```
logo

NTDB id 22466 GBS RS04825 WP 000163019.1   MTKKQKQITASIVTLLFSLLAIGLGESKSLPNDHILKQVTDLIISNESGKNTSLKNVSGTPSRELSESVLTSNVKKQLGTNIAWN   85
NTDB id 262 KZH43 RS08770 WP 001036779.1   MNKKTRQTLIGLLV..LLLLSTGSYYIKQMPSAP..........NSPKTNLSQKKQASEAPSQALAESVLTDAVKSQIKGSLEWN   73
NTDB id 221 SPD RS09380 WP 001036779.1     MNKKTRQTLIGLLV..LLLLSTGSYYIKQMPSAP..........NSPKTNLSQKKQASEAPSQALAESVLTDAVKSQIKGSLEWN   73
NTDB id 187 SPR RS08930 WP 001036779.1     MNKKTRQTLIGLLV..LLLLSTGSYYIKQMPSAP..........NSPKTNLSQKKQASEAPSQALAESVLTDAVKSQIKGSLEWN   73
NTDB id 152 SP RS09870 WP 001036779.1      MNKKTRQTLIGLLV..LLLLSTGSYYIKQMPSAP..........NSPKTNLSQKKQASEAPSQALAESVLTDAVKSQIKGSLEWN   73
consensus                                  !*!!**!*******  **!!**!****!**!***          **********!**!**!!**!*!!!!!**!!*!******!!

logo

NTDB id 22466 GBS RS04825 WP 000163019.1   QSGAFIINQNKTDLNAKVSSAPYAINEIKKVNNQIVPTKANALLTKATRQYRNREETGNGRTYWKPAGWHQINGLKGSYNHAVDR   170
NTDB id 262 KZH43 RS08770 WP 001036779.1   GSGAFIVNGNKTNLDAKVSSKPYADNKTKTVGKETVPTVANALLSKATRQYKNRKETGNGSTSWTPPGWHQVKNLKGSYTHAVDR   158
NTDB id 221 SPD RS09380 WP 001036779.1     GSGAFIVNGNKTNLDAKVSSKPYADNKTKTVGKETVPTVANALLSKATRQYKNRKETGNGSTSWTPPGWHQVKNLKGSYTHAVDR   158
NTDB id 187 SPR RS08930 WP 001036779.1     GSGAFIVNGNKTNLDAKVSSKPYADNKTKTVGKETVPTVANALLSKATRQYKNRKETGNGSTSWTPPGWHQVKNLKGSYTHAVDR   158
NTDB id 152 SP RS09870 WP 001036779.1      GSGAFIVNGNKTNLDAKVSSKPYADNKTKTVGKETVPTVANALLSKATRQYKNRKETGNGSTSWTPPGWHQVKNLKGSYTHAVDR   158
consensus                                  *!!!!!*!*!!!!*!*!!!!!*!!!*!**!*!****!!!*!!!!!*!!!!!!*!!*!!!!!*!*!*!*!!!!***!!!!!*!!!!!

logo

NTDB id 22466 GBS RS04825 WP 000163019.1   GHLIGYALVGSLRGFDASTSNPKNIATQAAWANQANSNQSTGQNYYETLVRKALDRHKTIRYRVTLIYDR.DNLLSSGSHIEAKS   254
NTDB id 262 KZH43 RS08770 WP 001036779.1   GHLLGYALIGGLDGFDASTSNPKNIAVQTAWANQAQAEYSTGQNYYESKVRKALDQNKRVRYRVTLYYASNEDLVPSASQIEAKS   243
NTDB id 221 SPD RS09380 WP 001036779.1     GHLLGYALIGGLDGFDASTSNPKNIAVQTAWANQAQAEYSTGQNYYESKVRKALDQNKRVRYRVTLYYASNEDLVPSASQIEAKS   243
NTDB id 187 SPR RS08930 WP 001036779.1     GHLLGYALIGGLDGFDASTSNPKNIAVQTAWANQAQAEYSTGQNYYESKVRKALDQNKRVRYRVTLYYASNEDLVPSASQIEAKS   243
NTDB id 152 SP RS09870 WP 001036779.1      GHLLGYALIGGLDGFDASTSNPKNIAVQTAWANQAQAEYSTGQNYYESKVRKALDQNKRVRYRVTLYYASNEDLVPSASQIEAKS   243
consensus                                  !!!*!!!!*!*!*!!!!!!!!!!!!!!!*!!!!!!!****!!!!!!!!**!!!!!!**!**!!!!!!*!*****!**!*!*!!!!!

logo

NTDB id 22466 GBS RS04825 WP 000163019.1   SDGSLEFNVFIPNVQSGLLFDYATGKVKQTK   285
NTDB id 262 KZH43 RS08770 WP 001036779.1   SDGELEFNVLVPNVQKGLQLDYRTGEVTVTQ   274
NTDB id 221 SPD RS09380 WP 001036779.1     SDGELEFNVLVPNVQKGLQLDYRTGEVTVTQ   274
NTDB id 187 SPR RS08930 WP 001036779.1     SDGELEFNVLVPNVQKGLQLDYRTGEVTVTQ   274
NTDB id 152 SP RS09870 WP 001036779.1      SDGELEFNVLVPNVQKGLQLDYRTGEVTVTQ   274
consensus                                  !!!*!!!!!**!!!!*!!**!!*!!*!**!*
```

X non conserved

X similar

X $\geq$ 50% conserved