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NTDB id 124 BSU 16930 NP 389575.2           MEFPKKAEIIAVGSELLLGQIANTNAQFISKQLAEIGVNVFYHTAVGDNPERLKQVIRIAEERSDFIIFSGGLGPTKDDLTKETI   85
NTDB id 462 GPW51 RS00385 WP 012774894.1    ....MKAELIAVGTEILTGQIINTNAQFLSEKCAELGIDVYFHTAVGDNEGRLLSTLEVASKRSNMVVLCGGLGPTEDDLTKQTL   81
NTDB id 37889 BSA RS10230 WP 001200975.1    ....MRAEIIAVGTEILTGQIVNTNAQFLSEKMAELGIDIYFQTAVGDNEERLLSLLDIASQRSQLVILCGGLGPTEDDLTKQTL   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
consensus                                      ***!*!!!!*!*!*!!!*!!!*!!*!***!!*!******!!!!!!* !!*******!**!!******!!!!*!*!!!!!*!*
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NTDB id 462 GPW51 RS00385 WP 012774894.1    ATFLGRNLVFDELAMAKLDRFFASRPGRVRTPNNERQAQIVEGSQALQNPAGLAVGGMIEQDGVTYIVLPGPPSELKAMFSESLL   166
NTDB id 37889 BSA RS10230 WP 001200975.1    AKFLGKSLTVDLLASQKLDRFFASRPQFARTPNNERQAQLVEGSIPLQNLTGLAVGGIVTSKGVQYMVLPGPPSELNPMVMEQVV   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
consensus                                   !**!** !*****!*******!* !******!!!**!******!***!*!**!*!*!*********!**!!!!!!!!**!******
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NTDB id 124 BSU 16930 NP 389575.2           PLLLKKMGSNEKIVSTVLRFFGIGESQLEADLEDIIDAQTNPTIAPLAADGEVTLRLTAKHADEKETERLLKETEAVILE.....   249
NTDB id 462 GPW51 RS00385 WP 012774894.1    PLLS...QSQQQLYSRVLRFFGIGESQLVTVLADVIDKQTDPTLAPYAKVGEVTLRLSTKATSQEEANLRLNQLEEDILQHD...   245
NTDB id 37889 BSA RS10230 WP 001200975.1    PILS...NNGTKLYSRVLRFFGIGESQLVTILEDIIKNQTDPTIAPYAKVGEVTLRLSTKAENQDEADFKLDSLEKEILALKTLD   248
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
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NTDB id 510 SM12261 RS08320 WP 000642690.1  PKLM....TGSKLHSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQVLDILENQILGRQTFE   247
consensus                                   !*!*     ******!*!!!!!!!!!!!*!***!*!*!**!**!*!!*!!*!**!!!!*!!**!*****!*** !***!**!** ****
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NTDB id 37889 BSA RS10230 WP 001200975.1  NRKLKDLLYGYGDNNSMARTVLELLKVQNKTITAAESLTAGLFQSQLAEFSGASQVFNGGFTTYSMEAKSQLLGIPKKKLQEYGV  333
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
consensus                           ********!*!****!**************!!***!**!*!!***************!  !!*******************  *  ******

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NTDB id 124 BSU 16930 NP 389575.2   VSKECASELAKGVQKLTGSDIGISFTGVAGPDAQEGHEPCHVFIGISANGKEEVHEFHFAGSR.TGIRKRGAKYGCHLILKLL.E  414
NTDB id 462 GPW51 RS00385 WP 012774894.1  ESGWLS.EEADCIRQELQADLGLAVSVLIKPESTEDNVLAKVYLTLATPSGISQKEIDLGGYSWQYLRQLACLQAWDFVRNTL..  393
NTDB id 37889 BSA RS10230 WP 001200975.1  ISHFTAEAMAQQARQLLKADFGIGLTGVAGPDELEGYPAGTVFIGIATPEGVSSIKVSIGGKSRSDVRHISTLHAFDLVRRALLK  418
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
consensus                           *!*******!**********!**********!***!******!*********************!******!***************!**

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NTDB id 124 BSU 16930 NP 389575.2   QK...   416
NTDB id 462 GPW51 RS00385 WP 012774894.1  .....   393
NTDB id 37889 BSA RS10230 WP 001200975.1  I....   419
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
consensus                           *
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X non conserved
X similar
X ≥ 50% conserved