 000748880.1  TVSQDGLTYTYKLRKDAKWFTSEGEEYAPVTAQDFVTGLQYAADKKSEALYLVQDSVAGLDDYITGKTSDFSTVGVKALDDQTVQ  169
NTDB id 475 HSISS4 RS07005 WP 021143809.1  SVSQDGLTYTYKIRKGVKWYTSDGEEYADVTAKDFVTGLKHAADGKAGALYLVQDSIAGLSDYLSGANKDFSNVGVKAIDDYTLQ  168
NTDB id 324 STU RS16140 WP 011226306.1     SVSKDGLTYTYKIRKGIKWYTSEGEEYANVTAKDFVTGLKHAADSKAGGIYLVQDSIAGLSDYLSGTNKDFSNVGVKAIDEYTLQ  168
NTDB id 292 STER RS06940 WP 011681419.1    SVSKDGLTYTYKIRKGIKWYTSEGEEYANVTAKDFVTGLKHAADSKAGGIYLVQDSIAGLSDYLSGTNKDFSNVGVKAIDDYTLQ  168
consensus                                  *!! !!!!!!!!*!!**!!*!!*!!!!!*!!!!*!!!!!!**!!!*!****!!!!!!*!!!*!!**!***!!!*!!!!!*!**!*!

logo
NTDB id 95280 QML92 RS06555 WP 000748880.1  YTLVKPELYWNSKTLATILFPVNADFLKSKGDDFGKA.DPSSILYNGPFLMKALVSKSAIEYKKNPNYWDAKNVFVDDVKLTYYD  253
NTDB id 475 HSISS4 RS07005 WP 021143809.1  YTLKKPEPYWNSKTTYGLLSPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELTKNENYWDKKNVHFDAIKLSYYD  253
NTDB id 324 STU RS16140 WP 011226306.1     YTLKQPEPYWNSKTTYSLLFPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELVKNEHYWDKKNVHFDAIKFSYYD  253
NTDB id 292 STER RS06940 WP 011681419.1    YTLKQPEPYWNSKTTYSLLFPVNEDFLKNKGKDFGKSTDPTSILYNGPFLLKSLTAKSSIELVKNEHYWDKKNVHFDAIKFSYYD  253
consensus                                  !!!* !!*!!!!!!****!*!!!*!!!!*!!*!!!!**!!*!!!!!!!!!*!*!**!!*!!**!!**!!!*!!!**!**! *!!!

logo
NTDB id 95280 QML92 RS06555 WP 000748880.1  GSDQESLERNFTAGAYTTARLFPNSSSYEGIKEKYKNNIIYSMQNSTSYFFNFNLDRKSYNYTSKTSDIEKKSTQEAVLNKNFRQ  338
NTDB id 475 HSISS4 RS07005 WP 021143809.1  GSDQEALERGFTDGAYSLARVYPTSSNYSSVEKKYKDNIYYTAPGASTSAIGVNIDRQSYKFSAKKTDAEKTSTKKALLNKDFRQ  338
NTDB id 324 STU RS16140 WP 011226306.1     GSDQDALVRGFTDGAYNFARVFPTSSNYASVEKKYKDNIYYTAPGASTSAIGINLDRQSYKYTAKKTDSEKSSTKKALLNKDFRQ  338
NTDB id 292 STER RS06940 WP 011681419.1    GSDQDALVRGFTDGAYNFARVFPTSSNYASVEKKYKDNIFYTAPGASTSAIGINIDRQSYKYTAKKTDSEKSSTKKALLNKDFRQ  338
consensus                                  !!!!**! !*!!*!!!**!!**!*!!*!*****!!!*!!*!*!************!*!!*!!****!**!*!!*!!**!*!!!*!!!

logo
NTDB id 95280 QML92 RS06555 WP 000748880.1  AINFAFDRTSYGAQSEGKEGATKILRNLVVPPNFVSIKGKDFGEVVASKMVNYGKEWQGINFADGQDPYYNPEKAKAKFAEAKKE  423
NTDB id 475 HSISS4 RS07005 WP 021143809.1  SINFAIDRTAYQSQMNGKDGAALALRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWSGVNFTDGQDGLYNAEKAKTEFAKAKET  423
NTDB id 324 STU RS16140 WP 011226306.1     AINFAIDRKAYQSQINGKDGATLAVRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWSGVNFADSQDGLYNAEKAKTEFAKAKDA  423
NTDB id 292 STER RS06940 WP 011681419.1    AINFAIDRKAYQSQINGKDGATLGVRNLFVPSDFVSAGDKTFGDLVTEKMSSYGDEWSGVNLADSQDGLYNAEKAKTEFAKAKDA  423
consensus                                  *!!!!*!! *!**!**!!*!!****!!!*!!**!!!***!*!!**!**!!**!!*!!*!*!**! !!**!!*!!!!**!!*!!**

logo
NTDB id 95280 QML92 RS06555 WP 000748880.1  LEAKGVQFPIHLDKTVEVTDKVGIQGVSSIKQSIESVLGSDNVVIDIQQLTSDEFDSSGYFAQTAAQKDYDLYHG.GWGPDYQDP  507
NTDB id 475 HSISS4 RS07005 WP 021143809.1  LQADGVQFPIHLDLPVDQSSKINVAQAQSLKQTIEQSLGSDNVVIDVNQLSSDDIQNATLNAANAAAEDWDISNGVIWGPDYQDP  508
NTDB id 324 STU RS16140 WP 011226306.1     LQADGVQFPIHLDLPVDQSSKLNVAQAQSLKQTIEKSLGSENVVIDINQLSSDDLENVTLNAANAAAEDWDISNSVAWAPDYQDP  508
NTDB id 292 STER RS06940 WP 011681419.1    LQADGVQFPIHLDLPVNQSSKLNVAQVQSLKQTIEKSLGSENVVIDINQLSSDDLENATLNAANAAAEDWDISNSVGWAPDYQDP  508
consensus                                  !*!*!!!!!!!!!!**!****!***** *!*!!*!!**!!!*!!!!!**!!*!!********!**!!**!*!*** **!*!!!!!!
```

```
logo

NTDB id 95280 QML92 RS06555 WP 000748880.1  STYLDIFNTNSGGVLQNLGLEPGEANDKAKEVGLDVYTQMLEEANK.EQDPAKRYEKYADIQAWLIDSSLVLPSV.SRGCTPSLR   590
NTDB id 475 HSISS4 RS07005 WP 021143809.1   STYLDIFKTTSSENTKTFMGYDDPNNAAAAQVGLKDYDALLDSAASETTDLNARYDRYAQAQAWLEDSSLVIPLTVGNGAAPVIS   593
NTDB id 324 STU RS16140 WP 011226306.1      STYLDIFKTTSSENTKAFMGYDDPNNAAAAQVGLKDYDALLNSAASETSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPAIS   593
NTDB id 292 STER RS06940 WP 011681419.1     STYLDIFKTTSSENTKAFMGYDDPNNAAAAQVGLKDYDALLNSAASETSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPVIS   593
consensus                                   !!!!!!!*!*!**************!**!**!!!**!***!**!*****!***!!**!!**!!!!*!!!!!*!*****!**!***

logo

NTDB id 95280 QML92 RS06555 WP 000748880.1  RTVPFAAAYGLTGTKG..IESYKYLKVQDKIVTTDEYAKAREKWLKEKEESNKKAQEELAKHVK   652
NTDB id 475 HSISS4 RS07005 WP 021143809.1   RLTPFTGASMQVGDKNS.SDYFKYVKPQEKVVTKKEYEQSREKWLKEKKASNEKAQKDLEKHVK   656
NTDB id 324 STU RS16140 WP 011226306.1      RLTPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSREKWLKEKKESNEKAQKDLEKHVK   657
NTDB id 292 STER RS06940 WP 011681419.1     RLTPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSREKWLKEKKESNEKAQKDLEKHVK   657
consensus                                   !**!!**!****!*!*******!!*!*!*!*!!**!!***!!!!!!!**!!*!!!**!*!!!!
```

X non conserved

X similar

X ≥ 50% conserved