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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 33698 BBR47 RS17075 WP 041749485.1   ....MRAEIIAVGTELLLGQIANTNAQFLSQKLAEIGVGVYFHTVVGDNTERLLQVIRLASGRSDLVIFTGGLGPTQDDLTKETV   81
NTDB id 124 BSU 16930 NP 389575.2            MEFPKKAEIIAVGSELLLGQIANTNAQFISKQLAEIGVNVFYHTAVGDNPERLKQVIRIAEERSDFIIFSGGLGPTKDDLTKETI   85
consensus                                        ***!*!!!!*!*!*!!!*!!!*!!*!***!!*!**!***!*!!!!* !!******!**!!******!!!!*!*!!!!!*!*
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NTDB id 462 GPW51 RS00385 WP 012774894.1     ATFLGRNLVFDELAMAKLDRFFASRPGRVRTPNNERQAQIVEGSQALQNPAGLAVGGMIEQDGVTYIVLPGPPSELKAMFSESLL   166
NTDB id 412 SMU RS09535 WP 002262393.1       AKFLKRELVFDKTAQERLDEFFASRPTSMRTPNNECQAQILAGSQPLSNKTGLAVGGLLEADGVTYVVLPGPPSELKPMVNKELL   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 33698 BBR47 RS17075 WP 041749485.1   AGHVGIGLETNSEAMERIEKFFSQ.RGIVMTKNNRKQALVLSGSHVFSNDFGMAPGMAIRHDSSTFVLLPGPPSEMYPMVENYVM   165
NTDB id 124 BSU 16930 NP 389575.2            ANTLGRPLVLNDEAFQSIEDYFKR.TKRTMSPNNRKQALVIEGSDVLANHFGMAPGMLTEHESRYYMLLPGPPSELRPMFENEAK   169
consensus                                    !******!*****!*******!* ********!!**!*****!*****!**!*!*!**************!!!!!!***!******
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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 33698 BBR47 RS17075 WP 041749485.1   PYLTDLLPDKQVFHSHVLRFYGIGESALEEKLLDLIEKQDNPTIAPYAKEFEVTLRITARAATVEEGETLILPVEKEILS.....   245
NTDB id 124 BSU 16930 NP 389575.2            PLLLKKMGSNEKIVSTVLRFFGIGESQLEADLEDIIDAQTNPTIAPLAADGEVTLRLTAKHADEKETERLLKETEAVILE.....   249
consensus                                    !*!*     ******!*!!!!*!!!!!*!***!*!*!**!**!!*!!*!*****!!!*!*********!*** ****!**!** ****
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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 33698 BBR47 RS17075 WP 041749485.1 ..RVGQYMYGMGENSSLHDVLVSELKKRNETIACAESCTGGAIASLITAVPGSSQVFRGGVVCYTNEVKKQLLEVPDSILQTDGA 328
NTDB id 124 BSU 16930 NP 389575.2 ..RVGEFFYGYDDTSLVKELS.IACKEKGITISAAESFTGGLFSEWLTDHSGASKLFAGGVVCYTNDVKQNVLGVKKETLDRFGA 331
consensus
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NTDB id 462 GPW51 RS00385 WP 012774894.1 ..GWLS.EEADCIRQELQADLGLAVSVLIKPESTEDNVLAKVYLTLATPSGIS.QKEIDLGGYSWQYLRQL...ACLQAWDFVRN 391
NTDB id 412 SMU RS09535 WP 002262393.1 VSAFTAEKMAERSRQLTQADLAISLTGVAGPDSLEGQPAGTVFIGLSSSKRTM.AIKVLIGGRSRSDVRYI...AVLHAFNLVRQ 409
NTDB id 170 SP RS09755 WP 000642718.1 VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTE.VIKVNIGGRSRADVRHI...AVMHAFNLVRK 413
NTDB id 280 KZH43 RS08670 WP 000642700.1 VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTE.VIKVNIGGRSRADVRHI...AVMHAFNLVRK 413
NTDB id 205 SPR RS08830 WP 000642700.1 VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTE.VIKVNIGGRSRADVRHI...AVMHAFNLVRK 413
NTDB id 239 SPD RS09270 WP 000642701.1 VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTE.VIKVNIGGRSRADVRHI...AVMHAFNLVRK 413
NTDB id 538 SMSK321 RS11060 WP 000642686.1 VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPAGTVFIGLAQEHGTK.VIKVNIGGRSRADVRHI...AVMHAFNLVRK 413
NTDB id 510 SM12261 RS08320 WP 000642690.1 VSEFTAQKMAEQARIKTQSDFGLSLTGVAGPDSLEGHPAGTVFIGLAQEQGTE.VIKVNIGGRSRADVRHI...AVMHAFNLVRK 413
NTDB id 33698 BBR47 RS17075 WP 041749485.1 VSEKTAQLLAEHVREKLGATYGISVTGVAGPDPSEGKPVGLVYVGIAAEGMPTVVKELRLAGRRHAIVGRAAKYALFYALQMQKE 413
NTDB id 124 BSU 16930 NP 389575.2 VSKECASELAKGVQKLTGSDIGISFTGVAGPDAQEGHEPGHVFIGISANGKEE.VHEFHFAGSRTGIRKRGAKYGCHLILKLLEQ 415
consensus
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NTDB id 462 GPW51 RS00385 WP 012774894.1 TL..... 393
NTDB id 412 SMU RS09535 WP 002262393.1 TLLSHKNLV 418
NTDB id 170 SP RS09755 WP 000642718.1 ALLSD.... 418
NTDB id 280 KZH43 RS08670 WP 000642700.1 ALLSD.... 418
NTDB id 205 SPR RS08830 WP 000642700.1 ALLSD.... 418
NTDB id 239 SPD RS09270 WP 000642701.1 ALLSD.... 418
NTDB id 538 SMSK321 RS11060 WP 000642686.1 ALLSD.... 418
NTDB id 510 SM12261 RS08320 WP 000642690.1 ALLSD.... 418
NTDB id 33698 BBR47 RS17075 WP 041749485.1 R..... 414
NTDB id 124 BSU 16930 NP 389575.2 K..... 416
consensus
X non conserved
X similar
X ≥ 50% conserved