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logo
NTDB id 114 BSU 16110 NP 389493.1          ..MDQAAVCLTICRINQL....LSPSLLLKWWKADPSMSL............TSPVLQTVTRDQIKAAALKNEIEQFYPK   62
NTDB id 1250 GC085 RS13065 WP 027219989.1  ..MNNLQPLLALNRMKRIG.....PRTVLKLQKRWPDLNLMFQLSSVDLEEAGLPSWLAQTIKNFDPDFIKTDLNWL...   70
NTDB id 599 KW2 RS05940 WP 021037268.1     .MITNFDL....FRWKKAGMTNLGVNKLLKFFRKYDRKISLRQM..GQVAQVKSIPNFIEQYKNQDVKKLRADYKKF...   70
NTDB id 525 SMSK321 RS06295 WP 000705298.1 MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLEKEFKKI...   71
NTDB id 267 KZH43 RS05590 WP 000705306.1   MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF...   71
NTDB id 226 SPD RS05990 WP 000705306.1     MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF...   71
NTDB id 192 SPR RS05715 WP 000705306.1     MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF...   71
NTDB id 157 SP RS06205 WP 000705306.1      MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF...   71
NTDB id 497 SM12261 RS05565 WP 000705318.1 MKITNYEI....YKLKKSGLTNQQVLAVLEYGENVDQELLLGDI..AEISGCRNPAVFMERYFQIDDAHLEKEFQKF...   71
NTDB id 1140950 DQM62 RS04360 WP 012775129.1 ..MNNFEL....FKWKKAGLTNLNVNKVLAYQEKHGKKLTLRNV..AVVSECKNPVLFMENYKNLDTKACREEFNKY...   69
NTDB id 407 SMU RS04605 WP 002262865.1     ..MDNFQL....FKLKKAGLTNLNILNIIDYEERTQKSLSLRDM..AVVSKNKKPLIFMEHYKNLDSKALRKEFNRF...   69
consensus                                  *******    ******************************  ************************ ******

logo
NTDB id 114 BSU 16110 NP 389493.1          LPRVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVVNHLTKEICRKGW   142
NTDB id 1250 GC085 RS13065 WP 027219989.1  .S......SSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQ.PSLAIVGSRNASVTGNENARAFSREISRHGV   142
NTDB id 599 KW2 RS05940 WP 021037268.1     .S............SFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIVTELNQ.SF   135
NTDB id 525 SMSK321 RS06295 WP 000705298.1 .P............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKIIQGLEN.EL   136
NTDB id 267 KZH43 RS05590 WP 000705306.1   .P............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLEN.EL   136
NTDB id 226 SPD RS05990 WP 000705306.1     .P............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLEN.EL   136
NTDB id 192 SPR RS05715 WP 000705306.1     .P............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLEN.EL   136
NTDB id 157 SP RS06205 WP 000705306.1      .P............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLEN.EL   136
NTDB id 497 SM12261 RS05565 WP 000705318.1 .P............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLEN.EL   136
NTDB id 1140950 DQM62 RS04360 WP 012775129.1 .P............SFSILDDIYPLALKQIYNPPVLLFYQGDLELLEK.LKLAVVGTRNASKNGIQSVQKIIKELSN.RF   134
NTDB id 407 SMU RS04605 WP 002262865.1     .P............SLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKIIQDLSK.QF   134
consensus                                   *            *******!!**!**!***!******!****!** *****!!*! ****!************ **

logo
NTDB id 114 BSU 16110 NP 389493.1          VIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHMAKHHLLSEHPPETKPQKWHFPMRNRIISGLS   222
NTDB id 1250 GC085 RS13065 WP 027219989.1  SIVSGLALGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQITENGLLLSEFPLKSPPIAGHFPLRNRIISGLS   222
NTDB id 599 KW2 RS05940 WP 021037268.1     TIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPERNRIIAGLS   215
NTDB id 525 SMSK321 RS06295 WP 000705298.1 VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC   216
NTDB id 267 KZH43 RS05590 WP 000705306.1   VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC   216
NTDB id 226 SPD RS05990 WP 000705306.1     VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC   216
NTDB id 192 SPR RS05715 WP 000705306.1     VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC   216
NTDB id 157 SP RS06205 WP 000705306.1      VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC   216
NTDB id 497 SM12261 RS05565 WP 000705318.1 VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC   216
NTDB id 1140950 DQM62 RS04360 WP 012775129.1 VIVSGLARGIDTAAHIASLKNGGQTIAVIGTGLDNIYPKENKDLQTYIGKHHLVLTEYEAGAQPLKYHFPERNRIIAGLV   214
NTDB id 407 SMU RS04605 WP 002262865.1     VIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLLSEYEAQSQPLKYHFPERNRIIAGLS   214
consensus                                  *!*!!!!*!!!***!*********!!*!***!****!!****************!*!******!***!!!*!!!!!*!!*
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logo
NTDB id 114 BSU 16110 NP 389493.1          EGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPERNVQYTEPF.....   297
NTDB id 1250 GCO85 RS13065 WP 027219989.1  LCILVIEAAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHHQFTSNKPIFSL   302
NTDB id 599 KW2 RS05940 WP 021037268.1     RGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN.............   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1 RGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...............   282
NTDB id 267 KZH43 RS05590 WP 000705306.1   RGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...............   282
NTDB id 226 SPD RS05990 WP 000705306.1     RGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...............   282
NTDB id 192 SPR RS05715 WP 000705306.1     RGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...............   282
NTDB id 157 SP RS06205 WP 000705306.1      RGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...............   282
NTDB id 497 SM12261 RS05565 WP 000705318.1 RGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...............   282
NTDB id 1140950 DQM62 RS04360 WP 012775129.1 EGLVVCEAKMRSGSLITCERALEEGREVYAIPGSIMDGKSDGCHHLIQEGAKCVTSGLDIISEYQF...............   280
NTDB id 407 SMU RS04605 WP 002262865.1     QGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF...............   280
consensus                                  ****!******!!!!!!***!*!**!*****!!********!***!*!*!!!******!***!***

logo
                                           ASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER
NTDB id 114 BSU 16110 NP 389493.1          ............................................................   297
NTDB id 1250 GCO85 RS13065 WP 027219989.1  ASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER   361
NTDB id 599 KW2 RS05940 WP 021037268.1     ............................................................   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1 ............................................................   282
NTDB id 267 KZH43 RS05590 WP 000705306.1   ............................................................   282
NTDB id 226 SPD RS05990 WP 000705306.1     ............................................................   282
NTDB id 192 SPR RS05715 WP 000705306.1     ............................................................   282
NTDB id 157 SP RS06205 WP 000705306.1      ............................................................   282
NTDB id 497 SM12261 RS05565 WP 000705318.1 ............................................................   282
NTDB id 1140950 DQM62 RS04360 WP 012775129.1 ..........................................................   280
NTDB id 407 SMU RS04605 WP 002262865.1     ............................................................   280
consensus
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X non conserved

X similar

X $\geq$ 50% conserved