```
logo
NTDB id 402704 FOB91 RS06720 WP 012131078.1   .MIFTIILSLFPVIIQVFSYDFFYNKINRKKKINIKLIILFWGLIMVIS..FLYSLFLLLPDYWKIFRDIFHYLFLLIQP   77
NTDB id 416 SGO RS10505 WP 012131078.1        .MIFTIILSLFPVIIQVFSYDFFYNKINRKKKINIKLIILFWGLIMVIS..FLYSLFLLLPDYWKIFRDIFHYLFLLIQP   77
NTDB id 419 DQL23 RS10745 WP 060553298.1      .MILKIIIAFFPTIIQVVSYEIFHKKIMQSKKIDIKFIGLFFSIVFGIS..IISSILIEIPSFGDVISSIFHYIFLFIQP   77
NTDB id 486 SM12261 RS09375 WP 020902616.1    MDFLAVLVVILHIFIISKSYYLI.....CKNKINIKELCFFGGYTFLVESVFELSFYFIYLDGLGIE........KFLFP   67
NTDB id 514 SMSK321 RS10615 WP 001048129.1    MNLFGVGLVIVYFLIISHSYRLI.....CKGQINRKELYVFSAYILLTEIVLDFPSYLLHLDDLGIV........KFLFP   67
NTDB id 249 KZH43 RS10250 WP 000362880.1      MDLFGFGTVIVHFLIISHSYHFI.....CKGQINRKELFVFGAYTLLTEIVFDFPLYILYLDGLGIE........RFLFP   67
NTDB id 208 SPD RS10925 WP 000362880.1        MDLFGFGTVIVHFLIISHSYHFI.....CKGQINRKELFVFGAYTLLTEIVFDFPLYILYLDGLGIE........RFLFP   67
NTDB id 174 SPR RS10405 WP 000362880.1        MDLFGFGTVIVHFLIISHSYHFI.....CKGQINRKELFVFGAYTLLTEIVFDFPLYILYLDGLGIE........RFLFP   67
NTDB id 138 SP RS11430 WP 000364845.1         MDLLGFGTVIVHFLIISHSYRLI.....CKGRINRKELYVFGAYTLLTEIVLEFSFYLLYLDKIGIE........RFLFP   67
consensus                                     **************!***!!  **      ****!**!****!******************** ****         ****!

logo
NTDB id 402704 FOB91 RS06720 WP 012131078.1   LIFYKYFLIKRKEYENYLNLFLSFVIYLSVETSETFLSVIISSITGDSFVKQHYDIFYIIINLLSLFIILKVVDFFDFYF   157
NTDB id 416 SGO RS10505 WP 012131078.1        LIFYKYFLIKRKEYENYLNLFLSFVIYLSVETSETFLSVIISSITGDSFVKQHYDIFYIIINLLSLFIILKVVDFFDFYF   157
NTDB id 419 DQL23 RS10745 WP 060553298.1      LIFYKYFL.KRKEYDNYLNLFLSFVIYLSVETSETFLSVIISSITGDYFVKQHYDIFYIIINLLSLFIILKVVDFFDFYF   156
NTDB id 486 SM12261 RS09375 WP 020902616.1    LVLYSYFRF.IKKYEKYRGVFLSLLLSLLYNSTHTFLSVTLSSIIGDDTALQYHSLFFLVVVALTYVVIVTIIRYFHLEL   146
NTDB id 514 SMSK321 RS10615 WP 001048129.1    LVLYSYFRW.IKQYERDRGLFLSLLLSLLYESTHNFLSVTLSSLTGDNFVLQYYEPFFFLVTVLTYVVILKIIHYFHLDL   146
NTDB id 249 KZH43 RS10250 WP 000362880.1      LGLYSYFRW.MKQYERDRGLFLSLLLSLLYESTHNFLSVTFSSITGDNFVLQYHFPFFFVVTVLTYFVTLKIIYYFHLEL   146
NTDB id 208 SPD RS10925 WP 000362880.1        LGLYSYFRW.MKQYERDRGLFLSLLLSLLYESTHNFLSVTFSSITGDNFVLQYHFPFFFVVTVLTYFVTLKIIYYFHLEL   146
NTDB id 174 SPR RS10405 WP 000362880.1        LGLYSYFRW.MKQYERDRGLFLSLLLSLLYESTHNFLSVTFSSITGDNFVLQYHFPFFFVVTVLTYFVTLKIIYYFHLEL   146
NTDB id 138 SP RS11430 WP 000364845.1         LGLYSYFRW.MKQYERDRGLFLSLLLSLLYESTHNFLSVIFSSITGDNFVLQYHFPFFFVVTVLTYFVTLKIIYYFHLEL   146
consensus                                     !**!*!!** *!*!*****!!!****!*******!!!!**!!**!!****!** *!******!********* *!****

logo
NTDB id 402704 FOB91 RS06720 WP 012131078.1   EYYKEPIYKNDLYNVNKSYIVIHILLNISHWFSENAHLNSFASMIATIGFIMFLSTLFYLKSAREQYEKAKEIQQKKEEQ   237
NTDB id 416 SGO RS10505 WP 012131078.1        EYYKEPIYKNDLYNVNKSYIVIHILLNISHWFSENAHLNSFASMIATIGFIMFLSTLFYLKSAREQYEKAKEIQQKKEEQ   237
NTDB id 419 DQL23 RS10745 WP 060553298.1      EYYKEPIYKNDLYNVNKSYIVIHILLNISHWFSENAHLNSFASMIATIGFIMFLSTLFYLKSAREQHEKAKEIQQKKEEQ   236
NTDB id 486 SM12261 RS09375 WP 020902616.1    NYFDKDYLYPFLKKVFFALLLLHVVSFISDMVSTIKHLNSFGSILSSIVFISLLLTFFAMNSHKEKMEKEIALKQKKFEQ   226
NTDB id 514 SMSK321 RS10615 WP 001048129.1    NYFDKDYLYPFLTKVFFALLLLHIVSFVSDMVSTIKHLNSFGSILSSIVFISLLLTFFAMNSHKDQMEKEIALKQKKFEQ   226
NTDB id 249 KZH43 RS10250 WP 000362880.1      AYFDEDYLYPFLKKVFFALLLLHIVSFVSDMVSTIKHLNSFGSILSSIVFISLLLTFFAMNSHKVQMEKEIALKQKKFEQ   226
NTDB id 208 SPD RS10925 WP 000362880.1        AYFDEDYLYPFLKKVFFALLLLHIVSFVSDMVSTIKHLNSFGSILSSIVFISLLLTFFAMNSHKVQMEKEIALKQKKFEQ   226
NTDB id 174 SPR RS10405 WP 000362880.1        AYFDEDYLYPFLKKVFFALLLLHIVSFVSDMVSTIKHLNSFGSILSSIVFISLLLTFFAMNSHKVQMEKEIALKQKKFEQ   226
NTDB id 138 SP RS11430 WP 000364845.1         AYFDKDYLYPFLKKVFFALLLLHIVSFVSDMVSTIKHLNSFGSILSSIVFISLLLTFFAMNSHKVQMEKEIALKQKKFEQ   226
consensus                                      !*********!**!*******!*****!***!***!!!!!*!****!*!!**!*!*!***!*****!!*****!!!*!!

logo
NTDB id 402704 FOB91 RS06720 WP 012131078.1   RQLQLYTDEIVGLYNEIRGFRHDYAGMLTSLQTGINSGDMKEVERIFHNVLSQANISLRSDDYTFFELNNVQDTALRSVL   317
NTDB id 416 SGO RS10505 WP 012131078.1        RQLQLYTDEIVGLYNEIRGFRHDYAGMLTSLQTGINSGDMKEVERIFHNVLSQANISLRSDDYTFFELNNVQDTALRSVL   317
NTDB id 419 DQL23 RS10745 WP 060553298.1      RQLQLYTDEIVGLYNEIRGFRHDYAGMLISLQTGINSGDMKEVERIFHNVLSQANISLRSDDYTFFELNNVQDTALRSVL   316
NTDB id 486 SM12261 RS09375 WP 020902616.1    KHLQNYTDEIVGLYNEIRGFRHDYAGMLVSMQMAIDSGDLQEIDRVYNEVLVKANHKLRSDKYTYFDLNNIEDSALRSLV   306
NTDB id 514 SMSK321 RS10615 WP 001048129.1    KHLQNYTDEIVGLYNEIRGFRHDYAGMLVSMQMAIDSGNLQEIDRVYNEVLVKANHKLRSDKYTYFDLNNIEDSALRSLV   306
NTDB id 249 KZH43 RS10250 WP 000362880.1      KHLQNYTDEIVGLYNEIRGFRHDYAGMLVSMQMAIDSGNLQEIDRIYNEVLVKANHKLRSDKYTYFDLNNIEDSALRSLV   306
NTDB id 208 SPD RS10925 WP 000362880.1        KHLQNYTDEIVGLYNEIRGFRHDYAGMLVSMQMAIDSGNLQEIDRIYNEVLVKANHKLRSDKYTYFDLNNIEDSALRSLV   306
NTDB id 174 SPR RS10405 WP 000362880.1        KHLQNYTDEIVGLYNEIRGFRHDYAGMLVSMQMAIDSGNLQEIDRIYNEVLVKANHKLRSDKYTYFDLNNIEDSALRSLV   306
NTDB id 138 SP RS11430 WP 000364845.1         KHLQNYTDEIVGLYNEIRGFRHDYAGMLVSMQMAIDSGNLQEIDRIYNEVLVKANHKLRSDKYTYFDLNNIEDSALRSLV   306
consensus                                     **!!*!!!!!!!!!!!!!!!!!!!!!!!!!*!*!**!*!!***!**!****!!**!!**!!!!*!!*!*!!!!**!*!!!!**
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logo
NTDB id 402704 FOB91 RS06720 WP 012131078.1   IQTIFKARECGVEIVFEMKDVIETLPMKLLDLVRVASVLLNNAVEGAAESPSKTMNVSLVKLDKEIVFVIQNSRQSRYIN   397
NTDB id 416 SGO RS10505 WP 012131078.1        IQTIFKARECGVEIVFEMKDVIETLPMKLLDLVRVASVLLNNAVEGAAESPSKTMNVSLVKLDKEIVFVIQNSRQSRYIN   397
NTDB id 419 DQL23 RS10745 WP 060553298.1      IQTIFKARECGVEIVFEMKDVIETLPMKLLDLVRVASVLLNNAVEGAAESPSKTMNVSLVKLDKEIVFVIQNSRQSRYIN   396
NTDB id 486 SM12261 RS09375 WP 020902616.1    AQSIVYARNNGVEFTLEVKDKITKLPIELLDLVRIMSVLLNNAVEGSADSYKKQMEVAVIKMETETVIVIQNSCKMTMTP   386
NTDB id 514 SMSK321 RS10615 WP 001048129.1    AQSIVYARNNGVEFTLEVKDIITRLPIDLLDLVRIMSVLLNNAVEGSADSYKKQMEVAVIKMETETVIVIQNSCKMTMTP   386
NTDB id 249 KZH43 RS10250 WP 000362880.1      AQSIVYARNNGVEFTLEVKDTITKLPIELLDLVRIMSVLLNNAVEGSADSYKKQMEVAVIKMETETVIVIQNSCKMTMTP   386
NTDB id 208 SPD RS10925 WP 000362880.1        AQSIVYARNNGVEFTLEVKDTITKLPIELLDLVRIMSVLLNNAVEGSADSYKKQMEVAVIKMETETVIVIQNSCKMTMTP   386
NTDB id 174 SPR RS10405 WP 000362880.1        AQSIVYARNNGVEFTLEVKDTITKLPIELLDLVRIMSVLLNNAVEGSADSYKKQMEVAVIKMETETVIVIQNSCKMTMTP   386
NTDB id 138 SP RS11430 WP 000364845.1         AQSIVYARNNGVEFTLEVKDTITKLPIELLDLVRIMSVLLNNAVEGSADSYKKQMEVAVIKMETETVIVIQNSCKMTMTP   386
consensus                                     *!*!**!!**!!!***!*!! !**!!**!!!!!!**!!!!!!!!!!*!*!**!*!*!***!***!*!*!!!!!*******

logo
NTDB id 402704 FOB91 RS06720 WP 012131078.1   LEEIYEVGFSTKGENRGLGLNNVKEIIDKYDEVILETDIETNYFIQVVRFKRKEKI   453
NTDB id 416 SGO RS10505 WP 012131078.1        LEEIYEVGFSTKGENRGLGLNNVKEIIDKYDEVILETDIETNYFIQVVRFKRKEKI   453
NTDB id 419 DQL23 RS10745 WP 060553298.1      LEEIYEVGFSTKGENRGLGLNNVKEIIDKYDEVILETDIETNYFIQVVRFKRKEKI   452
NTDB id 486 SM12261 RS09375 WP 020902616.1    SGDLFALGFSTKGRNRGVGLNNVKELLDKYNNIILETEMEGSTFRQIIRFKREFE.   441
NTDB id 514 SMSK321 RS10615 WP 001048129.1    SGDLFALGFSTKGRNRGVGLNNVKELLDKYNNIILETEMEGSTFRQIIRFKREFE.   441
NTDB id 249 KZH43 RS10250 WP 000362880.1      SGDLFALGFSTKGRNRGVGLNNVKELLDKYNNIILETEMEGSTFRQIIRFKREFE.   441
NTDB id 208 SPD RS10925 WP 000362880.1        SGDLFALGFSTKGRNRGVGLNNVKELLDKYNNIILETEMEGSTFRQIIRFKREFE.   441
NTDB id 174 SPR RS10405 WP 000362880.1        SGDLFALGFSTKGRNRGVGLNNVKELLDKYNNIILETEMEGSTFRQIIRFKREFE.   441
NTDB id 138 SP RS11430 WP 000364845.1         SGDLFALGFSTKGRNRGVGLNNVKELLDKYNNIILETEMEGSTFRQIIRFKREFE.   441
consensus                                     *******!!!!!!*!!!*!!!!!!!**!!!***!!!!**!***!*!**!!!!***
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X non conserved

X similar

X $\geq$ 50% conserved