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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 582 DLJ51 RS00505 WP 002962720.1      MDKEKLKEIFNKHSALPEEVEEFDDGMVKEVITAGLLFCLKEVL....DMDDSSFVSAFSRVEKTVSKLAKDYYIKLWTY    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 554 STRINF RS00370 WP 115283725.1     ..............................................................MDFERYFQTVKPIILKLRRHYFVKLWDY    28
NTDB id 320 STU RS10340 WP 002949220.1        ............................................................MEQEVFVKAYEKVRPIVLKAFRQYFIQLWDQ    31
NTDB id 47 STER RS00925 WP 002949220.1        ............................................................MEQEVFVKAYEKVRPIVLKAFRQYFIQLWDQ    31
NTDB id 468 HSISS4 RS00725 WP 021143466.1     ............................................................MEQEVFVHAYEVVRPIVLKASRQYFIQLWDQ    31
NTDB id 50 STRSA0001 RS07545 WP 002885610.1   ............................................................MEQEVFVHAYEVVRPIVLKASRQYFIQLWDL    31
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 404957 GOM47 RS00065 WP 235080682.1   ..............................................................MNLKELYEESKGIVHKCRKEYHLHLWEK    28
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      DDWRQEARIILYQLLERFPDL.ANDEEKLRIYFKTKFRSYVLDNIRKQESQKRAFDRMIYEEISELGHMIPSQQMD.TAD   154
NTDB id 450 SPYM18 RS08475 WP 011018214.1     DDWLQEGHIILLQLLERYPEL.IEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD   130
NTDB id 449 SPYM18 RS01395 WP 011018214.1     DDWLQEGHIILLQLLERYPEL.IEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD   130
NTDB id 442 SPYM3 RS08515 WP 011106595.1      DDWLQEGHIILLQLLERYPEL.IEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD   130
NTDB id 441 SPYM3 RS01385 WP 011106595.1      DDWLQEGHIILLQLLERYPEL.IEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD   130
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1 DDWLQEGHIILLQLLERYPEL.IEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD   130
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1 DDWLQEGHIILLQLLERYPEL.IEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD   130
NTDB id 554 STRINF RS00370 WP 115283725.1    EDWIQEGRIVFFQLLEEHPDL.LNNEGKCYSYFKTKFSNHVKDIIRHQESFKRKFNRMPYEEISDISHCVPQVFFFEVED   107
NTDB id 320 STU RS10340 WP 002949220.1       ADMEQEAMMTLYQLLKKFPDL.EKDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYVEISDIAFCIPNKELD.MVD   109
NTDB id 47 STER RS00925 WP 002949220.1       ADMEQEAMMTLYQLLKKFPDL.EKDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYVEISDIAFCIPNKELD.MVD   109
NTDB id 468 HSISS4 RS00725 WP 021143466.1    ADMEQEAMMTLYQLLEKFPEL.KSDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYIEISDIAFCLPNKELD.AVD   109
NTDB id 50 STRSA0001 RS07545 WP 002885610.1  ADMEQEAMMTLYQLLEKFPEL.KSDDDKLRRYFKTKFRNRLNDEVRRQESVKRQANRQCYIEISDIAFCLPNKELD.AVD   109
NTDB id 44 SMU RS09085 WP 002263585.1        EDWQQEGMLILHQLLREHPEL.EEDDTKLYIYFKTRFSNYIKDVLRQQESQKRRFNRMSYEEVGEIEHCLSSGGMQ.LDE   108
NTDB id 457 SSUD9 RS00080 WP 002936602.1     DDWEQEGMMTLFELLEAQPWL.VDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIHELSHAIQSPGLI.NDE   106
NTDB id 461 GPW51 RS00080 WP 011921639.1     DDWEQEGMMTLFELLEAQPWL.VDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLI.NDE   106
NTDB id 454 SSU RS00080 WP 011921639.1       DDWEQEGMMTLFELLEAQPWL.VDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLI.NDE   106
NTDB id 424 SGO RS10430 WP 012130755.1       ADWRQEGMLVLYELLKSHPNL.LEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKELY.LDE   106
NTDB id 423 SGO RS08370 WP 012130755.1       ADWRQEGMLVLYELLKSHPNL.LEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKELY.LDE   106
NTDB id 404957 GOM47 RS00065 WP 235080682.1  EDWDQEGMLCLYELVSHHPELLVGERHRLYVCFKTKFRNRILDYIRKQESHKRRFDKEPYEEVSEISHRLGEKGLR.LDD   107
NTDB id 252 KZH43 RS09050 WP 000588897.1     SDWDQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 251 KZH43 RS09050 WP 000588897.1     SDWDQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 211 SPD RS09675 WP 000588897.1       SDWDQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 210 SPD RS00065 WP 000588897.1       SDWDQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 177 SPR RS09210 WP 000588897.1       SDWDQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 176 SPR RS00065 WP 000588897.1       SDWDQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 141 SP RS10155 WP 000588925.1        SDWEQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 140 SP RS00070 WP 000588925.1        SDWEQEGMLCLHELISREEGL.VDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLW.LDD   105
NTDB id 488 SM12261 RS00065 WP 000471939.1   SDWDQEGMICLHELISREEGI.VEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGMW.LDE   105
NTDB id 489 SM12261 RS01070 WP 000471940.1   SDWDQEGMICLHELISREEEL.VEDIPRLRKYFKTKFRNRILDHIRKQESQKRRYDKEPYEEVGEISHRISEGGMW.LDE   105
NTDB id 517 SMSK321 RS10700 WP 000471945.1   SDWDQEGMICLHELISREEEL.VEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEAYEEVGEISHRIGEGGLW.LDD   105
NTDB id 516 SMSK321 RS09125 WP 000471944.1   SDWDQEGMICLHELISKEEEL.AEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKESYEEVGEISHRIGEGGLW.LDE   105
consensus                                     !**!!*** * *!* * *** ***  *****!!**!**** ! *!*!!!*!!**** ********** *   *** ***
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logo
NTDB id 582 DLJ51 RS00505 WP 002962720.1        YCALKEKLKELKQKLAPEDYAKILLLMRGGAFKGRSAFIKDIKVEFEDFDEDN...   207
NTDB id 450 SPYM18 RS08475 WP 011018214.1       YVAYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 449 SPYM18 RS01395 WP 011018214.1       YVAYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 442 SPYM3 RS08515 WP 011106595.1        YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 441 SPYM3 RS01385 WP 011106595.1        YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1    YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1    YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL...   183
NTDB id 554 STRINF RS00370 WP 115283725.1       YVAYQDSLACLRRTLGREDRLKLEKVIRGERFEGKKAFLKSIELYFSDFRP.....   158
NTDB id 320 STU RS10340 WP 002949220.1          RLAYDEQLNAFREQLSSEDSLKLDRLLGGECFRGRKKMIRELRFWMVDFDPCNEED   165
NTDB id 47 STER RS00925 WP 002949220.1          RLAYDEQLNAFREQLSSEDSLKLDRLLGGECFRGRKKMIRELRFWMVDFDPCNEED   165
NTDB id 468 HSISS4 RS00725 WP 021143466.1       RLVYDEQLNAFRNQLSSEDATKLDRLLAGECFRGRKKMIRELKFWMVDFDPYNEDD   165
NTDB id 50 STRSA0001 RS07545 WP 002885610.1     RLVYDEQLNAFRNQLSSEDATKLDRLLAGECFRGRKKMIRELKFWMVDFDPYNEDD   165
NTDB id 44 SMU RS09085 WP 002263585.1           YILFRDSLLAYKQGLSTEKQELFERLVAGEHFLGRQSMLKDLRKKLSDFKEK....   160
NTDB id 457 SSUD9 RS00080 WP 002936602.1        LLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR......   156
NTDB id 461 GPW51 RS00080 WP 011921639.1        LLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR......   156
NTDB id 454 SSU RS00080 WP 011921639.1          LLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR......   156
NTDB id 424 SGO RS10430 WP 012130755.1          LVAFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD..   160
NTDB id 423 SGO RS08370 WP 012130755.1          LVAFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD..   160
NTDB id 404957 GOM47 RS00065 WP 235080682.1     YYLFHELLKTYKSKQSMEKQELVDRLMGGEVFRGRKALLRELSLIFSEFR......   157
NTDB id 252 KZH43 RS09050 WP 000588897.1        YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 251 KZH43 RS09050 WP 000588897.1        YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 211 SPD RS09675 WP 000588897.1          YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 210 SPD RS00065 WP 000588897.1          YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 177 SPR RS09210 WP 000588897.1          YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 176 SPR RS00065 WP 000588897.1          YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 141 SP RS10155 WP 000588925.1           YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 140 SP RS00070 WP 000588925.1           YYLFHETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH..   159
NTDB id 488 SM12261 RS00065 WP 000471939.1      YYLFHETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH..   159
NTDB id 489 SM12261 RS01070 WP 000471940.1      YYLFHETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH..   159
NTDB id 517 SMSK321 RS10700 WP 000471945.1      YYLFHETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTQ..   159
NTDB id 516 SMSK321 RS09125 WP 000471944.1      YYLFHETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTR..   159
consensus                                       **** * ****** ** *  * ***** ***!*!** ******* ***!
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X non conserved

X similar

X ≥ 50% conserved