```
logo

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  MKKYIFMRILRSIVSIFLVTTLTYAIIYTMVPRRLIFKQDPNYNKIATNKDKKANYENTIFERMGYIDYYDTKELQEKAS   80
NTDB id 476 HSISS4 RS06995 WP 013990225.1    MKKYILLRTLRSLLSIFVVTALTYTIIYTMVPRRLIFRQDPNYNKIAKTADSKANYENTIYERMGYIDYYDTKELQEKAS   80
NTDB id 293 STER RS06925 WP 011681416.1      MKKYILLRTLRSLLSIFVVTALTYTIIYTMVPRRLIFRQDPNYNKIAKTADSKANYENTIYERLGYIDYYDTKELQEKAS   80
NTDB id 325 STU RS16125 WP 002946410.1       MKKYILLRTLRSLLSIFVVTALTYTIIYTMVPRRLIFRQDPNYNKIAKTADSKANYENTIYERLGYIDYYDTKELQEKAS   80
consensus                                    !!!!!**!*!!!**!!!*!!*!!!*!!!!!!!!!!!!*!!!!!!!!!***!*!!!!!!!!*!!*!!!!!!!!!!!!!!!!!

logo

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  KEDSSVTTEATEANKKIYQKYIDKLGNGWKLQEFPLSGEFYAVREVPVYERVFEFYANLIQIDHPNVIQDEENPNLERYI  160
NTDB id 476 HSISS4 RS06995 WP 013990225.1    SLDKSVTTKPTKENKAIYQKYVDSLGHGWRLHQFKQSKQFYATRDVPVLERVFGFYTHLFEFDNTGWVKDKTNPNLKRYI  160
NTDB id 293 STER RS06925 WP 011681416.1      SLDKSVTTKPTKENKAVYQKYVDSLGRGWRLHQFKQSKQFYATRDVPVLERVFGFYTHLFEFDNTGWVKDKTNPNLKRYI  160
NTDB id 325 STU RS16125 WP 002946410.1       SLDKSVTTKPTKENKAIYQKYVDSLGRGWRLHQFKQSKQFYATRDVPVLERVFGFYTHLFEFDNTGWVKDKTNPNLKRYI  160
consensus                                    **!*!!!!**!**!!**!!!!*!*!!*!!*!**!**!**!!!*!*!!!!*!!!!*!!**!***!******!**!!!!*!!!

logo

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  RFENDPSVGWSLVGSGTKHKYLLYFNGQFPFVHQNFITFNLGNSYPTYANIPVLQVITQGQGQTKSSEVQFPTGKKTSSV  240
NTDB id 476 HSISS4 RS06995 WP 013990225.1    RIENDPAIGWSVVGSGTKHKYLLYFNSQFPFVHQNFVKMNLGTSYPTYAEQGVLDVITQGQGQTQSSEVNFPTGKKVSSV  240
NTDB id 293 STER RS06925 WP 011681416.1      RIENDPAIGWSVVGSGTKHKYLLYFNGQFPFVHQNFVKMNLGTSYPTYAGQGVLDVITQGQGQTKSSVVNFPTGKKISSV  240
NTDB id 325 STU RS16125 WP 002946410.1       RIENDPAIGWSVVGSGTKHKYLLYFNSQFPFVHQNFVKMNLGTSYPTYAEQGVLDVITQGQGQTKSSVVNFPTGKKISSV  240
consensus                                    !*!!!!**!!!*!!!!!!!!!!!!!!! !!!!!!!!!***!!!*!!!!!!***!!*!!!!!!!!!*!! !*!!!!!!*!!!

logo

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  NIYSRTYKTPSKADSQDIAKFGKGDAYTATQSNYQNPSMITSSAIIGLIGVALSYLIAIPLGSYMARLKNTWFDSISTAG  320
NTDB id 476 HSISS4 RS06995 WP 013990225.1    DIYSRTYKSPSQADARDRSYYG.DDPYTATKSRYQYPSMVTSSAIAGLIGLVLSYALAIPLGSYMARFKNTLFDSVSTGI  319
NTDB id 293 STER RS06925 WP 011681416.1      DIYSRTYKSPSQADARDRSYYG.NDPYTATKSRYQYPSMVTSSAIAGLIGLVLSYALAIPLGSYMALFKNTLFDSVSTGV  319
NTDB id 325 STU RS16125 WP 002946410.1       DIYSRTYKSPSQADARDRSYYG.NDPYTATKSRYQYPSMVTSSAIAGLIGLVLSYALAIPLGSYMALFKNTIFDSVSTGV  319
consensus                                    *!!!!!!!*!!*!!**!****! *!*!!!!*!*!!*!!!!*!!!!!*!!!!**!!!**!!!!!!!!! *!!!*!!!*!!**

logo

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  LTFMMSLPTIALVYIVRLAGSALGLPDSFPILGAGDWRSYVLPAVILGLLSAPWTAVWIRRYMIDLQSQDFVRFARAKGL  400
NTDB id 476 HSISS4 RS06995 WP 013990225.1    LTFLLSLPTIALVYIIRLIGSEIGLPDSFPILGAGDWRSYVLPSVILGLLSTPGLAIWIRRYMIDLQSQDFVRFARAKGL  399
NTDB id 293 STER RS06925 WP 011681416.1      LTFLLSLPTIALVYIIRLIGSEIGLPDSFPILGAGDWRSYVLPSVILGLLSTPGLAIWIRRYMIDLQSQDFVRFARAKGL  399
NTDB id 325 STU RS16125 WP 002946410.1       LTFLLSLPTIALVYIIRLIGSEIGLPDSFPILGAGDWRSYVLPSVILGLLSTPGLAIWIRRYMIDLQSQDFVRFARAKGL  399
consensus                                    !!!**!!!!!!!!!!!*!!*!!**!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!*!**!*!!!!!!!!!!!!!!!!!!!!!!!!

logo

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  SEKEISNKHIFKNAMVPLVSSIPASIVGVIAGATLTETVFAFPGMGKMLIDSVKASNNSMVVGLVFIFTCLSIFALLLGD  480
NTDB id 476 HSISS4 RS06995 WP 013990225.1    SEQEISNKHIFKNAMVSLVSGIPASIVSVITGATLTETIFAYPGMGKMLIDSVRASNNAMVVGLVFIFTALTIFSLLVGD  479
NTDB id 293 STER RS06925 WP 011681416.1      SEQEISNKHILKNAMVSLVSGIPASIVGVITGATLTETIFAYPGMGKMLIDSVRASNNAMVVGLVFIFTALSIFSLLVGD  479
NTDB id 325 STU RS16125 WP 002946410.1       SEQEISNKHILKNAMVSLVSGIPASIVGVITGATLTETIFAYPGMGKMLIDSVRASNNAMVVGLVFIFTALSIFSLLVGD  479
consensus                                    !!*!!!!!!!! !!!!!*!!!*!!!!!!*!!*!!!!!!!*!!*!!!!!!!!!!!!*!!!!*!!!!!!!!!!!*!*!!*!!*!!
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logo                                          ILMTVLDPRIKLTSKGGK

NTDB id 1117800 ELZ47 RS02120 WP 125332708.1  ILMTVLDPRIKLTSKGGK   498
NTDB id 476 HSISS4 RS06995 WP 013990225.1     ILMTMIDPRIKLTSKGGK   497
NTDB id 293 STER RS06925 WP 011681416.1       ILMTIIDPRIKLTSKGGK   497
NTDB id 325 STU RS16125 WP 002946410.1        ILMTIIDPRIKLTSKGGK   497
consensus                                     !!!!**!!!!!!!!!!!!
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X non conserved

X similar

X $\geq$ 50% conserved