```
logo
NTDB id 39116 OCEPR RS04090 WP 013457440.1  ........MPLYHYRAKDRQGRSIAATIEADDIRTAAKILREKGYFISELKEPGKGLQAEIKIPGLERGPGLKDVAIFSRQLATM   77
NTDB id 1029 TT RS02230 WP 011228203.1      ........MPVYQYKARDRQGRLVEATIEAEDLRTAARLLRDRGLFVAEIKEPGKGLQAEVRIPALERGPGLKDLAIFSRQLATM   77
NTDB id 1252 GCO85 RS07730 WP 011213805.1   .MDKNSPPLLTFHYQGINKAGQKMEGDIQARSLAIAKADLRKQGIVTNKVVKKRKPLFDR.K....NKKITQADITVFSRQLATM   79
NTDB id 1198 PSJM300 03950 AFN76868.1       .MAQKAIKNSVFTWEGLDRQGAKIKGELSGVSPALVKAQLRKQGINPQKVRKKSISLFS..A....GKKIKPMDIALFTRQMATM   78
NTDB id 1016 ACIAD RS01680 WP 004920476.1  MAAKKTQVMPVFAYEGVDRKGIKLKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGLL....KKKVKPLDIAIFTRQLATM   81
NTDB id 1059 ABD1 RS01610 WP 000279215.1   MAVKKAQMMPTFAYEGVDRKGVKIKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEGLF....KKKVTTLDITIFTRQLATM   81
consensus                                     **** * **** ! ** *** *  ***** !!**!* *  **** * *   *      ***   !***!*!!*!!!

logo
NTDB id 39116 OCEPR RS04090 WP 013457440.1  LSAGLPIVQAIAILERQTENKAFQKLLKEIRTDVEGGSSFSDALTKHK.VFSRLYVNLVRAGETSGTLDGVLDRLATFLEKDLEL  161
NTDB id 1029 TT RS02230 WP 011228203.1      LGAGLTLLQALAILERQTENRKFREILKQVRTDVEGGMAFSEALSKHK.IFSRLYVNLVRAGETSGGLDLILDRLASFLEKELEL  161
NTDB id 1252 GCO85 RS07730 WP 011213805.1   IESGIPLVQAFDIVAKGQSNKRLKDLIETIKHDIETGLTLAESLIKHPLYFNELFCNLVDAGEKSGSLDIMLDKVATYKEKIEII  164
NTDB id 1198 PSJM300 03950 AFN76868.1       MKAGVPLLQSFDIIGEGFDNPNMRKLVDDLKQEVAAGNSFASSLRKKPQYFDDLYCNLVDSGEQSGSLETLLDRVATYKEKTEAL  163
NTDB id 1016 ACIAD RS01680 WP 004920476.1  MKAGVPLVQAFEIVAEGLENPAMRDVVLGLKNEVEGGNTFAGALRKYPQYFDNLFCSLIESGEQSGSLEIMLDRVAVYKEKSEVL  166
NTDB id 1059 ABD1 RS01610 WP 000279215.1   MKAGVPLVQGFEIVAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNLFCSLVESGEQSGALETMLDRVAIYKEKSELL  166
consensus                                  * *!****!***!** * *!  *****  ** ****! *** *! ! *  !  !***!** !! !!*!* *!!**!***!! * *

logo
NTDB id 39116 OCEPR RS04090 WP 013457440.1  RGKIKSAMTYPVIVLVFALLVTYFLLTGIVPQFAQILTDLGSELPLLTRFLITVSDILRNGTLYLIVVAVIVGFAYRAYY...RT  243
NTDB id 1029 TT RS02230 WP 011228203.1      RGKIRSAMTYPVIVFVFAVGVAYFLLTGIVPQFAQILTDLGSELPLLTRFLIAVSDLLRAATLPLLLLAVALFFAYRWYY...GT  243
NTDB id 1252 GCO85 RS07730 WP 011213805.1   KKKIKKALTYPIAVMVVALLVTAGLLIYVVPQFESLFKGFGADLPAMTRAVITMSEFMQAYWY..IIFGALGGVVYSFFYAKNHS  247
NTDB id 1198 PSJM300 03950 AFN76868.1       KAKIKKAMNYPIAVVLVAVIVTAILLIKVVPQFQDVFANFGAELPAFTLMVIGLSEALQAWWY..VVLAGFVGAAYAFKQAHTRS  246
NTDB id 1016 ACIAD RS01680 WP 004920476.1  KQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFGADLPAFTQLVVNMSNWMQDYWF..ILILVIGAAIAGFLEARKRS  249
NTDB id 1059 ABD1 RS01610 WP 000279215.1   KQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFQDLFASFGADLPAFTQMVVNMSKWMQEYWF..IMIIAIGAVIAAFLEAKKRS  249
consensus                                  * !!**!* !!* !***!**!*  !** *!!*!  **  *!**!!* !  ** *!* ** ***  **** * *  * *  *  **

logo
NTDB id 39116 OCEPR RS04090 WP 013457440.1  ERGRRVVDRIKLRMPVFGNLNKKSALARFSRTFGLLVSSGVNVIEAMDITRGTAGNAIIEDILEETKEAIQVGEPIHSTLLRYPQ  328
NTDB id 1029 TT RS02230 WP 011228203.1      PQGRRVIDRLKLRLPVFGNLNRKTAVARFSRTLALLLSSGVNIVEALDITKGTAGNSVVEEIVEAAKLKIQQGDPLNLTLAQHPF  328
NTDB id 1252 GCO85 RS07730 WP 011213805.1   LEFAQTIDRVMLKLPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSVAGATGNIIYAKATDKIREEVATGQQMFIAM.ENTH  331
NTDB id 1198 PSJM300 03950 AFN76868.1       EKFRNWFDRLMLKVPVVGDILYKSSVARFARTLSTTFAAGVPLVDALDSVAGATGNVVFRSATNKIKSDVSSGMQLNFSM.RTTG  330
NTDB id 1016 ACIAD RS01680 WP 004920476.1  KRFRDQLDRLVLRLPIVGDLVYKAIIARYSRTLATTFAAGVPLIDALASTAGATNNTVYEQAVLKIREDVSTGQQLNFAM.RVSN  333
NTDB id 1059 ABD1 RS01610 WP 000279215.1   KKFRDGLDKLALKLPIFGDLVYKAIIARYSRTLATTFAAGVPLIDALESTAGATNNVIYEKAVMKIREDVATGQQLQFAM.RISN  333
consensus                                   ***  *!** !**!* ! ** !  *!!**!!** ****!*****!*****!***! *** ** ****** *! ***  * * *

logo
NTDB id 39116 OCEPR RS04090 WP 013457440.1  VFPPMVASMIAIGEETGALDTMLQKIADFYEREVDEAVASLTAAIEPIMIIFLGAIVGTIVAGMFLPLFQIINTLSAG  406
NTDB id 1029 TT RS02230 WP 011228203.1      VFPPMVSSMVAIGEETGALDTMLSKVADFYEREVDEAVASLTAAIEPLMIIFLGVIVGMIVAGMFLPLFKIIGTLSVQ  406
NTDB id 1252 GCO85 RS07730 WP 011213805.1   LFPNMVIQMVAIGEESGALEKMLSKVADFYEEEVNNAVDALSSLLEPIIMSILGILVGGLVVAMYLPIFKLGSAV...  406
NTDB id 1198 PSJM300 03950 AFN76868.1       TFPSMAVQMTAIGEESGALDEMLSKVATFYEDEVDNMVDGLTALMEPMIMAVLGVLVGGLIIAMYLPIFQMGSVV...  405
NTDB id 1016 ACIAD RS01680 WP 004920476.1  RFPTMAIQMVAIGEESGALDEMLDKVANYYESEVDHAVDGLTSMMEPLIMAILGILVGGLVIAMYLPIFQMGSVV...  408
NTDB id 1059 ABD1 RS01610 WP 000279215.1   RFPSMAIQMVAIGEESGALDSMLDKVATYYENEVDNAVDGLTSMMEPLIMAILGVLVGGLVIAMYLPIFQMGSVV...  408
consensus                                   !! ! **!*!!!!!*!!!* !! !*! *!! !!* *!**!* **!!*** *!!**!!*****!*!!*!**** *
```

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