

NTDB id 582 DLJ51 RS00505 WP 002962720.1
NTDB id 450 SPYM18 RS08475 WP 011018214.1
NTDB id 449 SPYM18 RS01395 WP 011018214.1
NTDB id 442 SPYM3 RS08515 WP 011106595.1
NTDB id 441 SPYM3 RS01385 WP 011106595.1
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1
NTDB id 44 SMU RS09085 WP 002263585.1
NTDB id 457 SSUD9 RS00080 WP 002936602.1
NTDB id 461 GPW51 RS00080 WP 011921639.1
NTDB id 454 SSU RS00080 WP 011921639.1
NTDB id 424 SGO RS10430 WP 012130755.1
NTDB id 423 SGO RS08370 WP 012130755.1
NTDB id 337385 EQH35 RS09360 WP 000588866.1
NTDB id 252 KZH43 RS09050 WP 000588897.1
NTDB id 251 KZH43 RS09050 WP 000588897.1
NTDB id 211 SPD RS09675 WP 000588897.1
NTDB id 210 SPD RS00065 WP 000588897.1
NTDB id 177 SPR RS09210 WP 000588897.1
NTDB id 176 SPR RS00065 WP 000588897.1
NTDB id 141 SP RS10155 WP 000588925.1
NTDB id 140 SP RS00070 WP 000588925.1
NTDB id 488 SM12261 RS00065 WP 000471939.1
NTDB id 489 SM12261 RS01070 WP 000471940.1
NTDB id 517 SMSK321 RS10700 WP 000471945.1
NTDB id 516 SMSK321 RS09125 WP 000471944.1
consensus

[illegible]

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NTDB id 582 DLJ51 RS00505 WP 002962720.1	DDWRQEGARTILLYQLIERFPDLANDEEKLRIVFKTKFRSSYLDMIRKQESQKRAFDRMIYEEISEIGHMTPSQQMDTADYC	156
NTDB id 450 SPYM18 RS08475 WP 011018214.1	DDWLQEGHTILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLIRREQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 449 SPYM18 RS01395 WP 011018214.1	DDWLQEGHTILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLIRREQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 442 SPYM3 RS08515 WP 011106595.1	DDWLQEGHTILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLIRREQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 441 SPYM3 RS01385 WP 011106595.1	DDWLQEGHTILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLIRREQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	DDWLQEGHTILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLIRREQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	DDWLQEGHTILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLIRREQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 44 SMU RS09085 WP 002263585.1	EDWQEGGMILHLHREHPELEEDDTKLYTYFKTRFSNYIKDVLRRQESQKRFRNRMSYEEVGEIEHCSSGCMQLDEYI	110
NTDB id 457 SSUD9 RS00080 WP 002936602.1	DDWEQEGMNTLFELLEAQPWLVDEQQVQLYCYFKVKFRNRKIDRIRKQESQKRKFDRMPHEDIHELSHATQSPGLINDELL	108
NTDB id 461 GPW51 RS00080 WP 011921639.1	DDWEQEGMNTLFELLEAQPWLVDEQQVQLYCYFKVKFRNRKIDRIRKQESQKRKFDRMPHEDIYELSHATQSPGLINDELL	108
NTDB id 454 SSU RS00080 WP 011921639.1	DDWEQEGMNTLFELLEAQPWLVDEQQVQLYCYFKVKFRNRKIDRIRKQESQKRKFDRMPHEDIYELSHATQSPGLINDELL	108
NTDB id 424 SGO RS10430 WP 012130755.1	ADWRQEGMVLVLYELLKSHPNLLEDQPRLRYRYFKTKFRNRILDHILIRREQESQKRKLDQRPYEEVSEIGHRIIRMKELYLDELV	108
NTDB id 423 SGO RS08370 WP 012130755.1	ADWRQEGMVLVLYELLKSHPNLLEDQPRLRYRYFKTKFRNRILDHILIRREQESQKRKLDQRPYEEVSEIGHRIIRMKELYLDELV	108
NTDB id 337385 EQH35 RS09360 WP 000588866.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 252 KZH43 RS09050 WP 000588897.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 251 KZH43 RS09050 WP 000588897.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 211 SPD RS09675 WP 000588897.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 210 SPD RS00065 WP 000588897.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 177 SPR RS09210 WP 000588897.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 176 SPR RS00065 WP 000588897.1	SDWDQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 141 SP RS10155 WP 000588925.1	SDWEQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 140 SP RS00070 WP 000588925.1	SDWEQEGMCLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDDYY	107
NTDB id 488 SM12261 RS00065 WP 000471939.1	SDWDQEGMCLHELISREEGLVEDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDEYY	107
NTDB id 489 SM12261 RS01070 WP 000471940.1	SDWDQEGMCLHELISREEELVEDIPRLRKYFKTKFRNRILDHIRKQESQKRKYDKEPYEEVGEISHRISEGLWLDEYY	107
NTDB id 517 SMSK321 RS10700 WP 000471945.1	SDWDQEGMCLHELISREEELVEDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEAYEEVGEISHRISEGLWLDDYY	107
NTDB id 516 SMSK321 RS09125 WP 000471944.1	SDWDQEGMCLHELISKEEELVEDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKESYEEVGEISHRISEGLWLDEYY	107
consensus	!! !!*** ! *!* * **** *! *!!!!*!***** ! *!*!!!!!!***** *!***!* ! * *******	

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NTDB id 582 DLJ51 RS00505 WP 002962720.1	ALKEKLEKELKQKLAPEDYAKILLMRGGAFKGRSAFLKDIKVEFEDFDEDN.	207
NTDB id 450 SPYM18 RS08475 WP 011018214.1	AYQEVVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAAQL.	183
NTDB id 449 SPYM18 RS01395 WP 011018214.1	AYQEVVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAAQL.	183
NTDB id 442 SPYM3 RS08515 WP 011106595.1	AYQEVVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAAQL.	183
NTDB id 441 SPYM3 RS01385 WP 011106595.1	AYQEVVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAAQL.	183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	AYQEVVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAAQL.	183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	AYQEVVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAAQL.	183
NTDB id 44 SMU RS09085 WP 002263585.1	LFRLSLLAYKQGLSTEKQELFERLVAGEHFLGRQSMKDLRKKLSDFKEK..	160
NTDB id 457 SSUD9 RS00080 WP 002936602.1	MLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDQLIHLKDFR....	156
NTDB id 461 GPW51 RS00080 WP 011921639.1	MLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDQLIHLKDFR....	156
NTDB id 454 SSU RS00080 WP 011921639.1	MLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDQLIHLKDFR....	156
NTDB id 424 SGO RS10430 WP 012130755.1	AFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDL SYHLRDFNPRLD	160
NTDB id 423 SGO RS08370 WP 012130755.1	AFRSAMSEYRSRLSPEEAKQYERLMADERFKGRKAMLKDL SYHLRDFNPRLD	160
NTDB id 337385 EQH35 RS09360 WP 000588866.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 252 KZH43 RS09050 WP 000588897.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 251 KZH43 RS09050 WP 000588897.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 211 SPD RS09675 WP 000588897.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 210 SPD RS00065 WP 000588897.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 177 SPR RS09210 WP 000588897.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 176 SPR RS00065 WP 000588897.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 141 SP RS10155 WP 000588925.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 140 SP RS00070 WP 000588925.1	LFHETLRDYRNKQSKEKQEELERVLSNERFGRQRVLRDLRIVFKEFTIRTH	159
NTDB id 488 SM12261 RS00065 WP 000471939.1	LFHETLRDYRNKQSKDKQEELERVLRHERFGRQRVLRDLRIVFKEFDIRTH	159
NTDB id 489 SM12261 RS01070 WP 000471940.1	LFHETLRDYRNKQSKDKQEELERVLRHERFGRQRVLRDLRIVFKEFDIRTH	159
NTDB id 517 SMSK321 RS10700 WP 000471945.1	LFHETLRDYRSKQSKDKQEELERVLRHERFGRQRVLRDLRIVFKEFDIRTQ	159
NTDB id 516 SMSK321 RS09125 WP 000471944.1	LFHETLRDYRSKQSKDKQEELERVLRHERFGRQRVLRDLRIVFKEFDIRTR	159
consensus	** * ***** * * * ***** **!*!! ***** * ***!	

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved