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NTDB id 442 SPYM3 RS08515 WP 011106595.1	MSCCFFVVLFILGIVKKKRRRLKMSIETRAVFEKVKPITILKLKRHHYYIQLWDRDDWLQEGCHITILLQLLERYPELIEEEEERL	80
NTDB id 441 SPYM3 RS01385 WP 011106595.1	MSCCFFVVLFILGIVKKKRRRLKMSIETRAVFEKVKPITILKLKRHHYYIQLWDRDDWLQEGCHITILLQLLERYPELIEEEEERL	80
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	MSCCFFVVLFILGIVKKKRRRLKMSIETRAAFKVKPITILKLKRHHYYIQLWDRDDWLQEGCHITILLQLLERYPELIEEEEERL	80
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	MSCCFFVVLFILGIVKKKRRRLKMSIETRAAFKVKPITILKLKRHHYYIQLWDRDDWLQEGCHITILLQLLERYPELIEEEEERL	80
NTDB id 450 SPYM18 RS08475 WP 011018214.1	MSCCFFVVLFILGIVKKKRRRLKMSIETRAAFKVKPITILKLKRHHYYIQLWDRDDWLQEGCHITILLQLLERYPELIEEEEERL	80
NTDB id 449 SPYM18 RS01395 WP 011018214.1	MSCCFFVVLFILGIVKKKRRRLKMSIETRAAFKVKPITILKLKRHHYYIQLWDRDDWLQEGCHITILLQLLERYPELIEEEEERL	80
NTDB id 554 STRINF RS00370 WP 115283725.1	MDFERYFQTVKPIILKLRRHVFVKLWDYEDWIQEGRIVFFQLLEEHPDILNNEGKC	56
NTDB id 320 STU RS10340 WP 002949220.1	MEQEVFVKAYEKVRPIVLKAFRQYFIQLWDQADMEQEAMMTLYQLLKAFPDLEKDDDKL	59
NTDB id 47 STER RS00925 WP 002949220.1	MEQEVFVKAYEKVRPIVLKAFRQYFIQLWDQADMEQEAMMTLYQLLKAFPDLEKDDDKL	59
NTDB id 468 HSISS4 RS00725 WP 021143466.1	MEQEVFVHAYEVVRPIVLKASRQYFIQLWDQADMEQEAMMTLYQLLEKFPPELKSDDDKL	59
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	MEQEVFVHAYEVVRPIVLKASRQYFIQLWDLADMEQEAMMTLYQLLEKFPPELKSDDDKL	59
NTDB id 44 SMU RS09085 WP 002263585.1	MEEDFEIVFNKVKPIVWKLSEYFFIKMTWREDWQEGMILHQLLREHPELEFDDTKL	58
NTDB id 141 SP RS10155 WP 000588925.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWEQEGMICLHELISREEGLVDDIPRL	55
NTDB id 140 SP RS00070 WP 000588925.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWEQEGMICLHELISREEGLVDDIPRL	55
NTDB id 252 KZH43 RS09050 WP 000588897.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEGLVDDIPRL	55
NTDB id 251 KZH43 RS09050 WP 000588897.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEGLVDDIPRL	55
NTDB id 211 SPD RS09675 WP 000588897.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEGLVDDIPRL	55
NTDB id 210 SPD RS00065 WP 000588897.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEGLVDDIPRL	55
NTDB id 177 SPR RS09210 WP 000588897.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEGLVDDIPRL	55
NTDB id 176 SPR RS00065 WP 000588897.1	MIKELYEEVQCTVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEGLVDDIPRL	55
NTDB id 489 SM12261 RS01070 WP 000471940.1	MFKELYEEVQGVIVYKCRNEYYLHLWLWELSDWDQEGMICLHELISREEELVEDIPRL	55
NTDB id 488 SM12261 RS00065 WP 000471939.1	MFKELYEEVQGVIVYKCRNEYHLHLWLWELSDWDQEGMICLHELISREEGIVEDIPRL	55
NTDB id 516 SMSK321 RS09125 WP 000471944.1	MFKELYKEVQGVIVYKSRNEYYLHLWLWELSDWDQEGMICLHELISKEEELVEDIPRL	55
NTDB id 517 SMSK321 RS10700 WP 000471945.1	MFKELYKEVQGVIVYKSRNEYYLHLWLWELSDWDQEGMICLHELISREEELVEDIPRL	55
NTDB id 424 SGO RS10430 WP 012130755.1	MKFEDVYKQVEGIVKRCYKDYLLHLWEYADWRQEGMIVLYELLKSHPNLLEDQPRL	56
NTDB id 423 SGO RS08370 WP 012130755.1	MKFEDVYKQVEGIVKRCYKDYLLHLWEYADWRQEGMIVLYELLKSHPNLLEDQPRL	56
NTDB id 1120168 EL100 RS03665 WP 006595314.1	MNFVKSYBKVKWIVWKCEKEFYIHLWDHADWEQEGRIVLVYELQISNPEVEENEEL	56
NTDB id 457 SSUD9 RS00080 WP 002936602.1	MEFEKVYASVKGIVNKAARKEFYIKLWDRDDWEQEGMTLFELEAQPWLVDEQVQL	56
NTDB id 461 GPW51 RS00080 WP 011921639.1	MEFEKVYASVKGIVNKAARKEFYIKLWDRDDWEQEGMTLFELEAQPWLVDEQVQL	56
NTDB id 454 SSU RS00080 WP 011921639.1	MEFEKVYASVKGIVNKAARKEFYIKLWDRDDWEQEGMTLFELEAQPWLVDEQVQL	56
consensus	* * * * ! * * * * * * * * * * * ! * * ! * * ! * * ! * * * * * * * * * * * *	

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NTDB id 442 SPYM3 RS08515 WP 011106595.1	YRYFKTKFSSYLKDLIRRRQESQKRQFHKLAYEEI	GEVAHAIPSRGLW	LDDYVAYQEV	IASLENQLNSQERMQFQAL	IRG	159
NTDB id 441 SPYM3 RS01385 WP 011106595.1	YRYFKTKFSSYLKDLIRRRQESQKRQFHKLAYEEI	GEVAHAIPSRGLW	LDDYVAYQEV	IASLENQLNSQERMQFQAL	IRG	159
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	YRYFKTKFSSYLKDLIRRRQESQKRQFHKLAYEEI	GEVAHAIPSRGLW	LDDYVAYQEV	IASLENQLNSQERMQFQAL	IRG	159
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	YRYFKTKFSSYLKDLIRRRQESQKRQFHKLAYEEI	GEVAHAIPSRGLW	LDDYVAYQEV	IASLENQLNSQERMQFQAL	IRG	159
NTDB id 450 SPYM18 RS08475 WP 011018214.1	YRYFKTKFSSYLKDLIRRRQESQKRQFHKLAYEEI	GEVAHAIPSRGLW	LDDYVAYQEV	IASLENQLNSQERMQFQAL	IRG	159
NTDB id 449 SPYM18 RS01395 WP 011018214.1	YRYFKTKFSSYLKDLIRRRQESQKRQFHKLAYEEI	GEVAHAIPSRGLW	LDDYVAYQEV	IASLENQLNSQERMQFQAL	IRG	159
NTDB id 554 STRINF RS00370 WP 115283725.1	YSYFKTKFSSNHVKDIIRHQESFKRKFNRMPYEEI	SDISHCVPQVFFH	VEDYVAYQD	SLACLRRTLGR	DRLKLEKVI	IRG 136
NTDB id 320 STU RS10340 WP 002949220.1	RRYFKTKFRNRLNDEVRRQESVKKRQANRQCYVEI	SDIAFCIPNKELD	MVDRLAYDEQLNAF	REQLSSEDSLK	LDRL	LGG 138
NTDB id 47 STER RS00925 WP 002949220.1	RRYFKTKFRNRLNDEVRRQESVKKRQANRQCYVEI	SDIAFCIPNKELD	MVDRLAYDEQLNAF	REQLSSEDSLK	LDRL	LGG 138
NTDB id 468 HSISS4 RS00725 WP 021143466.1	RRYFKTKFRNRLNDEVRRQESVKKRQANRQCYVEI	SDIAFCIPNKELD	AVDRLVYDEQLNAF	RNQLSSE	DATKLDRL	LAG 138
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	RRYFKTKFRNRLNDEVRRQESVKKRQANRQCYVEI	SDIAFCIPNKELD	AVDRLVYDEQLNAF	RNQLSSE	DATKLDRL	LAG 138
NTDB id 44 SMU RS09085 WP 002263585.1	YIYFKTRFSNYIKDVLRRQESQKRFRFNRMSYEEV	GEIEHCLSSGCMQ	LDEYILFR	SLLAYKQ	GLSTEKKQEL	FERLVAG 137
NTDB id 141 SP RS10155 WP 000588925.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 140 SP RS00070 WP 000588925.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 252 KZH43 RS09050 WP 000588897.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 251 KZH43 RS09050 WP 000588897.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 211 SPD RS09675 WP 000588897.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 210 SPD RS00065 WP 000588897.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 177 SPR RS09210 WP 000588897.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 176 SPR RS00065 WP 000588897.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRNKQ	SKEKQEELER	VLSN 134
NTDB id 489 SM12261 RS01070 WP 000471940.1	RKYFKTKFRNRLIDHIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDEYVYLFHET	LRDYRNKQ	SKDKQEELER	VLRH 134
NTDB id 488 SM12261 RS00065 WP 000471939.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEPYEEV	GEISHRISEGLW	LDEYVYLFHET	LRDYRNKQ	SKDKQEELER	VLRH 134
NTDB id 516 SMSK321 RS09125 WP 000471944.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKESYEEV	GEISHRISEGLW	LDEYVYLFHET	LRDYRSKQ	SKDKQEELER	VLRH 134
NTDB id 517 SMSK321 RS10700 WP 000471945.1	RKYFKTKFRNRLIDYIRKQESQKRRYDKEAYEEV	GEISHRISEGLW	LDDYVYLFHET	LRDYRSKQ	SKDKQEELER	VLRH 134
NTDB id 424 SGO RS10430 WP 012130755.1	YRYFKTKFRNRIHDLIRRRQESQKRKLDRQPYEEV	SEIGHRLRMKELY	LDELVAFRSAMSEYRSRL	SPPEAKQYER	LMAD	135
NTDB id 423 SGO RS08370 WP 012130755.1	YRYFKTKFRNRIHDLIRRRQESQKRKLDRQPYEEV	SEIGHRLRMKELY	LDELVAFRSAMSEYRSRL	SPPEAKQYER	LMAD	135
NTDB id 1120168 EL100 RS03665 WP 006595314.1	LTYFKTKFRNRIKDKVRKQESDKRKLNVKVPYTEI	GEISHRLRSKELF	LDELVLRLRGALKEFR	ENLTDQEK	FEYDKL	LMN 135
NTDB id 457 SSUD9 RS00080 WP 002936602.1	YCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDI	YELSHAIQSPGLI	NDELLMLRGALRDYRKN	LSNDQLDKYE	KLISG	135
NTDB id 461 GPW51 RS00080 WP 011921639.1	YCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDI	YELSHAIQSPGLI	NDELLMLRGALRDYRKN	LSNDQLDKYE	KLISG	135
NTDB id 454 SSU RS00080 WP 011921639.1	YCYFKVKFRNRIKDRIRKQESQKRKFDRMPHEDI	YELSHAIQSPGLI	NDELLMLRGALRDYRKN	LSNDQLDKYE	KLISG	135
consensus	*!!!!*!*!*!*!* ! *!*!!!!*!*!*!* *!*!*!*!*!*!*!* *	*!*!* *!*!*!*!*!* *	*!*!* *!*!*!*!* *	*!*!* *	*!*!* *	

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NTDB id 442 SPYM3 RS08515 WP 011106595.1	ERF K GRRA L LR K ISPY F KE F AQQL...	183
NTDB id 441 SPYM3 RS01385 WP 011106595.1	ERF K GRRA L LR K ISPY F KE F AQQL...	183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	ERF K GRRA L LR K ISPY F KE F AQQL...	183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	ERF K GRRA L LR K ISPY F KE F AQQL...	183
NTDB id 450 SPYM18 RS08475 WP 011018214.1	ERF K GRRA L LR K ISPY F KE F AQQL...	183
NTDB id 449 SPYM18 RS01395 WP 011018214.1	ERF K GRRA L LR K ISPY F KE F AQQL...	183
NTDB id 554 STRINF RS00370 WP 115283725.1	ERF E G K KA F L K SI E LY F S D FRP.....	158
NTDB id 320 STU RS10340 WP 002949220.1	ECF R GR K K M IRE L RFWM V DFDPCNEED	165
NTDB id 47 STER RS00925 WP 002949220.1	ECF R GR K K M IRE L RFWM V DFDPCNEED	165
NTDB id 468 HSISS4 RS00725 WP 021143466.1	ECF R GR K K M IRE L KFW M VDFDPYNEDD	165
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	ECF R GR K K M IRE L KFW M VDFDPYNEDD	165
NTDB id 44 SMU RS09085 WP 002263585.1	EF F L C R Q S M L K DL R KK L S D FKE K	160
NTDB id 141 SP RS10155 WP 000588925.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 140 SP RS00070 WP 000588925.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 252 KZH43 RS09050 WP 000588897.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 251 KZH43 RS09050 WP 000588897.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 211 SPD RS09675 WP 000588897.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 210 SPD RS00065 WP 000588897.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 177 SPR RS09210 WP 000588897.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 176 SPR RS00065 WP 000588897.1	ERF R GR Q R V LR D L R IV F KE F TIR T H..	159
NTDB id 489 SM12261 RS01070 WP 000471940.1	ERF R GR Q R V LR D L R IV F KE F DIR T H..	159
NTDB id 488 SM12261 RS00065 WP 000471939.1	ERF R GR Q R V LR D L R IV F KE F DIR T H..	159
NTDB id 516 SMSK321 RS09125 WP 000471944.1	ERF R GR Q R V LR D L R IV F KE F DIR T R..	159
NTDB id 517 SMSK321 RS10700 WP 000471945.1	ERF R GR Q R V LR D L R IV F KE F DIR T Q..	159
NTDB id 424 SGO RS10430 WP 012130755.1	ERF K GR K AM L K DL S YHL R DFN P RLD..	160
NTDB id 423 SGO RS08370 WP 012130755.1	ERF K GR K AM L K DL S YHL R DFN P RLD..	160
NTDB id 1120168 EL100 RS03665 WP 006595314.1	QR F S C K A K M K R RLQE Y L K DF K DHHL..	160
NTDB id 457 SSUD9 RS00080 WP 002936602.1	Q C F N GR R EM I RD L Q I HL K DFR.....	156
NTDB id 461 GPW51 RS00080 WP 011921639.1	Q C F N GR R EM I RD L Q I HL K DFR.....	156
NTDB id 454 SSU RS00080 WP 011921639.1	Q C F N GR R EM I RD L Q I HL K DFR.....	156
consensus	***!***!*****!***!	

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