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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 582 DLJ51 RS00505 WP 002962720.1        MDKEKLKEIFNKHSALPEEVEEFDDGMVKEVITAGLLFCLKEV....LDMDDSSFVSAFSRVEKTVSKLAKDYYIKLWTY    76
NTDB id 450 SPYM18 RS08475 WP 011018214.1       ..........................MS..CCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDR    52
NTDB id 449 SPYM18 RS01395 WP 011018214.1       ..........................MS..CCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDR    52
NTDB id 442 SPYM3 RS08515 WP 011106595.1        ..........................MS..CCFFVVLFILGIVKKKRRLKMSIETRAVFEKVKPIILKLKRHYYIQLWDR    52
NTDB id 441 SPYM3 RS01385 WP 011106595.1        ..........................MS..CCFFVVLFILGIVKKKRRLKMSIETRAVFEKVKPIILKLKRHYYIQLWDR    52
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1    ..........................MS..CCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDR    52
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1    ..........................MS..CCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDR    52
NTDB id 44 SMU RS09085 WP 002263585.1           ..........................................................MEEDFEIVFNKVKPIVWKLSRYYFIKMWTR    30
NTDB id 457 SSUD9 RS00080 WP 002936602.1        ..........................................................MEFEKVYASVKGIVNKARKEFYIKLWDR    28
NTDB id 461 GPW51 RS00080 WP 011921639.1        ..........................................................MEFEKVYASVKGIVNKARKEFYIKLWDR    28
NTDB id 454 SSU RS00080 WP 011921639.1          ..........................................................MEFEKVYASVKGIVNKARKEFYIKLWDR    28
NTDB id 424 SGO RS10430 WP 012130755.1          ..........................................................MKFEDVYKQVEGIVKRCYKDYYLHLWEY    28
NTDB id 423 SGO RS08370 WP 012130755.1          ..........................................................MKFEDVYKQVEGIVKRCYKDYYLHLWEY    28
NTDB id 58045 SPN034156 RS06045 WP 000588860.1  ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 252 KZH43 RS09050 WP 000588897.1        ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 251 KZH43 RS09050 WP 000588897.1        ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 211 SPD RS09675 WP 000588897.1          ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 210 SPD RS00065 WP 000588897.1          ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 177 SPR RS09210 WP 000588897.1          ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 176 SPR RS00065 WP 000588897.1          ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 141 SP RS10155 WP 000588925.1           ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 140 SP RS00070 WP 000588925.1           ............................................................MIKELYEEVQGTVYKCRNEYYLHLWEL    27
NTDB id 488 SM12261 RS00065 WP 000471939.1      ............................................................MFKELYEEVQGIVYKCRNEYHLHLWEL    27
NTDB id 489 SM12261 RS01070 WP 000471940.1      ............................................................MFKELYEEVQGIVYKCRNEYYLHLWEL    27
NTDB id 517 SMSK321 RS10700 WP 000471945.1      ............................................................MFKELYKEVQGIVYKSRNEYYLHLWEL    27
NTDB id 516 SMSK321 RS09125 WP 000471944.1      ............................................................MFKELYKEVQGIVYKSRNEYYLHLWEL    27
consensus                                                                                                   * *** ! * * * * **** *!*
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logo
NTDB id 582 DLJ51 RS00505 WP 002962720.1        DDWRQEARIILYQLLERFPDLANDEEKLRIYFKTKFRSYVLDNIRKQESQKRAFDRMIYEEISELGHMIPSQQMDTADYC   156
NTDB id 450 SPYM18 RS08475 WP 011018214.1       DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV   132
NTDB id 449 SPYM18 RS01395 WP 011018214.1       DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV   132
NTDB id 442 SPYM3 RS08515 WP 011106595.1        DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV   132
NTDB id 441 SPYM3 RS01385 WP 011106595.1        DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV   132
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1   DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV   132
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1   DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV   132
NTDB id 44 SMU RS09085 WP 002263585.1           EDWQQEGMLILHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRQQESQKRRFNRMSYEEVGEIEHCLSSGGMQLDEYI   110
NTDB id 457 SSUD9 RS00080 WP 002936602.1        DDWEQEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIHELSHAIQSPGLINDELL   108
NTDB id 461 GPW51 RS00080 WP 011921639.1        DDWEQEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLINDELL   108
NTDB id 454 SSU RS00080 WP 011921639.1          DDWEQEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLINDELL   108
NTDB id 424 SGO RS10430 WP 012130755.1          ADWRQEGMLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKELYLDELV   108
NTDB id 423 SGO RS08370 WP 012130755.1          ADWRQEGMLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKELYLDELV   108
NTDB id 58045 SPN034156 RS06045 WP 000588860.1 SDWDQEGMLCLHELISREEGLADDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGELSHRISEGGLWLDDYY   107
NTDB id 252 KZH43 RS09050 WP 000588897.1        SDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 251 KZH43 RS09050 WP 000588897.1        SDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 211 SPD RS09675 WP 000588897.1          SDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 210 SPD RS00065 WP 000588897.1          SDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 177 SPR RS09210 WP 000588897.1          SDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 176 SPR RS00065 WP 000588897.1          SDWDQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 141 SP RS10155 WP 000588925.1           SDWEQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 140 SP RS00070 WP 000588925.1           SDWEQEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY   107
NTDB id 488 SM12261 RS00065 WP 000471939.1      SDWDQEGMICLHELISREEGIVEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGMWLDEYY   107
NTDB id 489 SM12261 RS01070 WP 000471940.1      SDWDQEGMICLHELISREEELVEDIPRLRKYFKTKFRNRILDHIRKQESQKRRYDKEPYEEVGEISHRISEGGMWLDEYY   107
NTDB id 517 SMSK321 RS10700 WP 000471945.1      SDWDQEGMICLHELISREEELVEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEAYEEVGEISHRIGEGGLWLDDYY   107
NTDB id 516 SMSK321 RS09125 WP 000471944.1      SDWDQEGMICLHELISKEEELAEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKESYEEVGEISHRIGEGGLWLDEYY   107
consensus                                        !! !!*** ! *!* *   ****  *! *!!!**!**** ! *!*!!!!!!**** *!***!* ! *   *****
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logo
NTDB id 582 DLJ51 RS00505 WP 002962720.1        ALKEKLKELKQKLAPEDYAKILLLMRGGAFKGRSAFIKDIKVEFEDFDEDN.   207
NTDB id 450 SPYM18 RS08475 WP 011018214.1       AYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 449 SPYM18 RS01395 WP 011018214.1       AYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 442 SPYM3 RS08515 WP 011106595.1        AYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 441 SPYM3 RS01385 WP 011106595.1        AYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1    AYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1    AYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 44 SMU RS09085 WP 002263585.1           LFRDSLLAYKQGLSTEKQELFERLVAGEHFLGRQSMLKDLRKKLSDFKEK..   160
NTDB id 457 SSUD9 RS00080 WP 002936602.1        MLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR....   156
NTDB id 461 GPW51 RS00080 WP 011921639.1        MLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR....   156
NTDB id 454 SSU RS00080 WP 011921639.1          MLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR....   156
NTDB id 424 SGO RS10430 WP 012130755.1          AFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD   160
NTDB id 423 SGO RS08370 WP 012130755.1          AFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD   160
NTDB id 58045 SPN034156 RS06045 WP 000588860.1  LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 252 KZH43 RS09050 WP 000588897.1        LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 251 KZH43 RS09050 WP 000588897.1        LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 211 SPD RS09675 WP 000588897.1          LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 210 SPD RS00065 WP 000588897.1          LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 177 SPR RS09210 WP 000588897.1          LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 176 SPR RS00065 WP 000588897.1          LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 141 SP RS10155 WP 000588925.1           LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 140 SP RS00070 WP 000588925.1           LFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 488 SM12261 RS00065 WP 000471939.1      LFHETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH   159
NTDB id 489 SM12261 RS01070 WP 000471940.1      LFHETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH   159
NTDB id 517 SMSK321 RS10700 WP 000471945.1      LFHETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTQ   159
NTDB id 516 SMSK321 RS09125 WP 000471944.1      LFHETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTR   159
consensus                                       ** * ******  * *  *  ****  **!*!!  ***** * ***!
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X non conserved

X similar

X $\geq$ 50% conserved