```
logo
NTDB id 113876 Q426 RS00305 WP 014623464.1  MKKSKWLTTLGVAALSVSILAACGNSSSKSSESKIYSYVYSSDPSTLDYISTSKATTNEITTNAVDGLLENDQYGNLIPSLAKDW   85
NTDB id 475 HSISS4 RS07005 WP 021143809.1  MKKSKWLALAGVALLSVGALAACSSKSST..SGTTYGYVYNSDPESLDYITSNTGPTKTAVTNGVDGLMEADKYGNLVPSVAEDW   83
NTDB id 324 STU RS16140 WP 011226306.1     MKKSKWLALAGVALLGVGVLAACSSKSNT..SGTTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLVPSVAEDW   83
NTDB id 292 STER RS06940 WP 011681419.1    MKKSKWLALAGVALLGVGVLAACSSKSNT..SGTTYGYVYSSDPETLDYITSNTGPTKSVVTNGVDGLMEADKYGNLVPSVAEDW   83
consensus                                  !!!!!!!***!!!*!  !**!!!!***!  *  ****!*!!!*!!!**!!!!******!****!!*!!!!*!*!*!!!!*!!*!*!!

logo
NTDB id 113876 Q426 RS00305 WP 014623464.1  KVSKDGLTYTYTLRDGIKWYTSDGEEYADVTAEDFVAGVKHAADVNSDALYIIQDSIKGLNDYLNGKTKDFSTVGVKALDKKTVQ  170
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 113876 Q426 RS00305 WP 014623464.1  YTLNQPESFWNSKLTYSVLAPVNADFLKSKGKDFGKATDPSSILYNGPFLITALTSKSSIELVKNENYWNAKNVHLDGVQLTYYD  255
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 113876 Q426 RS00305 WP 014623464.1  GQDQESLFRNFDDGAYSAARLFPTTPSYKTVKKKYGDSITYGQQNATLYYAAFNLNRTSYNHTKKTSDSQKSDTQKAILNKDFRQ  340
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 113876 Q426 RS00305 WP 014623464.1  AMTFAFDRIAYQAQSAGEDAANKSLRSTLVPPTFVQIGNKNFGDVVEEHLVTYGSQWENVNLDDAQDGLYNPEKAKASFEKAKAA  425
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 113876 Q426 RS00305 WP 014623464.1  LQAEGVQFPIHLDYPMDQTATVLLQQARSMKQSIEKTLGTDNVVIDIIELQRDVYENISYLAETPAQNDWDISTASGWGPDYVDP  510
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 113876 Q426 RS00305 WP 014623464.1   SSYLDIFNPALANSQTKSIGLEPGKDLAIASAAGLDEFTKLVTEAGKITDDLNARYTLYAKAQAALTDSAIYIPT.ISLGGTPRV   594
NTDB id 475 HSISS4 RS07005 WP 021143809.1    STYLDIFKTTSSENTKTFMGYDDPN.NAAAAQVGLKDYDALLDSAASETTDLNARYDRYAQAQAWLEDSSLVIPLTVGNGAAPVI   592
NTDB id 324 STU RS16140 WP 011226306.1       STYLDIFKTTSSENTKAFMGYDDPN.NAAAAQVGLKDYDALLNSAASETSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPAI   592
NTDB id 292 STER RS06940 WP 011681419.1      STYLDIFKTTSSENTKAFMGYDDPN.NAAAAQVGLKDYDALLNSAASETSDLNVRYDRYAQAQAWLEDSSLVIPLTVGNGAAPVI   592
consensus                                    !*!!!!!***********!***** *!*!***!!*****!***!***!*!!! !!**!!*!!!*!*!!***!!*****!**!**

logo
NTDB id 113876 Q426 RS00305 WP 014623464.1   TKVVPFSGAFAWAGTKG..DTYYKYVKLQDKPVTAKQYDKALAEWKKEKKKSNEKYNNSLEKHIEK   658
NTDB id 475 HSISS4 RS07005 WP 021143809.1    SRLTPFTGASMQVGDKNS.SDYFKYVKPQEKVVTKKEYEQSREKWLKEKKASNEKAQKDLEKHVK.   656
NTDB id 324 STU RS16140 WP 011226306.1       SRLTPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSREKWLKEKKESNEKAQKDLEKHVK.   657
NTDB id 292 STER RS06940 WP 011681419.1      SRLTPFTGASLQVGDKNSSNDYIKYVKPQEKVVTKKEYEQSREKWLKEKKESNEKAQKDLEKHVK.   657
consensus                                    ****!!*!!****!*!*****!*!!!!*!*!*!!*!*!******!*!!!!*!!!!****!!!!**
```

X non conserved

X similar

X $\geq$ 50% conserved