```
NTDB id 1210 C694 RS01710 WP 001862983.1          MKSHFQYSTLENIPKAFDILKDPPKKLYCVGDTKLLDTPLKVAIIGTRRPTPYSKQHTITLARELAKNGAVIVSGGALGV   80
NTDB id 155088 CPIN17260 RS07825 WP 078440838.1   ....MDFIDKQELPESLNRLKNPPKKLFYIGNKSLLKLP.KIAIVGSRKASVYTKNCVLQLASVLKNHGICVVSGGALGV   75
NTDB id 1239 Cj0634 YP 002344063.1                ...MASEILPDEFLELFKDLKKPPKKLHYKGNLSLLKQD.KIAIIGSRRMSVYTKNCVFSLASMLKNAHLCVVSGGALGV   76
consensus                                               **  ***** *  !! !!!!!***!* *!!* * !*!!*!*!* **!*!*****!!**!** ****!!!!!!!!
```

```
NTDB id 1210 C694 RS01710 WP 001862983.1          DIIAQENALPKTIMLSPCSLDFIYPTNNHKVIQEIAQNGLILSEYEKDFMPIKGSFLARNRLVIALSDVVIIPQADLKSG  160
NTDB id 155088 CPIN17260 RS07825 WP 078440838.1   DILAHIGAMPNTIGVFANGLDSIYPKTNEKTIREIYKHGLALSEYEPESLPVAYKFIQRNRIVVSLCDAVVIAQADIKSG  155
NTDB id 1239 Cj0634 YP 002344063.1                DITASMAAMPNTIGIFANGLDQIYPRTNEKIIKQIYENALALSEYEDDYLPKNYDFLLRNRLVIALSKAVVVAQADIKSG  156
consensus                                         !!*! **!*!*!!******!! !!!**!*!*!**!* **!*!!!!! ***!* * !* !!!*!**!***!***!!!*!!!
```

```
NTDB id 1210 C694 RS01710 WP 001862983.1          SMSSARLAQKYQKPLFVLPQRLNESDGTNELLEKGQAQGIFNIQNFINTLLKDYHLKEMPEMEDEFLEYCAKNPSYEEAY  240
NTDB id 155088 CPIN17260 RS07825 WP 078440838.1   SMQSAKMAYELGVPVYVLAQRYNESDGTNYLLANSKAKLIGDFNEFAASFGTTNYMQ..ESTTDEFLGFCKNGVSLQYAL  233
NTDB id 1239 Cj0634 YP 002344063.1                SMQSAKLALELNKPLYVLPQRLGESTATNLLLKENKAKLICDFKEFVSEFASIDM......NQDEFLEFCKKGVSVDEAL  230
consensus                                         !!*!!**! ****!**!!*!!**!!**!! !!    *!**! ****!* ****    *        !!!!**!****!***!*
```

```
NTDB id 1210 C694 RS01710 WP 001862983.1          LKFGDKLLEYELLGKIKRINHIVVLA.   266
NTDB id 155088 CPIN17260 RS07825 WP 078440838.1   DKFGDIVYEYELNGLIKIENLRVIVV.   259
NTDB id 1239 Cj0634 YP 002344063.1                KIYGQKVYEYELEGKISIEGLFIRVLA  257
consensus                                          **!****!!!! !*!***** ****
```

X non conserved
X similar
X ≥ 50% conserved