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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1361 HI 0985 AAC22646.1          ............MNDITYTLLRLMQVPKLGGVGIDKILSNITLNELLNYDDVAFRQMGWGAIQIRR...WFKP.....EAKFIEP   65
NTDB id 1250 GCO85 RS13065 WP 027219989.1 ............MNNL.QPLLALNRMKRIGPRTVLKLQ.KRWPDLNLMF...QLSSVDLEEAGLPS...WLAQTIKNFDPDFIKT   65
NTDB id 1399 DSB67 RS15600 WP 010645755.1 .......MTPQNDIDL.AAWLKLSCLPGIGGVKMNKLLSKDTPSNIVQYSTEQLQLLGLTAKQLQA...WSQV......DKEVDA   68
NTDB id 114 BSU 16110 NP 389493.1        MDQAAVCLTICRINQL.LSPSLLLKWWKADPS.......MSLTSPVLQTVT.......RDQIKA.A...ALKNEIEQFYPKLPRV   66
NTDB id 54460 UC509 RS06225 WP 015082464.1 ................M.ITNFDLFRWKKAGMT.......NLGVNKLLKFFLKYDIKISLRQMGQVAQVKSIPNFIEQYK.NQDVK   61
NTDB id 599 KW2 RS05940 WP 021037268.1   ................M.ITNFDLFRWKKAGMT.......NLGVNKLLKFFRKYDRKISLRQMGQVAQVKSIPNFIEQYK.NQDVK   61
NTDB id 407 SMU RS04605 WP 002262865.1   ..................MDNFQLFKLKKAGLT.......NLNILNIIDYEERTQKSLSLRDMAVVSKNKKPLIFMEHYK.NLDSK   60
NTDB id 525 SMSK321 RS06295 WP 000705298.1 ..............MK.ITNYEIYKLKKSGLT.......NQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYF.QIDDA   62
NTDB id 267 KZH43 RS05590 WP 000705306.1 ..............MK.ITNYEIYKLKKSGLT.......NQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYF.QIDDA   62
NTDB id 226 SPD RS05990 WP 000705306.1   ..............MK.ITNYEIYKLKKSGLT.......NQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYF.QIDDA   62
NTDB id 192 SPR RS05715 WP 000705306.1   ..............MK.ITNYEIYKLKKSGLT.......NQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYF.QIDDA   62
NTDB id 157 SP RS06205 WP 000705306.1    ..............MK.ITNYEIYKLKKSGLT.......NQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYF.QIDDA   62
NTDB id 497 SM12261 RS05565 WP 000705318.1 ..............MK.ITNYEIYKLKKSGLT.......NQQVLAVLEYGENVDQELLLGDIAEISGCRNPAVFMERYF.QIDDA   62
consensus                                                  *********** ***        *  *  ** * *  *  * * *** **  *   **** *  ****
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logo
NTDB id 1361 HI 0985 AAC22646.1          ALVWSQK.EGNHLVNYFSPFYPFLLKQTASFPPLLFVKGNLTALSQ.RQMAMVGSRYCTTYGEYWAKHFATELSLAGFTITSGLA   148
NTDB id 1250 GCO85 RS13065 WP 027219989.1 DLNWLSSSENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQ.PSLAIVGSRNASVTGNENARAFSREISRHGVSIVSGLA   149
NTDB id 1399 DSB67 RS15600 WP 010645755.1 CLTWVAASSHHHILTLADALYPPLLKQTVAPPPLLFVKGEASCLPQ.PQIAMVGSRNASVDGLQHTRTFASDLVQHDLIVTSGLA   152
NTDB id 114 BSU 16110 NP 389493.1        LAA..YREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVVNHLTKEICRKGWVIVSGLA   149
NTDB id 54460 UC509 RS06225 WP 015082464.1 KLR..IDYKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKAVQKIITEL.NQSFTIVSGLA   142
NTDB id 599 KW2 RS05940 WP 021037268.1   KLR..ADYKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIVTEL.NQSFTIVSGLA   142
NTDB id 407 SMU RS04605 WP 002262865.1   ALR..KEFNRFPSLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKIIQDL.SKQFVIISGLA   141
NTDB id 525 SMSK321 RS06295 WP 000705298.1 HLE..KEFKKIPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKIIQGL.ENELVIVSGLA   143
NTDB id 267 KZH43 RS05590 WP 000705306.1 HLS..KEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLA   143
NTDB id 226 SPD RS05990 WP 000705306.1   HLS..KEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLA   143
NTDB id 192 SPR RS05715 WP 000705306.1   HLS..KEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLA   143
NTDB id 157 SP RS06205 WP 000705306.1    HLS..KEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLA   143
NTDB id 497 SM12261 RS05565 WP 000705318.1 HLE..KEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLA   143
consensus                                 *    ** ** ******* !!* ! **** !******!****!*  *****!!*!  *  ! * * ***  *  * ****!!!!
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logo
NTDB id 1361 HI 0985 AAC22646.1          LGIDGHCHQAVVNIQGQTIAVLGSGLEQIYPSKHQRLSAQIIENNGALVSEFLPNQAPIAANFPRRNRIISGLSVGTLVVEATEK   233
NTDB id 1250 GCO85 RS13065 WP 027219989.1 LGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQI.TENGLLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIEAAIK   233
NTDB id 1399 DSB67 RS15600 WP 010645755.1 LGIDGHAHDGALLAGGKTIAVLGSGLEQVYPARHRGLAQRV.AENGALVSEFRPDAKPRAENFPRRNRIISGLSLGVLVVEAAEK   236
NTDB id 114 BSU 16110 NP 389493.1        SGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHM.AKHHLLLSEHPPETKPQKWHFPMRNRIISGLSEGVIVVQGKEK   233
NTDB id 54460 UC509 RS06225 WP 015082464.1 KGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYL.AKNQLVLSEYSLGEKPLKYHFPERNRIIAGLSRGVVVVEAKLR   226
NTDB id 599 KW2 RS05940 WP 021037268.1   KGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYL.AKYQLVLSEYSLGEKPLKYHFPERNRIIAGLSRGVVVVEAKLR   226
NTDB id 407 SMU RS04605 WP 002262865.1   RGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYI.AKNHLLLSEYEAQSQPLKYHFPERNRIIAGLSQGVMVAEAKIR   225
NTDB id 525 SMSK321 RS06295 WP 000705298.1 KGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.SNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR   227
NTDB id 267 KZH43 RS05590 WP 000705306.1 KGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR   227
NTDB id 226 SPD RS05990 WP 000705306.1   KGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR   227
NTDB id 192 SPR RS05715 WP 000705306.1   KGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR   227
NTDB id 157 SP RS06205 WP 000705306.1    KGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR   227
NTDB id 497 SM12261 RS05565 WP 000705318.1 KGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMR   227
consensus                                 *!!!***!****  **!!*!***!****!!* ******** *  ****!!* *** !*****!! !!!!!*!! ****! *****
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logo
NTDB id 1361 HI 0985 AAC22646.1          SGSLITARYALEQNREVFAVPGNIQNKSSQGCHRLIKQGAMLVENAKDILETLYQHSIHSQTEIDFDQIAVPNYTPPPDPRRLVE   318
NTDB id 1250 GCO85 RS13065 WP 027219989.1 SGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHH......QFTS.NKPIFSLASG......   305
NTDB id 1399 DSB67 RS15600 WP 010645755.1 SGSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLVQNTQEVLNEIQSLLDW.....SINQ.SLDLFSAPIDE....E   311
NTDB id 114 BSU 16110 NP 389493.1        SGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPERNVQYTEPF.....................   297
NTDB id 54460 UC509 RS06225 WP 015082464.1 SGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN.............................   282
NTDB id 599 KW2 RS05940 WP 021037268.1   SGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN.............................   282
NTDB id 407 SMU RS04605 WP 002262865.1   SGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF.............................   280
NTDB id 525 SMSK321 RS06295 WP 000705298.1 SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.............................   282
NTDB id 267 KZH43 RS05590 WP 000705306.1 SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.............................   282
NTDB id 226 SPD RS05990 WP 000705306.1   SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.............................   282
NTDB id 192 SPR RS05715 WP 000705306.1   SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.............................   282
NTDB id 157 SP RS06205 WP 000705306.1    SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.............................   282
NTDB id 497 SM12261 RS05565 WP 000705318.1 SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.............................   282
consensus                                !!!!!!***!*!**!*****!*** ** **!***!** !!********** ** *
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logo
NTDB id 1361 HI 0985 AAC22646.1          APSHPKLYSRIGYTPVSIDDLAEEFNLSVDVLLVQLLDLELQDLIISENGLYKRV....   373
NTDB id 1250 GCO85 RS13065 WP 027219989.1 ...KENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER   361
NTDB id 1399 DSB67 RS15600 WP 010645755.1 ELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKGRG.   369
NTDB id 114 BSU 16110 NP 389493.1        ..........................................................   297
NTDB id 54460 UC509 RS06225 WP 015082464.1 ..........................................................   282
NTDB id 599 KW2 RS05940 WP 021037268.1   ..........................................................   282
NTDB id 407 SMU RS04605 WP 002262865.1   ..........................................................   280
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
consensus
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X non conserved

X similar

X $\geq$ 50% conserved