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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 457 SSUD9 RS00080 WP 002936602.1       ..................................................MEFEKVYASVKGIVNKARKEFYIKLWDRDDWE    32
NTDB id 461 GPW51 RS00080 WP 011921639.1       ..................................................MEFEKVYASVKGIVNKARKEFYIKLWDRDDWE    32
NTDB id 454 SSU RS00080 WP 011921639.1         ..................................................MEFEKVYASVKGIVNKARKEFYIKLWDRDDWE    32
NTDB id 424 SGO RS10430 WP 012130755.1         ..................................................MKFEDVYKQVEGIVKRCYKDYYLHLWEYADWR    32
NTDB id 423 SGO RS08370 WP 012130755.1         ..................................................MKFEDVYKQVEGIVKRCYKDYYLHLWEYADWR    32
NTDB id 141 SP RS10155 WP 000588925.1          ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWE    31
NTDB id 140 SP RS00070 WP 000588925.1          ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWE    31
NTDB id 252 KZH43 RS09050 WP 000588897.1       ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWD    31
NTDB id 251 KZH43 RS09050 WP 000588897.1       ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWD    31
NTDB id 211 SPD RS09675 WP 000588897.1         ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWD    31
NTDB id 210 SPD RS00065 WP 000588897.1         ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWD    31
NTDB id 177 SPR RS09210 WP 000588897.1         ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWD    31
NTDB id 176 SPR RS00065 WP 000588897.1         ...................................................MIKELYEEVQGTVYKCRNEYYLHLWELSDWD    31
NTDB id 489 SM12261 RS01070 WP 000471940.1     ...................................................MFKELYEEVQGIVYKCRNEYYLHLWELSDWD    31
NTDB id 517 SMSK321 RS10700 WP 000471945.1     ...................................................MFKELYKEVQGIVYKSRNEYYLHLWELSDWD    31
NTDB id 516 SMSK321 RS09125 WP 000471944.1     ...................................................MFKELYKEVQGIVYKSRNEYYLHLWELSDWD    31
NTDB id 582 DLJ51 RS00505 WP 002962720.1       MDKEKLKEIFNKHSALPEEVEEFDDGMVKEVITAGLLFCLKEVLDMDDSSFVSAFSRVEKTVSKLAKDYYIKLWTYDDWR    80
NTDB id 554 STRINF RS00370 WP 115283725.1      ...................................................MDFERYFQTVKPIILKLRRHYFVKLWDYEDWI    32
NTDB id 44 SMU RS09085 WP 002263585.1          ................................................MEEDFEIVFNKVKPIVWKLSRYYFIKMWTREDWQ    34
NTDB id 1024874 ABW635 RS07665 WP 003101723.1  ...................................................MEKVESLFNSVKPIILKFQKRYYIQLWDKEDWL    33
NTDB id 450 SPYM18 RS08475 WP 011018214.1      .......................MSCCFFVVLFILGIVK.KKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWL    56
NTDB id 449 SPYM18 RS01395 WP 011018214.1      .......................MSCCFFVVLFILGIVK.KKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWL    56
NTDB id 442 SPYM3 RS08515 WP 011106595.1       .......................MSCCFFVVLFILGIVK.KKRRLK.MSIETRAVFEKVKPIILKLKRHYYIQLWDRDDWL    56
NTDB id 441 SPYM3 RS01385 WP 011106595.1       .......................MSCCFFVVLFILGIVK.KKRRLK.MSIETRAVFEKVKPIILKLKRHYYIQLWDRDDWL    56
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1  .......................MSCCFFVVLFILGIVK.KKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWL    56
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1  .......................MSCCFFVVLFILGIVK.KKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWL    56
consensus                                                                                  * **  !  ** * * **** *!*  !!
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logo
NTDB id 457 SSUD9 RS00080 WP 002936602.1        QEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIHELSHAIQSPGL.INDELLMLR   111
NTDB id 461 GPW51 RS00080 WP 011921639.1        QEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGL.INDELLMLR   111
NTDB id 454 SSU RS00080 WP 011921639.1          QEGMMTLFELLEAQPWLVDEQVQLYCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGL.INDELLMLR   111
NTDB id 424 SGO RS10430 WP 012130755.1          QEGMLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKEL.YLDELVAFR   111
NTDB id 423 SGO RS08370 WP 012130755.1          QEGMLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKEL.YLDELVAFR   111
NTDB id 141 SP RS10155 WP 000588925.1           QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 140 SP RS00070 WP 000588925.1           QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 252 KZH43 RS09050 WP 000588897.1        QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 251 KZH43 RS09050 WP 000588897.1        QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 211 SPD RS09675 WP 000588897.1          QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 210 SPD RS00065 WP 000588897.1          QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 177 SPR RS09210 WP 000588897.1          QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 176 SPR RS00065 WP 000588897.1          QEGMLCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGL.WLDDYYLFH   110
NTDB id 489 SM12261 RS01070 WP 000471940.1      QEGMICLHELISREEELVEDIPRLRKYFKTKFRNRILDHIRKQESQKRRYDKEPYEEVGEISHRISEGGM.WLDEYYLFH   110
NTDB id 517 SMSK321 RS10700 WP 000471945.1      QEGMICLHELISREEELVEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKEAYEEVGEISHRIGEGGL.WLDDYYLFH   110
NTDB id 516 SMSK321 RS09125 WP 000471944.1      QEGMICLHELISKEEELAEDIPRLRKYFKTKFRNRILDYIRKQESQKRRYDKESYEEVGEISHRIGEGGL.WLDEYYLFH   110
NTDB id 582 DLJ51 RS00505 WP 002962720.1        QEARIILYQLLERFPDLANDEEKLRIYFKTKFRSYVLDNIRKQESQKRAFDRMIYEEISELGHMIPSQQM.DTADYCALK   159
NTDB id 554 STRINF RS00370 WP 115283725.1       QEGRIVFFQLLEEHPDLLNNEGKCYSYFKTKFSNHVKDIIRHQESFKRKFNRMPYEEISDISHCVPQVFFFEVEDYVAYQ   112
NTDB id 44 SMU RS09085 WP 002263585.1           QEGMLILHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRQQESQKRRFNRMSYEEVGEIEHCLSSGGM.QLDEYILFR   113
NTDB id 1024874 ABW635 RS07665 WP 003101723.1   QEGRVVLHALLTEFPDLTENDKRLYTYFKTKFSSYIKDVLRHQESYKRKFNKMPYEEIGEVSHKVASKGL.VLDDYIAYQ   112
NTDB id 450 SPYM18 RS08475 WP 011018214.1       QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGL.WLDDYVAYQ   135
NTDB id 449 SPYM18 RS01395 WP 011018214.1       QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGL.WLDDYVAYQ   135
NTDB id 442 SPYM3 RS08515 WP 011106595.1        QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGL.WLDDYVAYQ   135
NTDB id 441 SPYM3 RS01385 WP 011106595.1        QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGL.WLDDYVAYQ   135
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1   QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGL.WLDDYVAYQ   135
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1   QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGL.WLDDYVAYQ   135
consensus                                       !!*** *  !* *   !***  ** *!!!**!** * ! *!*!!!*!!**** *!*****! *   ** ***** *
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logo
                                                  GALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR....   156
NTDB id 457 SSUD9 RS00080 WP 002936602.1
NTDB id 461 GPW51 RS00080 WP 011921639.1          GALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR....   156
NTDB id 454 SSU RS00080 WP 011921639.1            GALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDLQIHLKDFR....   156
NTDB id 424 SGO RS10430 WP 012130755.1            SAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD   160
NTDB id 423 SGO RS08370 WP 012130755.1            SAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD   160
NTDB id 141 SP RS10155 WP 000588925.1             ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 140 SP RS00070 WP 000588925.1             ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 252 KZH43 RS09050 WP 000588897.1          ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 251 KZH43 RS09050 WP 000588897.1          ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 211 SPD RS09675 WP 000588897.1            ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 210 SPD RS00065 WP 000588897.1            ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 177 SPR RS09210 WP 000588897.1            ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 176 SPR RS00065 WP 000588897.1            ETLRDYRNKQSKEKQEELERVLSNERFRGRQRVLRDLRIVFKEFTIRTH   159
NTDB id 489 SM12261 RS01070 WP 000471940.1        ETLRDYRNKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTH   159
NTDB id 517 SMSK321 RS10700 WP 000471945.1        ETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTQ   159
NTDB id 516 SMSK321 RS09125 WP 000471944.1        ETLRDYRSKQSKDKQEELERVLRHERFRGRQRVLRDLRIVFKEFDIRTR   159
NTDB id 582 DLJ51 RS00505 WP 002962720.1          EKLKELKQKLAPEDYAKILLLMRGGAFKGRSAFIKDIKVEFEDFDEDN.   207
NTDB id 554 STRINF RS00370 WP 115283725.1         DSLACLRRTLGREDRLKLEKVIRGERFEGKKAFLKSIELYFSDFRP...   158
NTDB id 44 SMU RS09085 WP 002263585.1             DSLLAYKQGLSTEKQELFERLVAGEHFLGRQSMLKDLRKKLSDFKEK..   160
NTDB id 1024874 ABW635 RS07665 WP 003101723.1     AIVEELKCILNGTELEQFYALVRGERFSGRKALLRKIKPYFIDFKE...   158
NTDB id 450 SPYM18 RS08475 WP 011018214.1         EVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 449 SPYM18 RS01395 WP 011018214.1         EVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 442 SPYM3 RS08515 WP 011106595.1          EVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 441 SPYM3 RS01385 WP 011106595.1          EVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1     EVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1     EVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL.   183
consensus                                         * * ****  * *     ****  **!*!*  *****   ***!
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X non conserved
X similar
X ≥ 50% conserved