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logo
NTDB id 114 BSU 16110 NP 389493.1          ..MDQAAVCLTICRINQ........LLSPSLLLKWWKADPSMS.........LTSPVLQTVTRDQIKAAALKNEIEQFYP    61
NTDB id 1388 A4U84 RS04945 WP 062924099.1  ..MTHLTKLLALLQVPQLGAQRIGRLLSEVDFGEFCQ.......YDKTALKQMGWNERQIQRWFNPEHKWIDQALQWA..    69
NTDB id 1250 GC085 RS13065 WP 027219989.1  ..MNNLQPLLALNRMKRIGP......RTVLKLQKRWPDLNLMFQLSSVDLEEAGLPSWLAQTIKNFDPDFIKTDLNWL..    70
NTDB id 599 KW2 RS05940 WP 021037268.1     .MITNFD....LFRWKKAGMTNLGV.NKLLKFFRKYDRKISLRQM..GQVAQVKSIPNFIEQYKNQDVKKLRADYKKF..    70
NTDB id 525 SMSK321 RS06295 WP 000705298.1 MKITNYE....IYKLKKSGLTNQQI.LKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLEKEFKKI..    71
NTDB id 267 KZH43 RS05590 WP 000705306.1   MKITNYE....IYKLKKSGLTNQQI.LKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF..    71
NTDB id 226 SPD RS05990 WP 000705306.1     MKITNYE....IYKLKKSGLTNQQI.LKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF..    71
NTDB id 192 SPR RS05715 WP 000705306.1     MKITNYE....IYKLKKSGLTNQQI.LKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF..    71
NTDB id 157 SP RS06205 WP 000705306.1      MKITNYE....IYKLKKSGLTNQQI.LKVLEYGENVDQELLLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKF..    71
NTDB id 497 SM12261 RS05565 WP 000705318.1 MKITNYE....IYKLKKSGLTNQQV.LAVLEYGENVDQELLLGDI..AEISGCRNPAVFMERYFQIDDAHLEKEFQKF..    71
NTDB id 1063710 ACG3JH RS02440 WP 003106913.1 ..MNNFE....LYKLKKAGLENHHI.LKIIAYQEKYDKKLSLRNM..ALISECKQPIIFIENYKSLDIGAIKNEFNLF..    69
NTDB id 407 SMU RS04605 WP 002262865.1     ..MDNFQ....LFKLKKAGLTNLNI.LNIIDYEERTQKSLSLRDM..AVVSKNKKPLIFMEHYKNLDSKALRKEFNRF..    69
consensus                                   *****     ****** **** ** ********  * **** **   **** **** ********** * * ******

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NTDB id 114 BSU 16110 NP 389493.1          KLPRVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVVNHLTKEICRKG   141
NTDB id 1388 A4U84 RS04945 WP 062924099.1  ..E......Q.DQQQILTLFDEDYPFLLKQISTAPPVLFVRGNVESLSL.PQIAIVGSRDYSHYGEHWAGHFSAELVKHQ   139
NTDB id 1250 GC085 RS13065 WP 027219989.1  ..S......SSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQ.PSLAIVGSRNASVTGNENARAFSREISRHG   141
NTDB id 599 KW2 RS05940 WP 021037268.1     ..S......S......FSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIVTELN.QS   134
NTDB id 525 SMSK321 RS06295 WP 000705298.1 ..P......S......FSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKIQGLE.NE   135
NTDB id 267 KZH43 RS05590 WP 000705306.1   ..P......S......FSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NE   135
NTDB id 226 SPD RS05990 WP 000705306.1     ..P......S......FSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NE   135
NTDB id 192 SPR RS05715 WP 000705306.1     ..P......S......FSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NE   135
NTDB id 157 SP RS06205 WP 000705306.1      ..P......S......FSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NE   135
NTDB id 497 SM12261 RS05565 WP 000705318.1 ..P......S......FSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NE   135
NTDB id 1063710 ACG3JH RS02440 WP 003106913.1 ..P......S......ISIFDKNYPISLKSIYNPPVLLFYQGDISLLNQ.PILGVVGSRQATKKGIHAVDKIIEELN.SK   133
NTDB id 407 SMU RS04605 WP 002262865.1     ..P......S......LSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKIIQDLS.KQ   133
consensus                                   *      *      ****** !!**! *!***!******!****!*  *****!!*!  ** ! ******** *  *

logo
NTDB id 114 BSU 16110 NP 389493.1          WVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHMAK.HHILLSEHPPETKPQKWHFPMRNRIISG   220
NTDB id 1388 A4U84 RS04945 WP 062924099.1  LAVTSGLAIGIDGFCHQRAANENGITIAVLGSGLDQVYPARHKKLAEQIVETSGALVSEFFPSQPPIAENFPRRNRIISG   219
NTDB id 1250 GC085 RS13065 WP 027219989.1  VSIVSGLALGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQITE.NGLLLSEFPLKSPPIAGHFPLRNRIISG   220
NTDB id 599 KW2 RS05940 WP 021037268.1     FTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAK.YQLVLSEYSLGEKPLKYHFPERNRIIAG   213
NTDB id 525 SMSK321 RS06295 WP 000705298.1 LVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISN.DHLVLSEYGPGEQPLKFHFPARNRIIAG   214
NTDB id 267 KZH43 RS05590 WP 000705306.1   LVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGN.DHLVLSEYGPGEQPLKFHFPARNRIIAG   214
NTDB id 226 SPD RS05990 WP 000705306.1     LVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGN.DHLVLSEYGPGEQPLKFHFPARNRIIAG   214
NTDB id 192 SPR RS05715 WP 000705306.1     LVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGN.DHLVLSEYGPGEQPLKFHFPARNRIIAG   214
NTDB id 157 SP RS06205 WP 000705306.1      LVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGN.DHLVLSEYGPGEQPLKFHFPARNRIIAG   214
NTDB id 497 SM12261 RS05565 WP 000705318.1 LVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGN.DHLVLSEYGPGEQPLKFHFPARNRIIAG   214
NTDB id 1063710 ACG3JH RS02440 WP 003106913.1 FVIVSGLARGIDTAAHFAAIKNGGKTIAVIGSGMTKFYPKENHRLQKYIAN.NHLLISEYGPAEEPLAYHFPQRNRIIAG   212
NTDB id 407 SMU RS04605 WP 002262865.1     FVIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAK.NHLLLSEYEAQSQPLKYHFPERNRIIAG   212
consensus                                  ****!!!!!*!!!***!********!!*!***!****!!* **********  ****!!******!****!! !!!!!*!
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logo
                                                  LSRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDYLAEEEF
NTDB id 114 BSU 16110 NP 389493.1                 LSEGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQGGAKAIWSAEDIFEELPERNVQYTEPF...   297
NTDB id 1388 A4U84 RS04945 WP 062924099.1         LSLGTLVIEATVNSGSLITARYALEQGREVFALPNSVQNPYSEGCHKLIKEGALLVENVEDILEAIAWQRQSVHIQPSLF   299
NTDB id 1250 GC085 RS13065 WP 027219989.1         LSLCILVIEAAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQGGAKLVTSVADVLDELKIEHHQFTSNKPIF   300
NTDB id 599 KW2 RS05940 WP 021037268.1            LSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQGGAKLVYQAQDILEEYLYN...........   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1        LCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF............   282
NTDB id 267 KZH43 RS05590 WP 000705306.1          LCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF............   282
NTDB id 226 SPD RS05990 WP 000705306.1            LCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF............   282
NTDB id 192 SPR RS05715 WP 000705306.1            LCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF............   282
NTDB id 157 SP RS06205 WP 000705306.1             LCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF............   282
NTDB id 497 SM12261 RS05565 WP 000705318.1        LCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF............   282
NTDB id 1063710 ACG3JH RS02440 WP 003106913.1     LSLGIIVCEARVRSGSLITCKYALDEGRDIFAIPGTIVNNNSEGCHQLIKEGAKCVTNGLDILSEYQ.............   279
NTDB id 407 SMU RS04605 WP 002262865.1            LSQGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF............   280
consensus                                         ! ****!*****!!!!!!***!****!*****!********!***!***!!*******!** ** *
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logo
                                                  STKDLKPKQAVKSEPKFAKNLPELTACRERNLYEPISLEETTSYDGTADRIDYGVEAVTSGLAELELLKGXVTRVRGGYYRTEYER
NTDB id 114 BSU 16110 NP 389493.1                 ..........................................................................................   297
NTDB id 1388 A4U84 RS04945 WP 062924099.1         DTKPKQAVKSEPKFAKNLPELTACQQQLFEQISLEPISVDDLAKATDMAVETALIELLNLELLGVVKQVRGGYVIT....   375
NTDB id 1250 GC085 RS13065 WP 027219989.1         SLA...................SGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER   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 1063710 ACG3JH RS02440 WP 003106913.1     ..........................................................................................   279
NTDB id 407 SMU RS04605 WP 002262865.1            ..........................................................................................   280
consensus
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X non conserved

X similar

X $\geq$ 50% conserved