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logo
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NTDB id 1043 HON27 RS16615 WP 168727007.1     ..........MLTQLSSHQYHTLKVWYLVQHSLVSFKKIIDYFGNCEK......ATQPDGLAKWSSLGLHANHLKRVNEF   64
NTDB id 1361 HI 0985 AAC22646.1               ..............MNDITYTLLRLMQVPKLGGVGIDKILSNITLNELLNYDDVAFRQMG...WGAIQ.....IRRWFKP   58
NTDB id 114 BSU 16110 NP 389493.1             MDQAAVCLTICRINQLLSPSLLLKW..................WKADPS...MSLTSPVLQTVTRDQIK.....AAALKNE   55
NTDB id 626 LCA RS04960 WP 011374694.1        ..............MLTKNQLLLKVHLAAGFGTISELRLAAWLSTSHN...WALSALEIAQIA..RLP.....ERYWPTF   56
NTDB id 371500 FLP15 RS08880 WP 190288385.1   ................MTNFDLFRW.KNAGMTNLGVNKLLKFYRK.CE...MKMSLRQMAQVA..QIK.......SISNF   50
NTDB id 599 KW2 RS05940 WP 021037268.1        ...............MITNFDLFRW.KKAGMTNLGVNKLLKFFRK.YD...RKISLRQMGQVA..QVK.......SIPNF   51
NTDB id 407 SMU RS04605 WP 002262865.1        ................MDNFQLFKL.KKAGLTNLNILNIIDYEER.TQ...KSLSLRDMAVVS..KNK.......KPLIF   50
NTDB id 525 SMSK321 RS06295 WP 000705298.1    ..............MKITNYEIYKL.KKSGLTNQQILKVLEYGEN.VD...QELLLGDIADIS..GCR.......NPAVF   52
NTDB id 267 KZH43 RS05590 WP 000705306.1      ..............MKITNYEIYKL.KKSGLTNQQILKVLEYGEN.VD...QELLLGDIADIS..GCR.......NPAVF   52
NTDB id 226 SPD RS05990 WP 000705306.1        ..............MKITNYEIYKL.KKSGLTNQQILKVLEYGEN.VD...QELLLGDIADIS..GCR.......NPAVF   52
NTDB id 192 SPR RS05715 WP 000705306.1        ..............MKITNYEIYKL.KKSGLTNQQILKVLEYGEN.VD...QELLLGDIADIS..GCR.......NPAVF   52
NTDB id 157 SP RS06205 WP 000705306.1         ..............MKITNYEIYKL.KKSGLTNQQILKVLEYGEN.VD...QELLLGDIADIS..GCR.......NPAVF   52
NTDB id 497 SM12261 RS05565 WP 000705318.1    ..............MKITNYEIYKL.KKSGLTNQQVLAVLEYGEN.VD...QELLLGDIAEIS..GCR.......NPAVF   52
consensus                                                   * *********  ** ****  *******  *   *     * * *** **    *        *

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NTDB id 1361 HI 0985 AAC22646.1               .....EAKFIEPA...LVWSQKEGNHLVNYFSPFYPFLLKQTASFPPLLFVKGNLTALS.QRQMAMVGSRYCTTYGEYWA   129
NTDB id 114 BSU 16110 NP 389493.1             .....IEQFYPKLPRVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVV   130
NTDB id 626 LCA RS04960 WP 011374694.1        .....QASFQSTTLQRQCIDHEVRTTYLTILDKDYPQRLLETYLPPVLLFYRGDLRLLK.QPCLAVVGARQATHYSKQSL   130
NTDB id 371500 FLP15 RS08880 WP 190288385.1   .....IESYKNQNV.KELREKYKKFSSFSILDENYPERLKEIYNPPVLIFYQGNIELLK.TPKVAFVGSRESTPNGVKAV   123
NTDB id 599 KW2 RS05940 WP 021037268.1        .....IEQYKNQDV.KKLRADYKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLK.NPKLAFVGSRLAGQSGIKSV   124
NTDB id 407 SMU RS04605 WP 002262865.1        .....MEHYKNLDS.KALRKEFNRFPSLSILDKEYPLELKNIYNPPVLLFYQGDLDLLA.RPKLAVVGSRNASQMGVAAV   123
NTDB id 525 SMSK321 RS06295 WP 000705298.1    .....MERYFQIDD.AHLEKEFKKIPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRSCSKQGAKSV   125
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consensus                                       **  *  ***    *  **  **  ******* !!* ! **** !***!**!****!*  *****!!*!   *  * ***

logo
NTDB id 1073 ABD1 RS00865 WP 015451369.1      YDFAYYLSEKGFFISSGLAYGIDEAAHQGAS.AHQRTIAVTGTGLDTTYPAQNKKLAEYILAQNGAIITEFLPGTPPLQQ   218
NTDB id 1043 HON27 RS16615 WP 168727007.1     YDFAYYLSEKGFFISSGLAYGIDEAAHQGAS.THQRTIAVTGTGLDTTYPAQNKKLAEHILAKNGAIITEFLPGTPPLQQ   218
NTDB id 1361 HI 0985 AAC22646.1               KHFATELSLAGFTITSGLALGIDGHCHQAVVNIQGQTIAVLGSGLEQIYPSKHQRLSAQIIENNGALVSEFLPNQAPIAA   209
NTDB id 114 BSU 16110 NP 389493.1             NHLTKEICRKGWVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLAD.HMAKHHILLSEHPPETKPQKW   209
NTDB id 626 LCA RS04960 WP 011374694.1        EQLLQGLT.A.TTIISGLAQGADAMAHEVALQRGLAPIGVIGTGINCSYPPQNEHLQQ.VVAEKGLLLSEYALGTPARRY   207
NTDB id 371500 FLP15 RS08880 WP 190288385.1   QKLIKELN.QSFTIVSGLAKGIDAASHISAIKNQTSTIAVIGTGLDIFYPTENRKIQE.YLSKKQLILSEYAPGEKPLKY   201
NTDB id 599 KW2 RS05940 WP 021037268.1        QKIVTELN.QSFTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQE.YLAKYQLVLSEYSLGEKPLKY   202
NTDB id 407 SMU RS04605 WP 002262865.1        KKIIQDLS.KQFVIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQD.YIAKNHLLLSEYEAQSQPLKY   201
NTDB id 525 SMSK321 RS06295 WP 000705298.1    EKIIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQD.YISNDHLVLSEYGPGEQPLKF   203
NTDB id 267 KZH43 RS05590 WP 000705306.1      EKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQD.YIGNDHLVLSEYGPGEQPLKF   203
NTDB id 226 SPD RS05990 WP 000705306.1        EKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQD.YIGNDHLVLSEYGPGEQPLKF   203
NTDB id 192 SPR RS05715 WP 000705306.1        EKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQD.YIGNDHLVLSEYGPGEQPLKF   203
NTDB id 157 SP RS06205 WP 000705306.1         EKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQD.YIGNDHLVLSEYGPGEQPLKF   203
NTDB id 497 SM12261 RS05565 WP 000705318.1    EKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQD.YIGNDHLVLSEYGPGEQPLKF   203
consensus                                      **** *  *  *!*!!!!*!*!***!***** ****!*!***!****!!* ****** **** *****!***** ****
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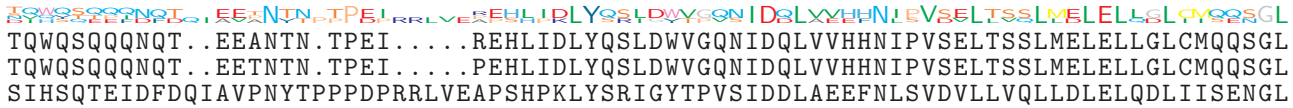
logo

NTDB id 1073 ABD1 RS00865 WP 015451369.1     HFPRRNRIVSGLSLGVLVVEATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALP   298
NTDB id 1043 HON27 RS16615 WP 168727007.1    HFPRRNRIVSGLSLGVLVVEATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALP   298
NTDB id 1361 HI 0985 AAC22646.1              NFPRRNRIISGLSVGTLVVEATEKSGSLITARYALEQNREVFAVPGNIQNKSSQGCHRLIKQGAMLVENAKDILETLYQH   289
NTDB id 114 BSU 16110 NP 389493.1            HFPMRNRIISGLSEGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPER   289
NTDB id 626 LCA RS04960 WP 011374694.1       QFPARNKIIAGLCHSLIVTEARHKSGSLITANLALQANRNVYAIPGRIDQSLSQGCNQLIAAGATPLLDKNILIEELRYF   287
NTDB id 371500 FLP15 RS08880 WP 190288385.1 HFPERNRIIAGLSRGVVVVEAKLRSGSLITCERALEEGRDVFAVPGNIADGFSDGCNYLIQQGAKLVFKGQDILGEYTY.   280
NTDB id 599 KW2 RS05940 WP 021037268.1       HFPERNRIIAGLSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN   282
NTDB id 407 SMU RS04605 WP 002262865.1       HFPERNRIIAGLSQGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF.   280
NTDB id 525 SMSK321 RS06295 WP 000705298.1   HFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 267 KZH43 RS05590 WP 000705306.1     HFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 226 SPD RS05990 WP 000705306.1       HFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 192 SPR RS05715 WP 000705306.1       HFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 157 SP RS06205 WP 000705306.1        HFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 497 SM12261 RS05565 WP 000705318.1   HFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
consensus                                    *!! !!*!**!! ****! *****!!!!!!***!***********!! * ** **!***!!**!!*** ****** ** *

logo
                                          
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NTDB id 1043 HON27 RS16615 WP 168727007.1    TQWQSQQQNQT..EETNTN.TPEI.....PEHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGL   370
NTDB id 1361 HI 0985 AAC22646.1              SIHSQTEIDFDQIAVPNYTPPPDPRRLVEAPSHPKLYSRIGYTPVSIDDLAEEFNLSVDVLLVQLLDLELQDLIISENGL   369
NTDB id 114 BSU 16110 NP 389493.1            NVQYTEPF........................................................................   297
NTDB id 626 LCA RS04960 WP 011374694.1       D...............................................................................   288
NTDB id 371500 FLP15 RS08880 WP 190288385.1 ................................................................................   280
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

logo

NTDB id 1073 ABD1 RS00865 WP 015451369.1     YLRCRS   376
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NTDB id 114 BSU 16110 NP 389493.1            ......   297
NTDB id 626 LCA RS04960 WP 011374694.1       ......   288
NTDB id 371500 FLP15 RS08880 WP 190288385.1 ......   280
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