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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1073 ABD1 RS00865 WP 015451369.1      MLTQLSSHHYHTLKVWYLVQHSLVSFKKIIDYFGNCEKATQPDGLAKWSSLGLHAN...............HLKRVNEFQT    66
NTDB id 114 BSU 16110 NP 389493.1             ....................MDQAAVCLTICRINQLLSPSLLLK...WWKADPSMSLTSPV.LQ........TVTRDQIKA    49
NTDB id 1250 GC085 RS13065 WP 027219989.1     ....................MNNLQPLL.ALNRMKRIGPRTVLKLQKRWPDLNLMFQLSSVDLEEAGLPSWLAQTIKNFDP    60
NTDB id 599 KW2 RS05940 WP 021037268.1        .....MITNFDLFRWKKAGMTNLGVNK.LLKFFRKYDRKISL.........RQMGQ.....VAQVKSIPNFIEQYKNQDV    60
NTDB id 525 SMSK321 RS06295 WP 000705298.1    ....MKITNYEIYKLKKSGLTNQQILK.VLEYGENVDQELLL.........GDIAD.....ISGCRNPAVFMERYFQIDD    61
NTDB id 267 KZH43 RS05590 WP 000705306.1      ....MKITNYEIYKLKKSGLTNQQILK.VLEYGENVDQELLL.........GDIAD.....ISGCRNPAVFMERYFQIDD    61
NTDB id 226 SPD RS05990 WP 000705306.1        ....MKITNYEIYKLKKSGLTNQQILK.VLEYGENVDQELLL.........GDIAD.....ISGCRNPAVFMERYFQIDD    61
NTDB id 192 SPR RS05715 WP 000705306.1        ....MKITNYEIYKLKKSGLTNQQILK.VLEYGENVDQELLL.........GDIAD.....ISGCRNPAVFMERYFQIDD    61
NTDB id 157 SP RS06205 WP 000705306.1         ....MKITNYEIYKLKKSGLTNQQILK.VLEYGENVDQELLL.........GDIAD.....ISGCRNPAVFMERYFQIDD    61
NTDB id 497 SM12261 RS05565 WP 000705318.1    ....MKITNYEIYKLKKSGLTNQQVLA.VLEYGENVDQELLL.........GDIAE.....ISGCRNPAVFMERYFQIDD    61
NTDB id 1139224 DQM97 RS04555 WP 002962319.1 ......MNNFELFKLKQAGLTNLQILN.ILDYRKEIGKSLSL.........RDMAV.....VSQTSKAGHFMETYKHLDL    59
NTDB id 407 SMU RS04605 WP 002262865.1        ......MDNFQLFKLKKAGLTNLNILN.IIDYEERTQKSLSL.........RDMAV.....VSKNKKPLIFMEHYKNLDS    59
consensus                                         * *********** **** **** **** ****  ***         ****      **  * ******** ***
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1073 ABD1 RS00865 WP 015451369.1      TQGQAQ.......FEQLVQQVRQHTDFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQ.PQIAIVGSRKPSPHGRQV   138
NTDB id 114 BSU 16110 NP 389493.1             AALKNEIEQFYPKLPRVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQV   129
NTDB id 1250 GC085 RS13065 WP 027219989.1     DFIKTDLNW....LS......SSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQ.PSLAIVGSRNASVTGNEN   129
NTDB id 599 KW2 RS05940 WP 021037268.1        KKLRADYKK....FS............SFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKS   123
NTDB id 525 SMSK321 RS06295 WP 000705298.1    AHLEKEFKK....IP............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKS   124
NTDB id 267 KZH43 RS05590 WP 000705306.1      AHLSKEFQK....FP............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKS   124
NTDB id 226 SPD RS05990 WP 000705306.1        AHLSKEFQK....FP............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKS   124
NTDB id 192 SPR RS05715 WP 000705306.1        AHLSKEFQK....FP............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKS   124
NTDB id 157 SP RS06205 WP 000705306.1         AHLSKEFQK....FP............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKS   124
NTDB id 497 SM12261 RS05565 WP 000705318.1    AHLEKEFQK....FP............SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKS   124
NTDB id 1139224 DQM97 RS04555 WP 002962319.1 KDLRQQFNR....FP............SLSILDKEYPEDLAQIYNPPVLLFYQGDLTLLDA.PKLSLVGSRNCTQMGTKS   122
NTDB id 407 SMU RS04605 WP 002262865.1        KALRKEFNR....FP............SLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAA   122
consensus                                     * * *****    **           ******* !!**! **** !******!****!*  *****!!*! **  ! **
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1073 ABD1 RS00865 WP 015451369.1      AYDFAYYLSEKGFFISSGLAYGIDEAAHQGAS.AHQRTIAVTGTGLDTTYPAQNKKLAEYILAQNGAIITEFLPGTPPLQ   217
NTDB id 114 BSU 16110 NP 389493.1             VNHLTKEICRKGWVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHM.AKHHILLSEHPPETKPQK   208
NTDB id 1250 GC085 RS13065 WP 027219989.1     ARAFSREISRHGVSIVSGLALGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQI.TENGLLLSEFPLKSPPIA   208
NTDB id 599 KW2 RS05940 WP 021037268.1        VQKIVTELN.QSFTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYL.AKYQLVLSEYSLGEKPLK   201
NTDB id 525 SMSK321 RS06295 WP 000705298.1    VEKIIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.SNDHLVLSEYGPGEQPLK   202
NTDB id 267 KZH43 RS05590 WP 000705306.1      VEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLK   202
NTDB id 226 SPD RS05990 WP 000705306.1        VEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLK   202
NTDB id 192 SPR RS05715 WP 000705306.1        VEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLK   202
NTDB id 157 SP RS06205 WP 000705306.1         VEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLK   202
NTDB id 497 SM12261 RS05565 WP 000705318.1    VEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLK   202
NTDB id 1139224 DQM97 RS04555 WP 002962319.1 VQKIIRNLE.NRFVIVSGLARGIDTAAHIACLKNGGKTIAVVGTGLDVYYPKENRDLQDYL.AKHHLVLSEYEPGQDPLK   200
NTDB id 407 SMU RS04605 WP 002262865.1        VKKIIQDLS.KQFVIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYI.AKNHLLLSEYEAQSQPLK   200
consensus                                     * **** ** * **!*!!!!*!!!***!**** ****!!*!***!****!!* ******** ** *****!* ****!**
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logo

NTDB id 1073 ABD1 RS00865 WP 015451369.1      QHFPRRNRIVSGLSLGVLVVEATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLAL   297
NTDB id 114 BSU 16110 NP 389493.1             WHFPMRNRIISGLSEGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPE   288
NTDB id 1250 GCO85 RS13065 WP 027219989.1     GHFPLRNRIISGLSLCILVIEAAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKI   288
NTDB id 599 KW2 RS05940 WP 021037268.1        YHFPERNRIIAGLSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLY   281
NTDB id 525 SMSK321 RS06295 WP 000705298.1    FHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF   282
NTDB id 267 KZH43 RS05590 WP 000705306.1      FHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF   282
NTDB id 226 SPD RS05990 WP 000705306.1        FHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF   282
NTDB id 192 SPR RS05715 WP 000705306.1        FHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF   282
NTDB id 157 SP RS06205 WP 000705306.1         FHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF   282
NTDB id 497 SM12261 RS05565 WP 000705318.1    FHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF   282
NTDB id 1139224 DQM97 RS04555 WP 002962319.1 FHFPERNRIIAGLSRGTVVVQAKQRSGSLITCERAMEEGRDVFAVPGNIIDGQSDGCHHLIQEGAKCIMTGQDILAEYE.   279
NTDB id 407 SMU RS04605 WP 002262865.1        YHFPERNRIIAGLSQGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF   280
consensus                                     *!!! !!!!**!! ****!******!!!!!!***!*!********!!********!***!***!!**************

logo

NTDB id 1073 ABD1 RS00865 WP 015451369.1      PTQWQSQQQNQTEEANTNTPEIREHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLYLRCRS.   376
NTDB id 114 BSU 16110 NP 389493.1             RNVQYTEPF.........................................................................   297
NTDB id 1250 GCO85 RS13065 WP 027219989.1     EHHQFTSNKPI........FSLASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYE   360
NTDB id 599 KW2 RS05940 WP 021037268.1        N.................................................................................   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 1139224 DQM97 RS04555 WP 002962319.1  .................................................................................   279
NTDB id 407 SMU RS04605 WP 002262865.1        .................................................................................   280
consensus

logo

NTDB id 1073 ABD1 RS00865 WP 015451369.1      .   376
NTDB id 114 BSU 16110 NP 389493.1             .   297
NTDB id 1250 GCO85 RS13065 WP 027219989.1     R   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 1139224 DQM97 RS04555 WP 002962319.1  .   279
NTDB id 407 SMU RS04605 WP 002262865.1        .   280
consensus
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X non conserved

X similar

X ≥ 50% conserved