logo



```
NTDB id 1094 KZH42 RS01320 WP 002224767.1  MTEDERFAWLQLAFTPYIGAESFLLLMRRFGSAQNALSAPAEQVAALIRHKQALEAWRNAEKRALARQAAEAALEWEMRD  80
NTDB id 1089 NMB RS00600 WP 002224767.1    MTEDERFAWLQLAFTPYIGAESFLLLMRRFGSAQNALSAPAEQVAALIRHKQALEAWRNAEKRALARQAAEAALEWEMRD  80
NTDB id 1120 NGFG RS10355 WP 020997408.1   MTEDERFAWLQLAFTPYIGAESFLLLMRSFGSAQNALSAPAEQVAPAVRHKHALEAWRNAEKRALARQAAEAALEWEMRD  80
NTDB id 1122 OK783 RS09595 WP 003705341.1  MTEDERFAWLQLAFTPYIGAESFLLLMRSFGSAQNALSAPAEQVAPAVRHKHALEAWRNAEKRALARQAAEAALEWEMRD  80
NTDB id 1466 ASU2 RS09750 WP 015674213.1   MSQT...DLLKLLQIPQLGAQRIARLLSEVDFAQFCQYDKR.QLQQIGWNEKQIQRWFNPEK.....RWIESALAWAEQP  71
NTDB id 1152 A1552VC RS00200 WP 000654772.1 MKDQDLAAWLALCFTPKLGSKTISHLLATRLPAQLQSFTPK.QWLACGLKPEQLVFLTTQAA.....KQAEQCLQWRSAA  74
consensus                                  !********!*!***!**!******!** ***!!********!**  **** ********************!**!*!****
```

logo



```
NTDB id 1094 KZH42 RS01320 WP 002224767.1  GCRL.MLLQDEDFPEMLTQGLTAPPVLFLRGNVQLLHKPSAAIVGSRHATPQAMRIAKDFGKSLGGKGIPVVSGMASGID 159
NTDB id 1089 NMB RS00600 WP 002224767.1    GCRL.MLLQDEDFPEMLTQGLTAPPVLFLRGNVQLLHKPSAAIVGSRHATPQAMRIAKDFGKSLGGKGIPVVSGMASGID 159
NTDB id 1120 NGFG RS10355 WP 020997408.1   GCRL.MLLQDEDFPEMLTQGLTAPPVLFLRGNVRLLHKPSAAIVGSRHATPQAMRIAKDFGRALGGKGIPTVSGMASGID 159
NTDB id 1122 OK783 RS09595 WP 003705341.1  GCRL.MLLQDEDFPEMLTQGLTAPPVLFLRGNVRLLHKPSAAIVGSRHATPQAMRIAKDFGRALGGKGIPTVSGMASGID 159
NTDB id 1466 ASU2 RS09750 WP 015674213.1   NQRL.LTLFDEEYPFLLRQISTAPPVLFVRGSISSLSLPQIAIVGSRDFSAYGEYWAGYFSEQLIKHHLAVTSGLAIGID 150
NTDB id 1152 A1552VC RS00200 WP 000654772.1 NNRYIVTPHCPLYPRLLKEINSSPPVLFIEGIWEAVHDPAVAIVGSRNASVDGRQIARQFATELAQSGLVVTSGLALGID 154
consensus                                  **!* ********!**!******!!!!!**!** ****!**!!!!!!*********!**!** !*********!!*!*!!!
```

logo



```
NTDB id 1094 KZH42 RS01320 WP 002224767.1  TAAHQGALQAEGGTIAVWGTGIDRIYPPVNKNLAYEIAEK.GLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVEAAL 238
NTDB id 1089 NMB RS00600 WP 002224767.1    TAAHQGALQAEGGTIAVWGTGIDRIYPPVNKNLAYEIAEK.GLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVEAAL 238
NTDB id 1120 NGFG RS10355 WP 020997408.1   TAAHQGALEAEGGTIAVWGTGIDRIYPPANKNLAYEIAEK.GLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVEAAL 238
NTDB id 1122 OK783 RS09595 WP 003705341.1  TAAHQGALEAEGGTVAVWGTGIDRIYPPANKNLAYEIAEK.GLIVSEFPIGTRPYAGNFPRRNRLIAALSQVTLVVEAAL 238
NTDB id 1466 ASU2 RS09750 WP 015674213.1   GFCHQRAVAEQGITIAVLGSGLDQVYPARHKKLAEQIVESGGALVSEFFPNHPPLAENFPRRNRIISGLSLGTLVVEATV 230
NTDB id 1152 A1552VC RS00200 WP 000654772.1 GYAHDGALQAQGQTVAVLGSGLAQVYPKQHQGLAERIIAQ.GALVSEFAPHTPPKADHFPRRNRIISGLSLGVVVVEAAE 233
consensus                                  ***!**!* **!*!*!!!*!*!*****!!* ***!!**!*** !**!!!!*****!*!*!**!!!!!!*!**!!****!!!!** 
```

logo



```
NTDB id 1094 KZH42 RS01320 WP 002224767.1  ESGSLITARLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLVECLDDILNECPGLLQNTGASSYSINKGIPEKRI..T 316
NTDB id 1089 NMB RS00600 WP 002224767.1    ESGSLITARLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLVECLDDILNECPGLLQNTGASSYSINKGIPEKRI..T 316
NTDB id 1120 NGFG RS10355 WP 020997408.1   ESGSLITAGLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLTECLDDILNECPGLLQNTGASSYSINKDTPDTGR..R 316
NTDB id 1122 OK783 RS09595 WP 003705341.1  ESGSLITAGLAAEMGREVMAVPGSIDNPHSKGCHKLIKDGAKLTECLDDILNECPGLLQNTGASSYSINKDTPDTGR..R 316
NTDB id 1466 ASU2 RS09750 WP 015674213.1   NSGSLITARYALEQGREVFALPNSVQNPYAQGCHKLIKEGAVLTETIEDILQAIQYQLP.........DQ.PRQQALFE 299
NTDB id 1152 A1552VC RS00200 WP 000654772.1 KSGSLITARYAAEQGREVFVVPGSIFNAASQQGSNQLIRQGACLVQSVQQIHQELKNALT......WSLSEQVPYQATLFS 307
consensus                                  *!!!!!!!**!*!*!!!!***!*!**!****!***!!**!!*!  *****!*******!************  !*
```

logo



```
NTDB id 1094 KZH42 RS01320 WP 002224767.1  AVQTASDQLSLPEGKMPS.......EKTENRPVGGSILDRMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPG 389
NTDB id 1089 NMB RS00600 WP 002224767.1    AVQTASDQLSLPEGKMPS.......EKTENRPVGGSILDRMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPG 389
NTDB id 1120 NGFG RS10355 WP 020997408.1   TVQTAY..APPPAAKMPS.......EGAAGGTAVGGILDKMGFDPIHPDVLAGQLAMPAADLYAALLELELDGSVAAMPG 387
NTDB id 1122 OK783 RS09595 WP 003705341.1  AVQTAY..APPPAAKMPS.......EGAAGGTAVGGILDKMGFDPVHPDVLAGQLAMPAADLYAALLELELDGSVAAMPG 387
NTDB id 1466 ASU2 RS09750 WP 015674213.1   TEQAVEKTQFFAKANMPNKVNHFAKKLPEMTACQQQIVEHIGLNPISIDDLAKATALEVETLLVELLGLELLSVIKQVSG 379
NTDB id 1152 A1552VC RS00200 WP 000654772.1 AVQSD.....................EELPFPELLANVGIEATPIDILASRTQIPVQDIMMQLLELELLGHVVAVPG 363
consensus                                  **!**       * *****        *        * *****!******!*!!**************!!*!!!********!
```

logo 

```
NTDB id 1094 KZH42 RS01320 WP 002224767.1     GRYQRIRT   397
NTDB id 1089 NMB RS00600 WP 002224767.1       GRYQRIRT   397
NTDB id 1120 NGFG RS10355 WP 020997408.1      GRYQRIRT   395
NTDB id 1122 OK783 RS09595 WP 003705341.1     GRYQRIRT   395
NTDB id 1466 ASU2 RS09750 WP 015674213.1      GYVRQ...   384
NTDB id 1152 A1552VC RS00200 WP 000654772.1   GYIRKGRG   371
consensus                                     !*******
```

X non conserved

X similar

X ≥ 50% conserved