logo


```
                                                        MFKELYEEVQGIVyKCRNEYYLHLWELSDWpQEGMLcLHELISREEGLvEDiPRL
                                                        MSCCFFVVLFILGIVKKKRRLKMSiETRAAFkkVKPtiLkkkRHyyIqLWDRDDWlQEGhiiLfqLLEaYPELiDEerl
NTDB id 450 SPYM18 RS08475 WP 011018214.1    MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWLQEGHIILLQLLERYPELIEEEERL    80
NTDB id 449 SPYM18 RS01395 WP 011018214.1    MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWLQEGHIILLQLLERYPELIEEEERL    80
NTDB id 442 SPYM3 RS08515 WP 011106595.1     MSCCFFVVLFILGIVKKKRRLKMSIETRAVFEKVKPIILKLKRHYYIQLWDRDDWLQEGHIILLQLLERYPELIEEEERL    80
NTDB id 441 SPYM3 RS01385 WP 011106595.1     MSCCFFVVLFILGIVKKKRRLKMSIETRAVFEKVKPIILKLKRHYYIQLWDRDDWLQEGHIILLQLLERYPELIEEEERL    80
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1 MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWLQEGHIILLQLLERYPELIEEEERL    80
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1 MSCCFFVVLFILGIVKKKRRLKMSIETRAAFEKVKPIILKLKRHYYIQLWDRDDWLQEGHIILLQLLERYPELIEEEERL    80
NTDB id 44 SMU RS09085 WP 002263585.1        ........................MEEDFEIVFNKVKPIVWKLSRYYFIKMWTREDWQQEGMLILHQLLREHPELEEDDTKL    58
NTDB id 457 SSUD9 RS00080 WP 002936602.1     ........................MEFEKVYASVKGIVNKARKEFYIKLWDRDDWEQEGMMTLFELLEAQPWLVDEQVQL    56
NTDB id 461 GPW51 RS00080 WP 011921639.1     ........................MEFEKVYASVKGIVNKARKEFYIKLWDRDDWEQEGMMTLFELLEAQPWLVDEQVQL    56
NTDB id 454 SSU RS00080 WP 011921639.1       ........................MEFEKVYASVKGIVNKARKEFYIKLWDRDDWEQEGMMTLFELLEAQPWLVDEQVQL    56
NTDB id 424 SGO RS10430 WP 012130755.1       ........................MKFEDVYKQVEGIVKRCYKDYYLHLWEYADWRQEGMLVLYELLKSHPNLLEDQPRL    56
NTDB id 423 SGO RS08370 WP 012130755.1       ........................MKFEDVYKQVEGIVKRCYKDYYLHLWEYADWRQEGMLVLYELLKSHPNLLEDQPRL    56
NTDB id 337542 EQH33 RS09125 WP 000588897.1  ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 252 KZH43 RS09050 WP 000588897.1     ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 251 KZH43 RS09050 WP 000588897.1     ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 211 SPD RS09675 WP 000588897.1       ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 210 SPD RS00065 WP 000588897.1       ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 177 SPR RS09210 WP 000588897.1       ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 176 SPR RS00065 WP 000588897.1       ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWDQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 141 SP RS10155 WP 000588925.1        ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWEQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 140 SP RS00070 WP 000588925.1        ........................MIKELYEEVQGTVYKCRNEYYLHLWELSDWEQEGMLCLHELISREEGLVDDIPRL    55
NTDB id 488 SM12261 RS00065 WP 000471939.1   ........................MFKELYEEVQGIVYKCRNEYHLHLWELSDWDQEGMICLHELISREEGIVEDIPRL    55
NTDB id 489 SM12261 RS01070 WP 000471940.1   ........................MFKELYEEVQGIVYKCRNEYYLHLWELSDWDQEGMICLHELISREEELVEDIPRL    55
NTDB id 517 SMSK321 RS10700 WP 000471945.1   ........................MFKELYKEVQGIVYKSRNEYYLHLWELSDWDQEGMICLHELISREEELAEDIPRL    55
NTDB id 516 SMSK321 RS09125 WP 000471944.1   ........................MFKELYKEVQGIVYKSRNEYYLHLWELSDWDQEGMICLHELISKEEELAEDIPRL    55
consensus                                                            *  *******!!*****************!****!!!*!!!**!**!*****  ******!
```

logo

Label	Sequence	Position
NTDB id 450 SPYM18 RS08475 WP 011018214.1	YRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQEVIASLENQLNSQERMQFKALIRGE	160
NTDB id 449 SPYM18 RS01395 WP 011018214.1	YRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQEVIASLENQLNSQERMQFKALIRGE	160
NTDB id 442 SPYM3 RS08515 WP 011106595.1	YRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQEVIASLENQLNSQERMQFQALIRGE	160
NTDB id 441 SPYM3 RS01385 WP 011106595.1	YRYFKTKFSSYLKDLLRRQ...QFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQEVIASLENQLNSQERMQFQALIRGE	160
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	YRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQEVIASLENQLNSQERMQFQALIRGE	160
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	YRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQEVIASLENQLNSQERMQFQALIRGE	160
NTDB id 44 SMU RS09085 WP 002263585.1	YIYFKTRFSNYIKDVLRQQESQKRRFNRMSYEEVGEIEHCLSSGGMQLDEYILPRDSLLAYKQGLSTEKQELFERLVAGE	138
NTDB id 457 SSUD9 RS00080 WP 002936602.1	YCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIHELSHAIQSPGLINDELLMLRGALRDYRKNLSNDQLDKYEKLISGQ	136
NTDB id 461 GPW51 RS00080 WP 011921639.1	YCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLINDELLMLRGALRDYRKNLSNDQLDKYEKLISGQ	136
NTDB id 454 SSU RS00080 WP 011921639.1	YCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLINDELLMLRGALRDYRKNLSNDQLDKYEKLISGQ	136
NTDB id 424 SGO RS10430 WP 012130755.1	YRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKELYLDELVAFRSAMSEYRSRLSPEEAKQYERLMADE	136
NTDB id 423 SGO RS08370 WP 012130755.1	YRYFKTKFRNRIHDLIRRQESQKRKLDRQPYEEVSEIGHRLRMKELYLDELVAFRSAMSEYRSRLSPEEAKQYERLMADE	136
NTDB id 337542 EQH33 RS09125 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 252 KZH43 RS09050 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 251 KZH43 RS09050 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 211 SPD RS09675 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 210 SPD RS00065 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 177 SPR RS09210 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 176 SPR RS00065 WP 000588897.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 141 SP RS10155 WP 000588925.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 140 SP RS00070 WP 000588925.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYYLFHETLRDYRNKQSKEKQEELERVLSNE	135
NTDB id 488 SM12261 RS00065 WP 000471939.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGMWLDEYYLFHETLRDYRNKQSKDKQEELERVLRHE	135
NTDB id 489 SM12261 RS01070 WP 000471940.1	RKYFKTKFRNRILDHIRKQESQKRRYDKEPYEEVGEISHRISEGGMWLDEYYLFHETLRDYRNKQSKDKQEELERVLRHE	135
NTDB id 517 SMSK321 RS10700 WP 000471945.1	RKYFKTKFRNRILDYIRKQESQKRRYDKEAYEEVGEISHRIGEGGLWLDDYYLFHETLRDYRSKQSKDKQEELERVLRHE	135
NTDB id 516 SMSK321 RS09125 WP 000471944.1	RKYFKTKFRNRILDYIRKQESQKRRYDKESYEEVGEISHRIGEGGLWLDEYYLFHETLRDYRSKQSKDKQEELERVLRHE	135

consensus
!!!*****! *!*!!!!!!!*******!****!***!**!** ******!***********************

```
logo                                    RFᵣGRQᵣᵥLRDLᵣᵢᵥFKEFₜᵢRTₕ

NTDB id 450 SPYM18 RS08475 WP 011018214.1      RFKGRRALLRKISPYFKEFAQQL.    183
NTDB id 449 SPYM18 RS01395 WP 011018214.1      RFKGRRALLRKISPYFKEFAQQL.    183
NTDB id 442 SPYM3 RS08515 WP 011106595.1       RFKGRRALLRKISPYFKEFAQQL.    183
NTDB id 441 SPYM3 RS01385 WP 011106595.1       RFKGRRALLRKISPYFKEFAQQL.    183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1   RFKGRRALLRKISPYFKEFAQQL.    183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1   RFKGRRALLRKISPYFKEFAQQL.    183
NTDB id 44 SMU RS09085 WP 002263585.1          HFLGRQSMLKDLRKKLSDFKEK..    160
NTDB id 457 SSUD9 RS00080 WP 002936602.1       CFNGRREMIRDLQIHLKDFR....    156
NTDB id 461 GPW51 RS00080 WP 011921639.1       CFNGRREMIRDLQIHLKDFR....    156
NTDB id 454 SSU RS00080 WP 011921639.1         CFNGRREMIRDLQIHLKDFR....    156
NTDB id 424 SGO RS10430 WP 012130755.1         RFKGRAMLKDLSYHLRDFNPRLD     160
NTDB id 423 SGO RS08370 WP 012130755.1         RFKGRAMLKDLSYHLRDFNPRLD     160
NTDB id 337542 EQH33 RS09125 WP 000588897.1    RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 252 KZH43 RS09050 WP 000588897.1       RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 251 KZH43 RS09050 WP 000588897.1       RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 211 SPD RS09675 WP 000588897.1         RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 210 SPD RS00065 WP 000588897.1         RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 177 SPR RS09210 WP 000588897.1         RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 176 SPR RS00065 WP 000588897.1         RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 141 SP RS10155 WP 000588925.1          RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 140 SP RS00070 WP 000588925.1          RFRGRQRVLRDLRIVFKEFTIRTH    159
NTDB id 488 SM12261 RS00065 WP 000471939.1     RFRGRQRVLRDLRIVFKEFDIRTH    159
NTDB id 489 SM12261 RS01070 WP 000471940.1     RFRGRQRVLRDLRIVFKEFDIRTH    159
NTDB id 517 SMSK321 RS10700 WP 000471945.1     RFRGRQRVLRDLRIVFKEFDIRTQ    159
NTDB id 516 SMSK321 RS09125 WP 000471944.1     RFRGRQRVLRDLRIVFKEFDIRTR    159
consensus                                      *!*!!*************!  ***
```

☒ non conserved

☒ similar

☒ ≥ 50% conserved