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NTDB id 124 BSU 16930 NP 389575.2              MEFPKKAEIIAVGSELLLGQIANTNAQFISKQLAEIGVNVFYHTAVGDNPERLKQVIRIAEERSDFIIFSGGLGPTKDDL   80
NTDB id 390665 F8M46 RS04610 WP 014569352.1    ....MQAEIIAIGTEILMGQITNTNGAYMAKQLATLGIASYHQQVVGDNAKRLADAISLAEQRSDIVILIGGLGPTPDDL   76
NTDB id 462 GPW51 RS00385 WP 012774894.1       ....MKAELIAVGTEILTGQIINTNAQFLSEKCAELGIDVYFHTAVGDNEGRLLSTLEVASKRSNMVVLCGGLGPTEDDL   76
NTDB id 412 SMU RS09535 WP 002262393.1         ....MKSEIIAVGTEILTGQIVNTNSQFLSEKFAELGIDVYFQTAVGDNEERLLSVLKIAKERSDLIVLCGGLGPTEDDL   76
NTDB id 170 SP RS09755 WP 000642718.1          ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGPTEDDL   76
NTDB id 280 KZH43 RS08670 WP 000642700.1       ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDL   76
NTDB id 205 SPR RS08830 WP 000642700.1         ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDL   76
NTDB id 239 SPD RS09270 WP 000642701.1         ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDL   76
NTDB id 538 SMSK321 RS11060 WP 000642686.1     ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEARLLSLLEIASQRSSLVILTGGLGPTEDDL   76
NTDB id 510 SM12261 RS08320 WP 000642690.1     ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEARLLSLLEIASQRSSLVILTGGLGPTEDDL   76
consensus                                       ***!*!!*!*!*!*!!!!*!!!*********!**!********!!!!* !!*******!**!!******!!!!*!*!!!
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NTDB id 124 BSU 16930 NP 389575.2              TKETIANTLGRPLVLNDEAFQSIEDYFKR.TKRTMSPNNRKQALVIEGSDVLANHFGMAPGMLTEHESRYYMLLPGPPSE  159
NTDB id 390665 F8M46 RS04610 WP 014569352.1    TKQTLAAHLNLPLVEDADAMAKLAARVKQ.QQRPMTPNNRLQAMYPQGAIVLANRVGLAVGAWVEQRQHAYVLLPGPPKE  155
NTDB id 462 GPW51 RS00385 WP 012774894.1       TKQTLATFLGRNLVFDELAMAKLDRFFASRPGRVRTPNNERQAQIVEGSQALQNPAGLAVGGMIEQDGVTYIVLPGPPSE  156
NTDB id 412 SMU RS09535 WP 002262393.1         TKQTLAKFLKRELVFDKTAQERLDEFFASRPTSMRTPNNECQAQIIAGSQPLSNKTGLAVGGLLEADGVTYVVLPGPPSE  156
NTDB id 170 SP RS09755 WP 000642718.1          TKQTLAKFLGKALVFDPQAQEKLDIFFTLRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSE  156
NTDB id 280 KZH43 RS08670 WP 000642700.1       TKQTLAKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSE  156
NTDB id 205 SPR RS08830 WP 000642700.1         TKQTLAKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSE  156
NTDB id 239 SPD RS09270 WP 000642701.1         TKQTLAKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQVQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSE  156
NTDB id 538 SMSK321 RS11060 WP 000642686.1     TKQTLAKFLGKELVFDPQAQEKLDVFFAQRPDYARTPNNERQAQIVEGATPLPNETGLAVGGILEVDGVTYVVLPGPPSE  156
NTDB id 510 SM12261 RS08320 WP 000642690.1     TKQTLAKFLGKELVFDPQAQEKLDVFFAQRPDYARTPNNERQAQLVEGAIPLPNETGLAVGGILEVDGVTYVVLPGPPSE  156
consensus                                       !!*!*!**!**  !!*****!*********** ********!!!**!******!***!*!**!*!*!***!*****!**!!!!!*!
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NTDB id 124 BSU 16930 NP 389575.2              LRPMFENEAKPLLLKKMGSNEKIVSTVLRFFGIGESQLEADLEDIIDAQTNPTIAPLAADGEVTLRLTAKHADEKETERL  239
NTDB id 390665 F8M46 RS04610 WP 014569352.1    FVPMVDHELLPRLAKYSGHQEVLESRVMRFFGIGESQLVTDLSDLIANQTNPTLATYIKDHEVTVRVTASGKTQAEAAAK  235
NTDB id 462 GPW51 RS00385 WP 012774894.1       LKAMFSESLLPLLSQ...SQQQLYSRVLRFFGIGESQLVTVLADVIDKQTDPTLAPYAKVGEVTLRLSTKATSQEEANLR  233
NTDB id 412 SMU RS09535 WP 002262393.1         LKPMVNKELLPYLSK...TSEKLYSRVLRFFGIGESHLVTLLHDLIAEQTDPTIAPYAKTGEVTIRLSTKAHRQKEADSK  233
NTDB id 170 SP RS09755 WP 000642718.1          LKPMVLNQLLPKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQA  232
NTDB id 280 KZH43 RS08670 WP 000642700.1       LKPMVLNQLLPKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQA  232
NTDB id 205 SPR RS08830 WP 000642700.1         LKPMVLNQLLPKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQA  232
NTDB id 239 SPD RS09270 WP 000642701.1         LKPMVLNQLLPKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQA  232
NTDB id 538 SMSK321 RS11060 WP 000642686.1     LKPMVLNQLLPKLM....TGSKLYSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQV  232
NTDB id 510 SM12261 RS08320 WP 000642690.1     LKPMVLNQLLPKLM....TGSKLHSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQV  232
consensus                                      ***!******!*!*     ******!*!*!!!!!!!!!*!***!*!*!**!**!!*!*****!!!*!**********!***
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NTDB id 124 BSU 16930 NP 389575.2       LKETEAVILER.......VGEFFYGYDD.TSLVKELSIACKEKGITISAAESFTGGLFSEWLTDHSGASKLFAGGVVCYT  311
NTDB id 390665 F8M46 RS04610 WP 014569352.1 LEPMIGIIMDR.......EGRYFYGYGDDNSLAQELVKALAASDKQISAAESLTAGAFQAALGDVPGVSAYFKGGFVTYA  308
NTDB id 462 GPW51 RS00385 WP 012774894.1 LNQLEEDILQHD.....KLADYFYAYGEDNSLVKTVATRLAEKRQTIAIVEQGTGGLLQAELSLALADQPYFSGGKVVGQ  308
NTDB id 412 SMU RS09535 WP 002262393.1  LDKLEKKITTID.....NLADYFYGYGEENSLPQVVFDLLKEKGKTITAAESLTAGLFQARLADFAGASDIFKGGFITYS  308
NTDB id 170 SP RS09755 WP 000642718.1   LDILENQILDCQTFEGISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFKGGFVTYS  312
NTDB id 280 KZH43 RS08670 WP 000642700.1 LDILENQILDCQTFEGISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYS  312
NTDB id 205 SPR RS08830 WP 000642700.1  LDILENQILDCQTFEGISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYS  312
NTDB id 239 SPD RS09270 WP 000642701.1  LDILENQILDCQTFEGISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYS  312
NTDB id 538 SMSK321 RS11060 WP 000642686.1 LDILENQILGRQTFEGLSLRDLCYGYGEEASLASIVVEELKKQGKTITAAESLTAGLFQATVADFSGASSIFKGGFVTYS  312
NTDB id 510 SM12261 RS08320 WP 000642690.1 LDILENQILGRQTFEGLSLRDLCYGYGEETSLASIVVEELKRQGKTITSAESLTAGLFQARVADFSGASSIFKGGFVTYS  312
consensus                               !******!**  **************!*!****!!***************!***!**!*!****************!*!!*****

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NTDB id 124 BSU 16930 NP 389575.2       NDVKQNVLGVKKETLDRFGAVSKECASELAKGVQKLIGSDIGISFTGVAGPDAQEGHEPGHVFIGISANGKEEV.HEFHF  390
NTDB id 390665 F8M46 RS04610 WP 014569352.1 LATKAAFLNIDARQLSEHGVVSEFTAKAMAEHARQRAAADIAVSFTGVAGPDKLEGQPAGTVWIGLARLGEKPIAQVYHF  388
NTDB id 462 GPW51 RS00385 WP 012774894.1 LGIES.................GWLS.EEADCIRQELQADLGLAVSVLIKPESTEDNVLAKVYLTLATPSGISQKEIDLG  370
NTDB id 412 SMU RS09535 WP 002262393.1  IEEKARMLGIPFEDLQLHGVVSAFTAEKMAERSRQLTQADLAISLTGVAGPDSLEGQPAGTVFIGLSSSKRTMAIKVLIG  388
NTDB id 170 SP RS09755 WP 000642718.1   LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIG  392
NTDB id 280 KZH43 RS08670 WP 000642700.1 LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIG  392
NTDB id 205 SPR RS08830 WP 000642700.1  LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIG  392
NTDB id 239 SPD RS09270 WP 000642701.1  LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIG  392
NTDB id 538 SMSK321 RS11060 WP 000642686.1 LEEKSKMLDIPVKDLEEQGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPAGTVFIGLAQEHGTKVIKVNIG  392
NTDB id 510 SM12261 RS08320 WP 000642690.1 LEEKSKMLDIPVKDLEEQGVVSEFTAQKMAEQARIKTQSDFGLSLTGVAGPDSLEGHPAGTVFIGLAQEQGTEVIKVNIG  392
consensus                               **********************************!**********!***********!***!******!*******************

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NTDB id 124 BSU 16930 NP 389575.2       AGSRTGIRKRGAKYGCHLILKLLEQK....   416
NTDB id 390665 F8M46 RS04610 WP 014569352.1 PGGRNDVRKRAVMTGMMMVLKRLRE.....   413
NTDB id 462 GPW51 RS00385 WP 012774894.1 GYSWQYLRQLACLQAWDFVRNTL.......   393
NTDB id 412 SMU RS09535 WP 002262393.1  GRSRSDVRYIAVLHAFNLVRQTLLSHKNLV   418
NTDB id 170 SP RS09755 WP 000642718.1   GRSRADVRHIAVMHAFNLVRKALLSD....   418
NTDB id 280 KZH43 RS08670 WP 000642700.1 GRSRADVRHIAVMHAFNLVRKALLSD....   418
NTDB id 205 SPR RS08830 WP 000642700.1  GRSRADVRHIAVMHAFNLVRKALLSD....   418
NTDB id 239 SPD RS09270 WP 000642701.1  GRSRADVRHIAVMHAFNLVRKALLSD....   418
NTDB id 538 SMSK321 RS11060 WP 000642686.1 GRSRADVRHIAVMHAFNLVRKALLSD....   418
NTDB id 510 SM12261 RS08320 WP 000642690.1 GRSRADVRHIAVMHAFNLVRKALLSD....   418
consensus                               *******!**************!***
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X non conserved
X similar
X ≥ 50% conserved