```
logo
NTDB id 36593 SMUNN2025 RS04735 WP 002264510.1  MLIKLRKQKQDENISFFSHFFAVFTGIFFVMTVIIIQVMHFGIYSSVDNSLKIATENVNDYVNMTLSHNN.PITEAENGD   79
NTDB id 363 SMU RS05195 WP 002262215.1          MLIKLRKQKQDENISFFSHFFAVFTGIFFVMTVIIIQVMHFGIYSSVDNSLKIATENVNDYVNMTLSHNN.PITEAENGD   79
NTDB id 259 KZH43 RS03480 WP 000491790.1        MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLENAR   80
NTDB id 218 SPD RS03780 WP 000491790.1          MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLENAR   80
NTDB id 184 SPR RS03565 WP 000491790.1          MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLENAR   80
NTDB id 148 SP RS03910 WP 000491790.1           MFSKLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPQAVIQLAINRATEEIKDLENAR   80
consensus                                       !**!!*!*******!*!***!*!!!*!!**!!*!!*!!!!***!*!!!**!****!!***************!***!!**

logo
NTDB id 36593 SMUNN2025 RS04735 WP 002264510.1  .ASFKVKSNGQMAANTDTILYDKKHNVINNVNAFSSLYHIRPKLKDIGDIVEQEAKNIYGQTEKYRTVTVKVNN.DFYPQ  157
NTDB id 363 SMU RS05195 WP 002262215.1          .ASFKVKSNGQMAANTDTILYDKKHNVINNVNAFSSLYHIRPKLKDIGDIVEQEAKNIYGQTEKYRTVTVKVNN.DFYPQ  157
NTDB id 259 KZH43 RS03480 WP 000491790.1        ADASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTN  160
NTDB id 218 SPD RS03780 WP 000491790.1          ADASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTN  160
NTDB id 184 SPR RS03565 WP 000491790.1          ADASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTN  160
NTDB id 148 SP RS03910 WP 000491790.1           ADASKVEIKPNVSSNTEVILFDKDFTQLLSGNRFLGLDKIKLEKKELGHIYQIQVFNSYGQEEIYRVILMETNISSVSTN  160
consensus                                       ****!!********!!**!!*!!********!*!**!**!****!**!*!******!*!!!*!*!!******!*******

logo
NTDB id 36593 SMUNN2025 RS04735 WP 002264510.1  IKFATIVINTTQLEEANTRYVTIIISVMIVFWLISVIASVYLAKWSQKPILENYEKQKSFVENASHELRTPLAVLQNRLE  237
NTDB id 363 SMU RS05195 WP 002262215.1          IKFATIVINTTQLEEANTRYVTIIISVMIVFWLISVIASVYLAKWSQKPILENYEKQKSFVENASHELRTPLAVLQNRLE  237
NTDB id 259 KZH43 RS03480 WP 000491790.1        IKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQKQQSFVENASHELRTPLAVLQNRLE  240
NTDB id 218 SPD RS03780 WP 000491790.1          IKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQKQQSFVENASHELRTPLAVLQNRLE  240
NTDB id 184 SPR RS03565 WP 000491790.1          IKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQKQQSFVENASHELRTPLAVLQNRLE  240
NTDB id 148 SP RS03910 WP 000491790.1           IKYAAVLINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESMQKQQSFVENASHELRTPLAVLQNRLE  240
consensus                                       !!*!***!!!*!!!*!*******!**!!**!!**!**!!*!!!**!**!*!!***!!*!!!!!!!!!!!!!!!!!!!!!!

logo
NTDB id 36593 SMUNN2025 RS04735 WP 002264510.1  SLFRKPEATILDSSESIASSLEEVRNMRMLTANLLNLARRDDGIKPEITEIQPRFFDDTFKNYEMIARENGKKLHITNKV  317
NTDB id 363 SMU RS05195 WP 002262215.1          SLFRKPEATILDSSESIASSLEEVRNMRMLTANLLNLARRDDGIKPEITEIQPRFFDDTFKNYEMIARENGKKLHIINKV  317
NTDB id 259 KZH43 RS03480 WP 000491790.1        TLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRI  320
NTDB id 218 SPD RS03780 WP 000491790.1          TLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRI  320
NTDB id 184 SPR RS03565 WP 000491790.1          TLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRI  320
NTDB id 148 SP RS03910 WP 000491790.1           TLFRKPEATIMDVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFFNTTFTNYEMIASENNRVFRFENRI  320
consensus                                       *!!!!!!!!!!*!*!!!!!!!!!!!!!!!!!*!!**!!!!!!!!!!!!!!!!**!****!!**!!*!!!!!!*!!*******!**

logo
NTDB id 36593 SMUNN2025 RS04735 WP 002264510.1  NRQIKTDKTLLKQLMTILFDNAVKYTDNDGEIWLDVKTTDRSLIFSVADNGQGISDEDKKKIFDRFYRVDKARTRQKGGF  397
NTDB id 363 SMU RS05195 WP 002262215.1          NRQIKTDKTLLKQLMTILFDNAVKYTDNDGEIWLDVKTTDRSLIFSVADNGQGISDEDKKKIFDRFYRVDKARTRQKGGF  397
NTDB id 259 KZH43 RS03480 WP 000491790.1        HRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGF  400
NTDB id 218 SPD RS03780 WP 000491790.1          HRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGF  400
NTDB id 184 SPR RS03565 WP 000491790.1          HRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGF  400
NTDB id 148 SP RS03910 WP 000491790.1           HRTIVTDQLLLKQLMTILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGF  400
consensus                                       *!*!*!!**!!!!!!!!!!!!!!!!!!!!!!**!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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logo
                                                  GLGLSLAKQITDSLKGSIIVKDKKPQGVMFEARLLANK.....
NTDB id 36593 SMUNN2025 RS04735 WP 002264510.1   GLGLSLAKQITDSLKGSIIVKDKKPQGVMFEARLLANK.....   435
NTDB id 363 SMU RS05195 WP 002262215.1           GLGLSLAKQITDSLKGSIIVKDKKPQGVMFEARLLANK.....   435
NTDB id 259 KZH43 RS03480 WP 000491790.1         GLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
NTDB id 218 SPD RS03780 WP 000491790.1           GLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
NTDB id 184 SPR RS03565 WP 000491790.1           GLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
NTDB id 148 SP RS03910 WP 000491790.1            GLGLSLAKQIVDALKGTVTVKDNKPKGTIFEVKIAIQTPSKKKK   444
consensus                                        !!!!!!!!!!*!*!!!***!!!*!!*!**!!**************
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X non conserved

X similar

X $\geq$ 50% conserved