```
logo
NTDB id 195404 A7J08 RS04480 WP 105178521.1  MPKRFKKLMYTDKFSFFIRYFAVFTLIFGLMTAIIFQLMRSTMYQNSDNTLKRIKKEPALAVGFAIARTYEPNSVFILQD   80
NTDB id 363 SMU RS05195 WP 002262215.1       MLIKLRKQKQDENISFFSHFFAVFTGIFFVMTVIIIQVMHFGIYSSVDNSLKIATENVNDYVNMTLSHNN.PITEAE...   76
NTDB id 259 KZH43 RS03480 WP 000491790.1     MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLE...   77
NTDB id 218 SPD RS03780 WP 000491790.1       MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLE...   77
NTDB id 184 SPR RS03565 WP 000491790.1       MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLE...   77
NTDB id 148 SP RS03910 WP 000491790.1        MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLE...   77
consensus                                    !*****!*******!*!***!*!!!*!!**!!*!!*!*!****!***!**!**********************

logo
NTDB id 195404 A7J08 RS04480 WP 105178521.1  SPTGEETTSSSSDSMSVPKNQKNTRAGDQLRLGANTHVLLYSKSG.EMINPDTFTGLADLSLDKEKLGEIKETTVESSFG  159
NTDB id 363 SMU RS05195 WP 002262215.1       ..NGD.......ASF.........KVKSNGQMAANTDTILYDKKHNVINNVNAFSSLYHIRPKLKDIGDIVEQEAKNIYG  138
NTDB id 259 KZH43 RS03480 WP 000491790.1     ..NAR......ADAS.........KVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYG  140
NTDB id 218 SPD RS03780 WP 000491790.1       ..NAR......ADAS.........KVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYG  140
NTDB id 184 SPR RS03565 WP 000491790.1       ..NAR......ADAS.........KVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYG  140
NTDB id 148 SP RS03910 WP 000491790.1        ..NAR......ADAS.........KVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYG  140
consensus                                      ***       ****         **********!!***!**!**********!**!**********!*!*********!

logo
NTDB id 195404 A7J08 RS04480 WP 105178521.1  MSEDYRYITIGLATDELGYYSSYDIKYATILVNVSQIKSSIESYESTVAIVMVSAWLISILASIYLSNLSMRPILISYQK  239
NTDB id 363 SMU RS05195 WP 002262215.1       QTEKYRTVTVKVNN.D....FYPQIKFATIVINTTQLEEANTRYVTIIISVMIVFWLISVIASVYLAKWSQKPILENYEK  213
NTDB id 259 KZH43 RS03480 WP 000491790.1     QEEIYRVILMETNISS....VSTNIKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQK  216
NTDB id 218 SPD RS03780 WP 000491790.1       QEEIYRVILMETNISS....VSTNIKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQK  216
NTDB id 184 SPR RS03565 WP 000491790.1       QEEIYRVILMETNISS....VSTNIKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQK  216
NTDB id 148 SP RS03910 WP 000491790.1        QEEIYRVILMETNISS....VSTNIKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQK  216
consensus                                    **!*!!**********    ****!!*!****!**!**************!!***!**!**!!*!!***!**!*!****!

logo
NTDB id 195404 A7J08 RS04480 WP 105178521.1  QKDFVENASHELRTPLAVLQNRLESLFRHPETTILESSESIGSSLEEVRNMRLLTTNLLNLARRDDGLKVDMIDVQPNYF  319
NTDB id 363 SMU RS05195 WP 002262215.1       QKSFVENASHELRTPLAVLQNRLESLFRKPEATILDSSESIASSLEEVRNMRMLTANLLNLARRDDGIKPEITEIQPRFF  293
NTDB id 259 KZH43 RS03480 WP 000491790.1     QQSFVENASHELRTPLAVLQNRLETLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFF  296
NTDB id 218 SPD RS03780 WP 000491790.1       QQSFVENASHELRTPLAVLQNRLETLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFF  296
NTDB id 184 SPR RS03565 WP 000491790.1       QQSFVENASHELRTPLAVLQNRLETLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFF  296
NTDB id 148 SP RS03910 WP 000491790.1        QQSFVENASHELRTPLAVLQNRLETLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFF  296
consensus                                    !**!!!!!!!!!!!!!!!!!!!!!!!!*!!!*!!*!!***!!!!*!!!!!!!!!!!*!!**!!!!!!!!!!!*!*********!

logo
NTDB id 195404 A7J08 RS04480 WP 105178521.1  DEIFANYLMIAEENGKTLTVNNLIHQPIRTDKVLIKQLLTILFDNAMKYTDDDGTIQIAANIKDKLVCFTVIDNGLGISD  399
NTDB id 363 SMU RS05195 WP 002262215.1       DDTFKNYEMIARENGKKLHIINKVNRQIKTDKTLLKQLMTILFDNAVKYTDNDGEIWLDVKTTDRSLIFSVADNGQGISD  373
NTDB id 259 KZH43 RS03480 WP 000491790.1     NTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGIST  376
NTDB id 218 SPD RS03780 WP 000491790.1       NTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGIST  376
NTDB id 184 SPR RS03565 WP 000491790.1       NTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGIST  376
NTDB id 148 SP RS03910 WP 000491790.1        NTTFTNYEMIASENNRVFRFENRIHRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGIST  376
consensus                                    ***!*!!*!!!*!!*******!*****!*!!**!*!!!*!!!!!!!!*!!!!**!!*!*******!******!*!!!*!!!*
```

```
logo

NTDB id 195404 A7J08 RS04480 WP 105178521.1   ADKKKIFDRFYRVDKARTRQKGGFGLGLSLAQQIIKNLDGEISVRDNQPKGTIFEVRLPK........   459
NTDB id 363 SMU RS05195 WP 002262215.1        EDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQITDSLKGSIIVKDKKPQGVMFEARLLANK......   435
NTDB id 259 KZH43 RS03480 WP 000491790.1      EDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
NTDB id 218 SPD RS03780 WP 000491790.1        EDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
NTDB id 184 SPR RS03565 WP 000491790.1        EDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
NTDB id 148 SP RS03910 WP 000491790.1         EDKKKIFDRFYRVDKARTRQKGGFGLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
consensus                                     *!!!
```