```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 462 GPW51 RS00385 WP 012774894.1    ....MKAELIAVGTEILTGQIINTNAQFLSEKCAELGIDVYFHTAVGDNEGRLLSTLEVASKRSNMVVLCGGLGPTEDDLTKQTL   81
NTDB id 412 SMU RS09535 WP 002262393.1      ....MKSEIIAVGTEILTGQIVNTNSQFLSEKFAELGIDVYFQTAVGDNEERLLSVLKIAKERSDLIVLCGGLGPTEDDLTKQTL   81
NTDB id 170 SP RS09755 WP 000642718.1       ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGPTEDDLTKQTL   81
NTDB id 280 KZH43 RS08670 WP 000642700.1    ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDLTKQTL   81
NTDB id 205 SPR RS08830 WP 000642700.1      ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDLTKQTL   81
NTDB id 239 SPD RS09270 WP 000642701.1      ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDLTKQTL   81
NTDB id 538 SMSK321 RS11060 WP 000642686.1  ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEARLLSLLEIASQRSSLVILTGGLGPTEDDLTKQTL   81
NTDB id 510 SM12261 RS08320 WP 000642690.1  ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEARLLSLLEIASQRSSLVILTGGLGPTEDDLTKQTL   81
NTDB id 114558 A435 RS07620 WP 012951603.1 ...MASAEIIAVGTELLLGQIVNSNAAFISQELAADGIYVYHHTVVGDNPTRLKEVIEIAEKRSDILIFTGGLGPTEDDITKQIL   82
NTDB id 124 BSU 16930 NP 389575.2           MEFPKKAEIIAVGSELLLGQIANTNAQFISKQLAEIGVNVFYHTAVGDNPERLKQVIRIAEERSDFIIFSGGLGPTKDDLTKETI   85
consensus                                       ***!*!!!!*!*!*!!!*!*!**!*!***!**!**!***!*!!!!* !!******!**!!******!!!!*!*!!*!!***

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 462 GPW51 RS00385 WP 012774894.1    ATFLGRNLVFDELAMAKLDRFFASRPGRVRTPNNERQAQIVEGSQALQNPAGLAVGGMIEQDGVTYIVLPGPPSELKAMFSESLL  166
NTDB id 412 SMU RS09535 WP 002262393.1      AKFLKRELVFDKTAQERLDEFFASRPTSMRTPNNECQAQIIAGSQPLSNKTGLAVGGLLEADGVTYVVLPGPPSELKPMVNKELL  166
NTDB id 170 SP RS09755 WP 000642718.1       AKFLGKALVFDPQAQEKLDIFFTLRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL  166
NTDB id 280 KZH43 RS08670 WP 000642700.1    AKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL  166
NTDB id 205 SPR RS08830 WP 000642700.1      AKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL  166
NTDB id 239 SPD RS09270 WP 000642701.1      AKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQVQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL  166
NTDB id 538 SMSK321 RS11060 WP 000642686.1  AKFLGKELVFDPQAQEKLDVFFAQRPDYARTPNNERQAQIVEGATPLPNETGLAVGGILEVDGVTYVVLPGPPSELKPMVLNQLL  166
NTDB id 510 SM12261 RS08320 WP 000642690.1  AKFLGKELVFDPQAQEKLDVFFAQRPDYARTPNNERQAQLVEGAIPLPNETGLAVGGILEVDGVTYVVLPGPPSELKPMVLNQLL  166
NTDB id 114558 A435 RS07620 WP 012951603.1 ADHLQKQLVEDEYHMNKINEYFASRNRS.MTENNKLQAVIIKDSVVLNNDYGFAAGMYLKENNHTYVLLPGPPSEMKPMFTKYAN  166
NTDB id 124 BSU 16930 NP 389575.2           ANTLGRPLVLNDEAFQSIEDYFKRTKRT.MSPNNRKQALVIEGSDVLANHFGMAPGMLTEHESRYYMLLPGPPSELRPMFENEAK  169
consensus                                   !**!** !!*************!* ********!!**!*********!*!**!*!*!*********!**!!!!!!!***!******

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 462 GPW51 RS00385 WP 012774894.1    PLLS...QSQQQLYSRVLRFFGIGESQLVTVLADVIDKQTDPTLAPYAKVGEVTLRLSTKATSQEEANLRLNQLEEDILQHD...  245
NTDB id 412 SMU RS09535 WP 002262393.1      PYLS...KTSEKLYSRVLRFFGIGESHLVTLLHDLIAEQTDPTIAPYAKTGEVTIRLSTKAHRQKEADSKLDKLEKKIITID...  245
NTDB id 170 SP RS09755 WP 000642718.1       PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE  247
NTDB id 280 KZH43 RS08670 WP 000642700.1    PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE  247
NTDB id 205 SPR RS08830 WP 000642700.1      PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE  247
NTDB id 239 SPD RS09270 WP 000642701.1      PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE  247
NTDB id 538 SMSK321 RS11060 WP 000642686.1  PKLM....TGSKLYSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQVLDILENQILGRQTFE  247
NTDB id 510 SM12261 RS08320 WP 000642690.1  PKLM....TGSKLHSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQVLDILENQILGRQTFE  247
NTDB id 114558 A435 RS07620 WP 012951603.1 PLLLSENGNQNILESKIMRFFGIGESQLAADLNDLIVNQVNPTIATYAGDNEVVVRITATAKTKEEASSLVKDTEEEILRRD...  248
NTDB id 124 BSU 16930 NP 389575.2           PLLLKKMGSNEKIVSTVLRFFGIGESQLEADLEDIIDAQTNPTIAPLAADGEVTLRLTAKHADEKETERLLKETEAVILERV...  251
consensus                                   !*!*    ******!***!!!!!!!!*!***!*!*!**!**!!*!**!***!!**!*********!*** ****!**!** ****
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logo
NTDB id 462 GPW51 RS00385 WP 012774894.1     ..KLADYFYAYGEDNSLVKTVATRLAEKRQTIAIVEQGTGGLLQAELSLALADQPYFSGGKVVGQLGIES.............. 313
NTDB id 412 SMU RS09535 WP 002262393.1       ..NLADYFYGYGEENSLPQVVFDLLKEKGKTITAAESLTAGLFQARLADFAGASDIFKGGFITYSIEEKARMLGIPFEDLQLHGV 328
NTDB id 170 SP RS09755 WP 000642718.1        GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFKGGFVTYSLEEKSRMLDIPAKNLEEHGV 332
NTDB id 280 KZH43 RS08670 WP 000642700.1     GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYSLEEKSRMLDIPAKNLEEHGV 332
NTDB id 205 SPR RS08830 WP 000642700.1       GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYSLEEKSRMLDIPAKNLEEHGV 332
NTDB id 239 SPD RS09270 WP 000642701.1       GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYSLEEKSRMLDIPAKNLEEHGV 332
NTDB id 538 SMSK321 RS11060 WP 000642686.1   GLSLRDLCYGYGEEASLASIVVEELKKQGKTITAAESLTAGLFQATVADFSGASSIFKGGFVTYSLEEKSKMLDIPVKDLEEQGV 332
NTDB id 510 SM12261 RS08320 WP 000642690.1   GLSLRDLCYGYGEETSLASIVVEELKRQGKTITSAESLTAGLFQARVADFSGASSIFKGGFVTYSLEEKSKMLDIPVKDLEEQGV 332
NTDB id 114558 A435 RS07620 WP 012951603.1  ....GTFLYGYGE.VSLSELVTAMLLEKELTISAAESFTAGLFQAEIAHFPGISKIFKGGMVTYSEETKQSILQVSPQVIKEKGV 328
NTDB id 124 BSU 16930 NP 389575.2            ....GEFFYGYDD.TSLVKELSIACKEKGITISAAESFTGGLFSEWLTDHSGASKLFAGGVVCYTNDVKQNVLGVKKETLDRFGA 331
consensus                                    ********!*!****!!*************!!***!**!*!!****** *******!*!!**************** * ******

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NTDB id 462 GPW51 RS00385 WP 012774894.1     ..GWLS.EEADCIRQELQADLGLAVSVLIKPESTEDNVLAKVYLTLATPSGISQKEIDLGGYSWQYLRQLACLQAWDFVRNTL.. 393
NTDB id 412 SMU RS09535 WP 002262393.1       VSAFTAEKMAERSRQLTQADLAISLTGVAGPDSLEGQPAGTVFIGLSSSKRTMAIKVLIGGRSRSDVRYIAVLHAFNLVRQTLLS 413
NTDB id 170 SP RS09755 WP 000642718.1        VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS 417
NTDB id 280 KZH43 RS08670 WP 000642700.1     VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS 417
NTDB id 205 SPR RS08830 WP 000642700.1       VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS 417
NTDB id 239 SPD RS09270 WP 000642701.1       VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS 417
NTDB id 538 SMSK321 RS11060 WP 000642686.1   VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPAGTVFIGLAQEHGTKVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS 417
NTDB id 510 SM12261 RS08320 WP 000642690.1   VSEFTAQKMAEQARIKTQSDFGLSLTGVAGPDSLEGHPAGTVFIGLAQEQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS 417
NTDB id 114558 A435 RS07620 WP 012951603.1  VSAECAKEMAENVSRLCKTDIGISFTGVAGPDSLEGHPAGTIWIGLSVKGHETEAFQFVYGRDRNHNRRRAVKQGFQLIKQFLDA 413
NTDB id 124 BSU 16930 NP 389575.2            VSKECASELAKGVQKLTGSDIGISFTGVAGPDAQEGHEPGHVFIGISANGKEE.VHEFHFAGSRTGIRKRGAKYGCHLILKLLEQ 415
consensus                                    *********!*********!**********!***!*************************************!**************!**

logo
NTDB id 462 GPW51 RS00385 WP 012774894.1     .....   393
NTDB id 412 SMU RS09535 WP 002262393.1       HKNLV   418
NTDB id 170 SP RS09755 WP 000642718.1        D....   418
NTDB id 280 KZH43 RS08670 WP 000642700.1     D....   418
NTDB id 205 SPR RS08830 WP 000642700.1       D....   418
NTDB id 239 SPD RS09270 WP 000642701.1       D....   418
NTDB id 538 SMSK321 RS11060 WP 000642686.1   D....   418
NTDB id 510 SM12261 RS08320 WP 000642690.1   D....   418
NTDB id 114558 A435 RS07620 WP 012951603.1   N....   414
NTDB id 124 BSU 16930 NP 389575.2            K....   416
consensus                                    *
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X non conserved

X similar

X $\geq$ 50% conserved