```
logo
NTDB id 362 SMU RS05200 WP 002262214.1          ..MIKLLLVEDDLSLSNSI.FDFLDDFADVMQVFDGEEGLYEAESGVYDLILLDLMLPEKNGFQVLKELREKGITTPVLI   77
NTDB id 1159611 QOR59 RS05190 WP 000590620.1    ..MIKILLIEDDLSLSNSV.FDFLDDFADVMQIFDGEEGLYEAESGVYDLILLDLMLPEKNGFQVLKELREKGITTPVLI   77
NTDB id 258 KZH43 RS03475 WP 000590640.1        ..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDGEEGLYEAESGVYDLILLDLMLPEKNGFQVLKELREKGITTPVLI   77
NTDB id 217 SPD RS03775 WP 000590640.1          ..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDGEEGLYEAESGVYDLILLDLMLPEKNGFQVLKELREKGITTPVLI   77
NTDB id 183 SPR RS03560 WP 000590640.1          ..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDGEEGLYEAESGVYDLILLDLMLPEKNGFQVLKELREKGITTPVLI   77
NTDB id 147 SP RS03905 WP 000590640.1           ..MIKILLVEDDLGLSNSV.FDFLDDFADVMQVFDGEEGLYEAESGVYDLILLDLMLPEKNGFQVLKELREKGITTPVLI   77
NTDB id 606 V4T04 RS01910 WP 003130756.1        MTSKKILIIEDEKNLARFVSLELEHEGYATEIKDNGRSGLEEATSKDYDLILLDLMLPELDGFEVARRLRKE.KDTPIIM   79
NTDB id 374 SMU RS06885 WP 002262930.1          ..MKKILIVDDEKPISDIIKFNLAKEGYDTITAFDGREALSKYEEENPDLIILDLMLPELDGLEVAKEVRKN.SHVPIIM   77
consensus                                         **!*!***!** ***** **************!***!*******!!!*!!!!!!!**!**!****!******!***
```

```
logo
NTDB id 362 SMU RS05200 WP 002262214.1          MTAKEGLDDKGHGFELGADDYLTKPFYLEELKMRIQALLKRSGKFN.....E.....NNLTYGELTVDTATNTTMVNGKE   147
NTDB id 1159611 QOR59 RS05190 WP 000590620.1    MTAKESIDDKGQGFDLGADDYLTKPFYLEELKMRIQALLKRSGKFN.....D.....NSLIYGDIRVDMSTNSTFVNQTE   147
NTDB id 258 KZH43 RS03475 WP 000590640.1        MTAKESLDDKGHGFELGADDYLTKPFYLEELKMRIQALLKRSGKFN.....E.....NTLTYGNIVVNLSTNTVKVEDTP   147
NTDB id 217 SPD RS03775 WP 000590640.1          MTAKESLDDKGHGFELGADDYLTKPFYLEELKMRIQALLKRSGKFN.....E.....NTLTYGNIVVNLSTNTVKVEDTP   147
NTDB id 183 SPR RS03560 WP 000590640.1          MTAKESLDDKGHGFELGADDYLTKPFYLEELKMRIQALLKRSGKFN.....E.....NTLTYGNIVVNLSTNTVKVEDTP   147
NTDB id 147 SP RS03905 WP 000590640.1           MTAKESLDDKGHGFELGADDYLTKPFYLEELKMRIQALLKRSGKFN.....E.....NTLTYGNIVVNLSTNTVKVEDTP   147
NTDB id 606 V4T04 RS01910 WP 003130756.1        MTARDSTMDRVAGLDIGADDYITKPFAIEELLARVRAFFRREEHGHAVERAENT.SFRDLVI.....DKTNRTVHRGKKV   153
NTDB id 374 SMU RS06885 WP 002262930.1          LSAKDSEFDKVIGLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAVAEENASGIPETIIGDLQTLPDAFVAKKRGTE   157
consensus                                       **!*****!***!***!!!!!*!!!!**!!**!**!***!*****     *      ****** * * ********  *
```

```
logo
NTDB id 362 SMU RS05200 WP 002262214.1          VELLGKEFDLLVYFLQNQNVILPKSQIFDRIWGFDSDTTISVVEVYVSKIRKKLKDT.TFGKNLQTLRSVGYILKDAN..   224
NTDB id 1159611 QOR59 RS05190 WP 000590620.1    VELLGKEFDLLVYFLQNQNVILPKSQIFDRIWGFDSDTTISVVEVYVSKVRKKLKGT.LFSENLQTLRSVGYILKHVETD   226
NTDB id 258 KZH43 RS03475 WP 000590640.1        VELLGKEFDLLVYFLQNQNVILPKTQIFDRLWGFDSDTTISVVEVYVSKVRKKLKGT.TFAENLQTLRSVGYLLKDVQ..   224
NTDB id 217 SPD RS03775 WP 000590640.1          VELLGKEFDLLVYFLQNQNVILPKTQIFDRLWGFDSDTTISVVEVYVSKVRKKLKGT.TFAENLQTLRSVGYLLKDVQ..   224
NTDB id 183 SPR RS03560 WP 000590640.1          VELLGKEFDLLVYFLQNQNVILPKTQIFDRLWGFDSDTTISVVEVYVSKVRKKLKGT.TFAENLQTLRSVGYLLKDVQ..   224
NTDB id 147 SP RS03905 WP 000590640.1           VELLGKEFDLLVYFLQNQNVILPKTQIFDRLWGFDSDTTISVVEVYVSKVRKKLKGT.TFAENLQTLRSVGYLLKDVQ..   224
NTDB id 606 V4T04 RS01910 WP 003130756.1        IDLTRREYDLLLTLMQNVGDVVTREHLVSQVWGYEEGTETNVVDVYIRYLRNKIDV.EGQDSYIQTVRGLGYVMRERK..   230
NTDB id 374 SMU RS06885 WP 002262930.1          VELTHREFELLHHLATHTGQVMTREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMKSYD..   235
consensus                                       **!***!**!!*******************!!*********!*!*****!*!****  *******!*!**!!******
```

X non conserved

X similar

X $\geq 50\%$ conserved