

```
NTDB id 109103 A9E90 RS11750 WP 010948047.1  MNLRDFFVITTWWGKILGAFFGYLTAGPVGALFGILVGNFFDRGLVSYYSNPHWLYHAEKQRIVQKAFFEATFSIMGHVA  80
NTDB id 1277 LPP RS11585 WP 014844489.1      MNLRDFFVITTWWGKILGAFFGYLTAGPVGALFGILVGNFFDRGLVSYYSNPHWLYHAEKQRIVQKAFFEATFSIMGHVA  80
NTDB id 1264 GCO85 RS11730 WP 014844489.1    MNLRDFFVITTWWGKILGAFFGYLTAGPVGALFGILVGNFFDRGLVSYYSNPHWLYHAEKQRIVQKAFFEATFSIMGHVA  80
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```



```
NTDB id 109103 A9E90 RS11750 WP 010948047.1  KSDGRVSEQEISMAKSIMNEMKLSKGQKDLAKRLFNEGKQADFNVSLALIQLQRICKDNRDLLKLFVDIQYRAAQVDGLS  160
NTDB id 1277 LPP RS11585 WP 014844489.1      KSDGRVSEQEISMAKSIMNEMKLSKGQKDLAKRLFNEGKQPDFNVSLALIQLQRICKDNRDLLKLFVDIQYRAAQVDGLS  160
NTDB id 1264 GCO85 RS11730 WP 014844489.1    KSDGRVSEQEISMAKSIMNEMKLSKGQKDLAKRLFNEGKQPDFNVSLALIQLQRICKDNRDLLKLFVDIQYRAAQVDGLS  160
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```



```
NTDB id 109103 A9E90 RS11750 WP 010948047.1  SQKIHALDNIFTHLGFAPLHKQYRFYEDFGSYFQQEQSKQHYHNQQEYKHTSSSQGQQGYKPQSPPNTLAHAFALLEVSP  240
NTDB id 1277 LPP RS11585 WP 014844489.1      SQKIHALDNIFTHLGFAPLHKQYRFYEDFGSYFQQEQSKQHYHNQQGYKHTSSSQDQQGYKPQSPPNTLAHAFALLEVSP  240
NTDB id 1264 GCO85 RS11730 WP 014844489.1    SQKIHALDNIFTHLGFAPLHKQYRFYEDFGSYFQQEQSKQHYHNQQGYKHTSSSQDQQGYKPQSPPNTLAHAFALLEVSP  240
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```



```
NTDB id 109103 A9E90 RS11750 WP 010948047.1  NANKQEVRRAYRRLLSRNHPDKLIAQGLPEEMIKLANDKTHQIMKAYELICETKGW  296
NTDB id 1277 LPP RS11585 WP 014844489.1      NASKQEVRRAYRRLLSRNHPDKLIAQGLPEEMIKLANDKTHQIMKAYELICETKGW  296
NTDB id 1264 GCO85 RS11730 WP 014844489.1    NASKQEVRRAYRRLLSRNHPDKLIAQGLPEEMIKLANDKTHQIMKAYELICETKGW  296
consensus                                    !!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

X non conserved
X similar
X ≥ 50% conserved