logo



```
NTDB id 1361 HI 0985 AAC22646.1          ....MNDITYTLLRLMQVPKLGGVGIDKILSNITLNELLNYDDVAFRQMGWGAIQIRRWFKPEAK.....FIEPALVWSQ   71
NTDB id 199306 BG565 RS12310 WP 006251919.1  .....MAYQYDLLRLL.QVQIGPQRIGRLLAELDFAEFCAYDKTQLRQIGWNEKQIQRWFNPDKN.....WIEQALTWAE   69
NTDB id 1388 A4U84 RS04945 WP 062924099.1    .....MTHLTKLLALLQVPQLGAQRIGRLLSEVDFGEFCQYDKTALKQMGWNERQIQRWFNPEHK.....WIDQALQWAE   70
NTDB id 1250 GCO85 RS13065 WP 027219989.1    .....MNNLQPLLALNRMKRIGPRTVLKLQK.RWPDLNLMF...QLSSVDLEEAGLPSWLAQTIKNFDPDFIKTDLNWLS   71
NTDB id 1399 DSB67 RS15600 WP 010645755.1    MTPQNDIDLAAWLKLSCLPGIGGVKMNKLLSKDTPSNIVQYSTEQLQLLGLTAKQLQAW.SQVDK.....EVDACLTWVA   74
NTDB id 1152 A1552VC RS00200 WP 000654772.1  ...MKDQDLAAWLALCFTPKLGSKTISHLLATRLPAQLQSFTPKQWLACGLKPEQLVFLTTQAAK.....QAEQCLQWRS   72
consensus                                                *  *! !  ** *!   * ***          *   **  **    **  *     *     ***  ! !
```

logo



```
NTDB id 1361 HI 0985 AAC22646.1          K.EGNHLVNYFSPFYPFLLKQTASFPPLLFVKGNLTALSQRQMAMVGSRYCTTYGEYWAKHFATELSLAGFTITSGLALG   150
NTDB id 199306 BG565 RS12310 WP 006251919.1  Q.PNQQILSLFDKAYPFLLRQISTAPPILFVKGNVESLSLPQIAIVGSRDYSPYGEYWAGQFAADLVKHNMAVTSGLAIG   148
NTDB id 1388 A4U84 RS04945 WP 062924099.1    Q.DQQQILTLFDEDYPFLLKQISTAPPVLFVRGNVESLSLPQIAIVGSRDYSHYGEHWAGHFSAELVKHQLAVTSGLAIG   149
NTDB id 1250 GCO85 RS13065 WP 027219989.1    SSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQPSLAIVGSRNASVTGNENARAFSRELSRHGVSIVSGLALG   151
NTDB id 1399 DSB67 RS15600 WP 010645755.1    ASSHHHILTLADALYPPLLKQTVAPPLLFVKGEASCLPQPQIAMVGSRNASVDGLQHTRTFASDLVQHDLIVTSGLALG   154
NTDB id 1152 A1552VC RS00200 WP 000654772.1  AANNRYIVTPHCPLYPRLLKEINSSPPVLFIEGIWEAVHDPAVAIVGSRNASVDGRQIARQFATELAQSGLVVTSGLALG   152
consensus                                       *  ***      !! !!*** * !**!***! *  ** ***!*!!!!  *  !   ** !* **  * * **!!!!*!
```

logo



```
NTDB id 1361 HI 0985 AAC22646.1          IDGHCHQAVVNIQGQTIAVLGSGLEQIYPSKHQRLSAQIIENNGALVSEFLPNQAPIAANFPRRNRIISGLSVGTLVVEA   230
NTDB id 199306 BG565 RS12310 WP 006251919.1  IDGFAHKKVVEYQGITIAVLGSGLNRIYPARHQKLAEQIVESGGALVSEFSPNQPPIAENFPRRNRIISGLSLGTLVIEA   228
NTDB id 1388 A4U84 RS04945 WP 062924099.1    IDGFCHQRAANENGITIAVLGSGLDQVYPARHKKLAEQIVETSGALVSEFFPSQPPIAENFPRRNRIISGLSLGTLVIEA   229
NTDB id 1250 GCO85 RS13065 WP 027219989.1    IDAHAHLGCLEGGGKTIAVLGTGLDCIYPRRHLKLAEQITE.NGLLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIEA   230
NTDB id 1399 DSB67 RS15600 WP 010645755.1    IDGHAHDGALLAGGKTIAVLGSGLEQVYPARHRGLAQRVAE.NGALVSEFRPDAKPRAENFPRRNRIISGLSLGVLVVEA   233
NTDB id 1152 A1552VC RS00200 WP 000654772.1  IDGYAHDGALQAQGQTVAVLGSGLAQVYPKQHQGLAERIIA.QGALVSEFAPHTPPKADHFPRRNRIISGLSLGVVVVEA   231
consensus                                    !!* *! * *  *! !*!!!!*!****!! *! *!*****  *!*!*!!! *  *!*!**!!*!!!!!!!!!** *!*!!
```

logo



```
NTDB id 1361 HI 0985 AAC22646.1          TEKSGSLITARYALEQNREVFAVPGNIQNKSSQGCHRLIKQGAMLVENAKDILETLYQHSIHSQTEIDFDQIAVPNYTP.   309
NTDB id 199306 BG565 RS12310 WP 006251919.1  TINSGSLITARYALEQGREVFALPNAVQNPYAQGCHKLIKEGALLVEGVEDILEAVASQYQPQQIP.LFDEPKPIVSTSL   307
NTDB id 1388 A4U84 RS04945 WP 062924099.1    TVNSGSLITARYALEQGREVFALPNSVQNPYSEGCHKLIKEGALLVENVEDILEAIAWQRQSVHI.....QPSLFDTKPK   304
NTDB id 1250 GCO85 RS13065 WP 027219989.1    AIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHHQ..........FT......   294
NTDB id 1399 DSB67 RS15600 WP 010645755.1    AEKSGSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLVQNTQEVLNEIQSLLDWSINQ.....SL.......   301
NTDB id 1152 A1552VC RS00200 WP 000654772.1  AEKSGSLITARYAAEQGREVFVVPGSIFNAASQGSNQLIRQGACLVQSVQQIHQELKNALTWSLSE.....QVP......   300
consensus                                      *!!!!!!!!!*!*!!*!*!***!******    !** !****!! !!  *  **** *
```

logo



```
NTDB id 1361 HI 0985 AAC22646.1          ...PPDPRR....LVEAPSHPKLYSRIGYTPVSIDDLAEEFNLSVDVLLVQLLDLELQDLIISENGLYKRV....   373
NTDB id 199306 BG565 RS12310 WP 006251919.1  QAVKSSEKFAKNPPNLTACQQQIYQHISLEPIAIDDLARATELTIETLLVELLGLELAGVIKQVSGGYVMDNGY.   381
NTDB id 1388 A4U84 RS04945 WP 062924099.1    QAVKSEPKFAKNLPELTACQQQLFEQISLEPISVDDLAKATDMAVETALIELLNLELLGVVKQVRGGYVIT....   375
NTDB id 1250 GCO85 RS13065 WP 027219989.1    ...SNKPIFSLASGK.....ENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER   361
NTDB id 1399 DSB67 RS15600 WP 010645755.1    ......DLFSAPIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKGRG.   369
NTDB id 1152 A1552VC RS00200 WP 000654772.1  ...YQATLFSAVQSDEELPFPELLANVGIEATPIDILASRTQIPVQDIMMQLLELELLGHVVAVPGGYIRKGRG.   371
consensus                                          *           **   **  *   *!  **   * * **  *** !**!!! * **  *  !*!**
```

X non conserved

X similar

X $\geq$ 50% conserved