```
logo

NTDB id 1021 ACIAD RS00975 WP 004930462.1       MITILSSHHYHTIKVWYVLQHSLSGFKKLIHYFGDCETALQPQRLSDWQKLGLHANHLKRLEEVHTLQGQQQFEKMLAQL    80
NTDB id 313108 AhaeAN4 RS16090 WP 115736207.1   MLNQLLPHHYSTVLVWYLVQHSLSSFQKIIDYFGDCEQATQTERFSEWQQLGLHANHLKRLAEFQTPEGQQQFAQLVKLI    80
NTDB id 1043 HON27 RS16615 WP 168727007.1       MLTQLSSHQYHTLKVWYLVQHSLVSFKKIIDYFGNCEKATQPDGLAKWSSLGLHANHLKRVNEFQTPQGQAQFEQLVQQV    80
NTDB id 1073 ABD1 RS00865 WP 015451369.1        MLTQLSSHHYHTLKVWYLVQHSLVSFKKIIDYFGNCEKATQPDGLAKWSSLGLHANHLKRVNEFQTTQGQAQFEQLVQQV    80
consensus                                       !***!**!*!*!**!!!**!!!! *!*!*!*!!! !!*!*!** * *! *!!!!!!!!!!**!**!**!! !!*******

logo

NTDB id 1021 ACIAD RS00975 WP 004930462.1       QTHTDFIVTPDDPAYPSQLIPYQDRPPILFGQGSIQSLIQPQIAVVGSRKPSPHGRQVAYDFSYFLSEKGFYITSGLAHG   160
NTDB id 313108 AhaeAN4 RS16090 WP 115736207.1   CQHSDFILTPQDIGYPTQLLPYSDHPPILFGQGNPHALLQPQIAMVGSRKPSPHGRQVAYDFAYYLSEKGFYISSGLAHG   160
NTDB id 1043 HON27 RS16615 WP 168727007.1       RQHTDFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQPQIAIVGSRKPSPHGRQVAYDFAYYLSEKGFFISSGLAYG   160
NTDB id 1073 ABD1 RS00865 WP 015451369.1        RQHTDFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQPQIAIVGSRKPSPHGRQVAYDFAYYLSEKGFFISSGLAYG   160
consensus                                       **!*!!!*!!*!**!!*!!*!!*!*!!!*!! !****!*!!!!!*!!!!!!!!!!!!!!!!!!*!*!!!!!!*!*!!!!*!

logo

NTDB id 1021 ACIAD RS00975 WP 004930462.1       IDEAAHQGSLVHHRAIAVVGTGLDLCYPSGNKALKQHIRDQGGAIVSEFLPGTPPLQAHFPRRNRIVSGLSLGVLVVEAT   240
NTDB id 313108 AhaeAN4 RS16090 WP 115736207.1   IDHAAHQGGLVHQRTIAVVGTGLDRVYPTQHVQLAQQ.IAQSGAIISEFLPSTMPLQQHFPRRNRIVSGLSLGVVVVEAA   239
NTDB id 1043 HON27 RS16615 WP 168727007.1       IDEAAHQGASTHQRTIAVTGTGLDTTYPAQNKKLAEHILAKNGAIITEFLPGTPPLQQHFPRRNRIVSGLSLGVLVVEAT   240
NTDB id 1073 ABD1 RS00865 WP 015451369.1        IDEAAHQGASAHQRTIAVTGTGLDTTYPAQNKKLAEYILAQNGAIITEFLPGTPPLQQHFPRRNRIVSGLSLGVLVVEAT   240
consensus                                       !!*!!!!!* *!*!*!!! !!!!!**!!*****!* ******!!!**!!!!*!*!!!*!!!!!!!!!!!!!!!!!*!!!!*

logo

NTDB id 1021 ACIAD RS00975 WP 004930462.1       LKSGSLITANKAAEQGKVVFAIPGHIYSEFHQGCHQLIREGAILVDHPEQIIEDLALPTHWHSQSTASGEANADDSGKTD   320
NTDB id 313108 AhaeAN4 RS16090 WP 115736207.1   IKSGSLITANQAASQGKMVFAIPGHIYSEHHQGCHQLIREGAILVDHPEQVIEDLALPTQWQSEQQSSE......KSSNA   313
NTDB id 1043 HON27 RS16615 WP 168727007.1       LKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALPTQWQSQQQNQTE.....ETNTN   315
NTDB id 1073 ABD1 RS00865 WP 015451369.1        LKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALPTQWQSQQQNQTE.....EANTN   315
consensus                                       *!!!!!!!!!*!!*!!!*!!!!!!!!!!!!*!!!!!!!!!!!!!!!*!!!!!*!!!!!!!*!*!**** **      * ***

logo

NTDB id 1021 ACIAD RS00975 WP 004930462.1       DADLPDDLLPLYQLLDWQGQDLDQLAQHYQGSTAELTAQLMELELLGVCIQQSGRYLRCRSPY   383
NTDB id 313108 AhaeAN4 RS16090 WP 115736207.1   APSLPSHLVGLYQCLDWVGQDIDQLTQQQQSNIAELTSHLMELELLGLCTQQGGRYLRCRPML   376
NTDB id 1043 HON27 RS16615 WP 168727007.1       TPEIPEHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLYLRCRS..   376
NTDB id 1073 ABD1 RS00865 WP 015451369.1        TPEIREHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLYLRCRS..   376
consensus                                       *******!**!!!*!!!*!! *!!!* ****** !!!**!!!!!!!!!*!*!!*! !!!!!*
```

X non conserved

X similar

X $\geq$ 50% conserved