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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 1129492 STREPSUIS RS05385 WP 012775129.1   ..MNNFEL....FKWKKAGLTNLNVNKVLAYQEKHGKKLTLRNV..AVVSECKNPVLFMENYKNLDTKACREEFNKY...   69
NTDB id 407 SMU RS04605 WP 002262865.1             ..MDNFQL....FKLKKAGLTNLNILNIIDYEERTQKSLSLRDM..AVVSKNKKPLIFMEHYKNLDSKALRKEFNRF...   69
consensus                                          ********    ******************************  ************************ ******
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logo
NTDB id 114 BSU 16110 NP 389493.1                  LPRVLAAYREQGINTIPLSSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVVNHLTKEICRKGW   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 1129492 STREPSUIS RS05385 WP 012775129.1   .P...........SFSILDDIYPLALKQIYNPPVLLFYQGDLELLEK.LKLAVVGTRNASKNGIQSVQKIIKELSN.RF   134
NTDB id 407 SMU RS04605 WP 002262865.1             .P...........SLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKIIQDLSK.QF   134
consensus                                           *           ********!!**!**!***!******!****!** *****!!*! ****!*************  **
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logo
NTDB id 114 BSU 16110 NP 389493.1                  VIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHMAKHHLLLSEHPPETKPQKWHFPMRNRIISGLS   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 1129492 STREPSUIS RS05385 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 1129492 STREPSUIS RS05385 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 1129492 STREPSUIS RS05385 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