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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 582 DLJ51 RS00505 WP 002962720.1      MDKEKLKEIFNKHSALPEEVEEFDDGMVKEVITAGLLFCLKEVL...D........MDDSSFVSAFSRVEKTVSKLAKDY    69
NTDB id 554 STRINF RS00370 WP 115283725.1     ............................................................MDFERYFQTVKPIILKLRRHY    21
NTDB id 450 SPYM18 RS08475 WP 011018214.1     ....................................MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHY    45
NTDB id 449 SPYM18 RS01395 WP 011018214.1     ....................................MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHY    45
NTDB id 442 SPYM3 RS08515 WP 011106595.1      ....................................MSCCFFVVLFILGIVKKKRRLKMSIETRAVFEKVKPIILKLKRHY    45
NTDB id 441 SPYM3 RS01385 WP 011106595.1      ....................................MSCCFFVVLFILGIVKKKRRLKMSIETRAVFEKVKPIILKLKRHY    45
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1 ....................................MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHY    45
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1 ....................................MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHY    45
NTDB id 320 STU RS10340 WP 002949220.1        ............................................................MEQEVFVKAYEKVRPIVLKAFRQY    24
NTDB id 47 STER RS00925 WP 002949220.1        ............................................................MEQEVFVKAYEKVRPIVLKAFRQY    24
NTDB id 468 HSISS4 RS00725 WP 021143466.1     ............................................................MEQEVFVHAYEVVRPIVLKASRQY    24
NTDB id 50 STRSA0001 RS07545 WP 002885610.1   ............................................................MEQEVFVHAYEVVRPIVLKASRQY    24
NTDB id 44 SMU RS09085 WP 002263585.1         ...........................................................MEEDFEIVFNKVKPIVWKLSRYY    23
NTDB id 256904 CVO91 RS00510 WP 004195486.1   ..........................................................MEFEKVYDSVKGIVNKARKEY    21
NTDB id 457 SSUD9 RS00080 WP 002936602.1      ..........................................................MEFEKVYASVKGIVNKARKEF    21
NTDB id 461 GPW51 RS00080 WP 011921639.1      ..........................................................MEFEKVYASVKGIVNKARKEF    21
NTDB id 454 SSU RS00080 WP 011921639.1        ..........................................................MEFEKVYASVKGIVNKARKEF    21
NTDB id 424 SGO RS10430 WP 012130755.1        ..........................................................MKFEDVYKQVEGIVKRCYKDY    21
NTDB id 423 SGO RS08370 WP 012130755.1        ..........................................................MKFEDVYKQVEGIVKRCYKDY    21
NTDB id 252 KZH43 RS09050 WP 000588897.1      ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 251 KZH43 RS09050 WP 000588897.1      ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 211 SPD RS09675 WP 000588897.1        ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 210 SPD RS00065 WP 000588897.1        ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 177 SPR RS09210 WP 000588897.1        ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 176 SPR RS00065 WP 000588897.1        ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 141 SP RS10155 WP 000588925.1         ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 140 SP RS00070 WP 000588925.1         ...........................................................MIKELYEEVQGTVYKCRNEY    20
NTDB id 489 SM12261 RS01070 WP 000471940.1    ............................................................MFKELYEEVQGIVYKCRNEY    20
NTDB id 488 SM12261 RS00065 WP 000471939.1    ............................................................MFKELYEEVQGIVYKCRNEY    20
NTDB id 516 SMSK321 RS09125 WP 000471944.1    ............................................................MFKELYKEVQGIVYKSRNEY    20
NTDB id 517 SMSK321 RS10700 WP 000471945.1    ............................................................MFKELYKEVQGIVYKSRNEY    20
consensus                                                                                                                  ** *** ! *** * ****
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logo
NTDB id 582 DLJ51 RS00505 WP 002962720.1      YIKLWTYDDWRQEARIILYQLLERFPDLANDEEKLRIYFKTKFRSYVLDNIRKQESQKRAFDRMIYEEISELGHMIPSQQ   149
NTDB id 554 STRINF RS00370 WP 115283725.1     FVKLWDYEDWIQEGRIVFFQLLEEHPDLLNNEGKCYSYFKTKFSNHVKDIIRHQESFKRKFNRMPYEEISDISHCVPQVF   101
NTDB id 450 SPYM18 RS08475 WP 011018214.1     YIQLWDRDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRG   125
NTDB id 449 SPYM18 RS01395 WP 011018214.1     YIQLWDRDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRG   125
NTDB id 442 SPYM3 RS08515 WP 011106595.1      YIQLWDRDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRG   125
NTDB id 441 SPYM3 RS01385 WP 011106595.1      YIQLWDRDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRG   125
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1 YIQLWDRDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRG   125
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1 YIQLWDRDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRG   125
NTDB id 320 STU RS10340 WP 002949220.1        FIQLWDQADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYVEISDIAFCIPNKE   104
NTDB id 47 STER RS00925 WP 002949220.1        FIQLWDQADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYVEISDIAFCIPNKE   104
NTDB id 468 HSISS4 RS00725 WP 021143466.1     FIQLWDQADMEQEAMMTLYQLLEKFPELKSDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYIEISDIAFCLPNKE   104
NTDB id 50 STRSA0001 RS07545 WP 002885610.1   FIQLWDLADMEQEAMMTLYQLLEKFPELKSDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYIEISDIAFCLPNKE   104
NTDB id 44 SMU RS09085 WP 002263585.1         FIKMWTREDWQQEGMLILHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRQQESQKRRFNRMSYEEVGEIEHCLSSGG   103
NTDB id 256904 CVO91 RS00510 WP 004195486.1   YIKLWEKEDWDQEGMMTLFELLEDQPWLADEQEQLYCYFKVKFRNRVKDRVRRQESQKRKFDRMPHEDIHDLSHVIQSPG   101
NTDB id 457 SSUD9 RS00080 WP 002936602.1      YIKLWDRDDWEQEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIHELSHAIQSPG   101
NTDB id 461 GPW51 RS00080 WP 011921639.1      YIKLWDRDDWEQEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPG   101
NTDB id 454 SSU RS00080 WP 011921639.1        YIKLWDRDDWEQEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPG   101
NTDB id 424 SGO RS10430 WP 012130755.1        YLHLWEYADWRQEGMLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKE   101
NTDB id 423 SGO RS08370 WP 012130755.1        YLHLWEYADWRQEGMLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKE   101
NTDB id 252 KZH43 RS09050 WP 000588897.1      YLHLWELSDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 251 KZH43 RS09050 WP 000588897.1      YLHLWELSDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 211 SPD RS09675 WP 000588897.1        YLHLWELSDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 210 SPD RS00065 WP 000588897.1        YLHLWELSDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 177 SPR RS09210 WP 000588897.1        YLHLWELSDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 176 SPR RS00065 WP 000588897.1        YLHLWELSDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 141 SP RS10155 WP 000588925.1         YLHLWELSDWEQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 140 SP RS00070 WP 000588925.1         YLHLWELSDWEQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 489 SM12261 RS01070 WP 000471940.1    YLHLWELSDWDQEGMICLHELISREEELVEDIPRLRKYFKTKFRNRILDHIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 488 SM12261 RS00065 WP 000471939.1    HLHLWELSDWDQEGMICLHELISREEGIVEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGG   100
NTDB id 516 SMSK321 RS09125 WP 000471944.1    YLHLWELSDWDQEGMICLHELISKEEELAEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKESYEEVGEISHRIGEGG   100
NTDB id 517 SMSK321 RS10700 WP 000471945.1    YLHLWELSDWDQEGMICLHELISREEELVEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEAYEEVGEISHRIGEGG   100
consensus                                     ** *!*  !**!!*** * *!* * * ****  ****!!!**!**** ! *!*!!!*!!**** ********** *   *
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logo

NTDB id 582 DLJ51 RS00505 WP 002962720.1          MD.TADYCALKEKLKELKQKLAPEDYAKILLLMRGGAFKGRSAFIKDIKVEFEDFDEDN...   207
NTDB id 554 STRINF RS00370 WP 115283725.1         FFEVEDYVAYQDSLACLRRTLGREDRLKLEKVIRGERFEGKKAFLKSIELYFSDFRP.....   158
NTDB id 450 SPYM18 RS08475 WP 011018214.1         LW.LDDYVAYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 449 SPYM18 RS01395 WP 011018214.1         LW.LDDYVAYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 442 SPYM3 RS08515 WP 011106595.1          LW.LDDYVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 441 SPYM3 RS01385 WP 011106595.1          LW.LDDYVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1     LW.LDDYVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1     LW.LDDYVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 320 STU RS10340 WP 002949220.1            LD.MVDRLAYDEQLNAFREQLSSEDSLKLDRLLGGECFRGRKKMIRELRFWMVDFDPCNEED   165
NTDB id 47 STER RS00925 WP 002949220.1            LD.MVDRLAYDEQLNAFREQLSSEDSLKLDRLLGGECFRGRKKMIRELRFWMVDFDPCNEED   165
NTDB id 468 HSISS4 RS00725 WP 021143466.1         LD.AVDRLVYDEQLNAFRNQLSSEDATKLDRLLAGECFRGRKKMIRELKFWMVDFDPYNEDD   165
NTDB id 50 STRSA0001 RS07545 WP 002885610.1       LD.AVDRLVYDEQLNAFRNQLSSEDATKLDRLLAGECFRGRKKMIRELKFWMVDFDPYNEDD   165
NTDB id 44 SMU RS09085 WP 002263585.1             MQ.LDEYILFRDSLLAYKQGLSTEKQELFERLVAGEHFLGRQSMLKDLRKKLSDFKEK....   160
NTDB id 256904 CVO91 RS00510 WP 004195486.1       LV.NDELLMLRGALRDYRKKLSNDQLENYEKLISGQCFRGRREMIRDLQIYLKDFR......   156
NTDB id 457 SSUD9 RS00080 WP 002936602.1          LI.NDELLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR......   156
NTDB id 461 GPW51 RS00080 WP 011921639.1          LI.NDELLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR......   156
NTDB id 454 SSU RS00080 WP 011921639.1            LI.NDELLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR......   156
NTDB id 424 SGO RS10430 WP 012130755.1            LY.LDELVAFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD..   160
NTDB id 423 SGO RS08370 WP 012130755.1            LY.LDELVAFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD..   160
NTDB id 252 KZH43 RS09050 WP 000588897.1          LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 251 KZH43 RS09050 WP 000588897.1          LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 211 SPD RS09675 WP 000588897.1            LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 210 SPD RS00065 WP 000588897.1            LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 177 SPR RS09210 WP 000588897.1            LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 176 SPR RS00065 WP 000588897.1            LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 141 SP RS10155 WP 000588925.1             LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 140 SP RS00070 WP 000588925.1             LW.LDDYYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 489 SM12261 RS01070 WP 000471940.1        MW.LDEYYLFHETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH..   159
NTDB id 488 SM12261 RS00065 WP 000471939.1        MW.LDEYYLFHETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH..   159
NTDB id 516 SMSK321 RS09125 WP 000471944.1        LW.LDEYYLFHETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTR..   159
NTDB id 517 SMSK321 RS10700 WP 000471945.1        LW.LDDYYLFHETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTQ..   159
consensus                                         ** ******* * ****** ** *  * ***** ***!*!** ******* ***!
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X non conserved

X similar

X ≥ 50% conserved