```
NTDB id 1210 C694 RS01710 WP 001862983.1          MKSHFQYSTLENIPKAFDILKDPPKKLYCVGDTKLLDTPLKVAIIGTRRPTPYSKQHTITLARELAKNGAVIVSGGALGV   80
NTDB id 123307 UPTC16701 RS04570 WP 039618513.1   ...MK...FIENIEDFKNLLNPPSKIYYKGNLELLNA.RKVAIIGSRKMSVYTKNCLVELVTLLKKAKVSVVSGGALGV   72
NTDB id 1239 Cj0634 YP 002344063.1                MASEIL...PDEFLELFKDLKKPPKKLHYKGNLSLLKQ.DKIAIIGSRRMSVYTKNCVFSLASMLKNAHLCVVSGGALGV   76
consensus                                         * * *      ** ** !* !* !!*!****!** !!     !*!!!!*!****!*!******!***!***  * *!!!!!!!!
```

```
NTDB id 1210 C694 RS01710 WP 001862983.1          DIIAQENALPKTIMLSPCSLDFIYPTNNHKVIQEIAQNGLILSEYEKDFMPIKGSFLARNRLVIALSDVVIIPQADLKSG  160
NTDB id 123307 UPTC16701 RS04570 WP 039618513.1   DIQAAKIAYPQTIAIFANGLDEIYPKANTNEILNIYENALALSENEGNYKAKPYDFLLRNRLIIALSEVIIIAQADLKSG  152
NTDB id 1239 Cj0634 YP 002344063.1                DITASMAAMPNTIGIFANGLDQIYPRTNEKIIKQIYENALALSEYEDDYLPKNYDFLLRNRLVIALSKAVVVAQADIKSG  156
consensus                                         !! !   !*!*!!******!! !!!* ! **! *!**!*!*!!!*! ***** **!!*!!!!*!!!!******!!!*!!!
```

```
NTDB id 1210 C694 RS01710 WP 001862983.1          SMSSARLAQKYQKPLFVLPQRLNESDGTNELLEKGQAQGIFNIQNFINTLLKDYHLKEMPEMEDEFLEYCAKNPSYEEAY  240
NTDB id 123307 UPTC16701 RS04570 WP 039618513.1   SMQSARLALGMNKPIYVLPHRKNESEGTNLLLATKKANLIHDFDEFVK....MFGEFHQEQSEDDLLSFLKHEDDLEKVL  228
NTDB id 1239 Cj0634 YP 002344063.1                SMQSAKLALELNKPLYVLPQRLGESTATNLLLKENKAKLICDFKEFVS....EFASIDM..NQDEFLEFCKKGVSVDEAL  230
consensus                                         !!*!!*!!* **!!**!!!*!**!!**!!*!!    *!**!  ** *!*      ***  **    *!**!*****  ******
```

```
NTDB id 1210 C694 RS01710 WP 001862983.1          LKFGDKLLEYELLGKIKRINHIVVLA.   266
NTDB id 123307 UPTC16701 RS04570 WP 039618513.1   KKFGDRVYEYELEGLVEISGVKIRACL   255
NTDB id 1239 Cj0634 YP 002344063.1                KIYGQKVYEYELEGKISIEGLFIRVLA   257
consensus                                         ***!****!!!!*!** * ** ***
```

X non conserved
X similar
X ≥ 50% conserved