

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 554 STRINF RS00370 WP 115283725.1
NTDB id 320 STU RS10340 WP 002949220.1
NTDB id 47 STER RS00925 WP 002949220.1
NTDB id 50 STRSA0001 RS07545 WP 002885610.1
NTDB id 468 HSISS4 RS00725 WP 021143466.1
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 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 489 SM12261 RS01070 WP 000471940.1
NTDB id 488 SM12261 RS00065 WP 000471939.1
NTDB id 517 SMSK321 RS10700 WP 000471945.1
NTDB id 516 SMSK321 RS09125 WP 000471944.1
NTDB id 121189 DK43 RS01070 WP 022525389.1
NTDB id 424 SGO RS10430 WP 012130755.1
NTDB id 423 SGO RS08370 WP 012130755.1
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NTDB id 582 DLJ51 RS00505 WP 002962720.1	DDWRQEARIIILYQLLERFPDLANDDEEKLRIVFKTKFRSYVLDNIRKQESQKRAFDRMIYEEISEIGHMTPSQQMD.TADY	155
NTDB id 450 SPYM18 RS08475 WP 011018214.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDDY	131
NTDB id 449 SPYM18 RS01395 WP 011018214.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDDY	131
NTDB id 442 SPYM3 RS08515 WP 011106595.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDDY	131
NTDB id 441 SPYM3 RS01385 WP 011106595.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDDY	131
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDDY	131
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDDY	131
NTDB id 554 STRINF RS00370 WP 115283725.1	EDWIQEGRIIVFFQLLEEHPDLINNEGKCYSYFKTKFSNVKVDIIRHQESFKRKFNRMPEYEEISDISHCPQVFFFEVEDY	108
NTDB id 320 STU RS10340 WP 002949220.1	ADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRINDEVRRQESVKKRQANRQCQYVEISDIAFCIPNKEID.MVDR	110
NTDB id 47 STER RS00925 WP 002949220.1	ADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRINDEVRRQESVKKRQANRQCQYVEISDIAFCIPNKEID.MVDR	110
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	ADMEQEAMMTLYQLLEKFPPELKSDDDKLRRYFKTKFRNRINDEVRRQESVKKRQANRQCQYVEISDIAFCIPNKEID.AVDR	110
NTDB id 468 HSISS4 RS00725 WP 021143466.1	ADMEQEAMMTLYQLLEKFPPELKSDDDKLRRYFKTKFRNRINDEVRRQESVKKRQANRQCQYVEISDIAFCIPNKEID.AVDR	110
NTDB id 44 SMU RS09085 WP 002263585.1	EDWQQEGMILHLHQLLREHPELEEDDTKLYTYFKTRFSNYIKDVLRRQESQKRFRNRMSYEEVGEIEHCLSSGCMQ.LDEY	109
NTDB id 457 SSUD9 RS00080 WP 002936602.1	DDWEQEGMNTLFELEEAQPWLVDDEQVQLYCYFKVKFRNRIRKDRIRKQESQKRKFDRMPHEDIYELSHATQSPGLI.NDEL	107
NTDB id 461 GPW51 RS00080 WP 011921639.1	DDWEQEGMNTLFELEEAQPWLVDDEQVQLYCYFKVKFRNRIRKDRIRKQESQKRKFDRMPHEDIYELSHATQSPGLI.NDEL	107
NTDB id 454 SSU RS00080 WP 011921639.1	DDWEQEGMNTLFELEEAQPWLVDDEQVQLYCYFKVKFRNRIRKDRIRKQESQKRKFDRMPHEDIYELSHATQSPGLI.NDEL	107
NTDB id 252 KZH43 RS09050 WP 000588897.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 251 KZH43 RS09050 WP 000588897.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 211 SPD RS09675 WP 000588897.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 210 SPD RS00065 WP 000588897.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 177 SPR RS09210 WP 000588897.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 176 SPR RS00065 WP 000588897.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 141 SP RS10155 WP 000588925.1	SDWEQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 140 SP RS00070 WP 000588925.1	SDWEQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 489 SM12261 RS01070 WP 000471940.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDEY	106
NTDB id 488 SM12261 RS00065 WP 000471939.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDEY	106
NTDB id 517 SMSK321 RS10700 WP 000471945.1	SDWDQEGMICLHELISREEGLVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDDY	106
NTDB id 516 SMSK321 RS09125 WP 000471944.1	SDWDQEGMICLHELISKEEELVDDIPRLRKYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLW.LDEY	106
NTDB id 121189 DK43 RS01070 WP 022525389.1	SDWDQEGMVLVLYQLVSRYPQLVESSESLYVYKTKFRNHLIDILRKQESQKRKLDRQAYEEVSEIGHKLSLKELY.LDEL	107
NTDB id 424 SGO RS10430 WP 012130755.1	ADWRQEGMVLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRILDYIRKQESQKRKLDRQPYEEVSEIGHRLRMKELY.LDEL	107
NTDB id 423 SGO RS08370 WP 012130755.1	ADWRQEGMVLVLYELLKSHPNLLEDQPRLYRYFKTKFRNRILDYIRKQESQKRKLDRQPYEEVSEIGHRLRMKELY.LDEL	107
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NTDB id 582 DLJ51 RS00505 WP 002962720.1	CALKEKLKELKQKLAP	EDYAKILL	LMRGGA	FKGRSAFI	KDKV	EFEDFD	EDN...	207																																															
NTDB id 450 SPYM18 RS08475 WP 011018214.1	VAYQEV	IASLENQLNS	QERMQFKALIR	ERFKGRRAL	LRKISPY	FKEFAAQL...	183																																																
NTDB id 449 SPYM18 RS01395 WP 011018214.1	VAYQEV	IASLENQLNS	QERMQFKALIR	ERFKGRRAL	LRKISPY	FKEFAAQL...	183																																																
NTDB id 442 SPYM3 RS08515 WP 011106595.1	VAYQEV	IASLENQLNS	QERMQFKALIR	ERFKGRRAL	LRKISPY	FKEFAAQL...	183																																																
NTDB id 441 SPYM3 RS01385 WP 011106595.1	VAYQEV	IASLENQLNS	QERMQFKALIR	ERFKGRRAL	LRKISPY	FKEFAAQL...	183																																																
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	VAYQEV	IASLENQLNS	QERMQFKALIR	ERFKGRRAL	LRKISPY	FKEFAAQL...	183																																																
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	VAYQEV	IASLENQLNS	QERMQFKALIR	ERFKGRRAL	LRKISPY	FKEFAAQL...	183																																																
NTDB id 554 STRINF RS00370 WP 115283725.1	VAYQDSL	ACL	RRT	LGR	EDRLK	LEK	VI	RGER	F	E	G	K	A	F	L	K	S	I	E	L	Y	F	S	D	F	R	P		158																										
NTDB id 320 STU RS10340 WP 002949220.1	LAYDEQL	NAFREQ	LSS	EDSLK	LDRLL	GGEC	FR	GRKKM	I	R	L	F	W	M	V	D	F	D	P	C	N	E	E	D				165																											
NTDB id 47 STER RS00925 WP 002949220.1	LAYDEQL	NAFREQ	LSS	EDSLK	LDRLL	GGEC	FR	GRKKM	I	R	L	F	W	M	V	D	F	D	P	C	N	E	E	D				165																											
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	L	V	Y	D	E	Q	L	N	A	F	R	N	Q	L	S	S	E	D	A	T	K	L	D	R	L	L	G	E	C	F	R	G	R	K	K	M	I	R	L	R	F	W	M	V	D	F	D	P	Y	N	E	D	D		165
NTDB id 468 HSISS4 RS00725 WP 021143466.1	L	V	Y	D	E	Q	L	N	A	F	R	N	Q	L	S	S	E	D	A	T	K	L	D	R	L	L	G	E	C	F	R	G	R	K	K	M	I	R	L	R	F	W	M	V	D	F	D	P	Y	N	E	D	D		165
NTDB id 44 SMU RS09085 WP 002263585.1	I	L	F	R	D	S	L	L	A	Y	K	Q	G	L	S	T	E	K	Q	E	L	F	E	R	L	V	A	G	E	F	L	Q	R	S	M	L	K	D	L	R	K	K	L	S	D	F	K	E	K		160				
NTDB id 457 SSUD9 RS00080 WP 002936602.1	L	M	L	R	G	A	L	R	D	Y	R	K	N	S	N	D	Q	L	D	K	Y	E	K	L	I	S	G	C	F	N	G	R	R	E	M	I	R	D	L	Q	I	H	L	K	D	F	R		156						
NTDB id 461 GPW51 RS00080 WP 011921639.1	L	M	L	R	G	A	L	R	D	Y	R	K	N	S	N	D	Q	L	D	K	Y	E	K	L	I	S	G	C	F	N	G	R	R	E	M	I	R	D	L	Q	I	H	L	K	D	F	R		156						
NTDB id 454 SSU RS00080 WP 011921639.1	L	M	L	R	G	A	L	R	D	Y	R	K	N	S	N	D	Q	L	D	K	Y	E	K	L	I	S	G	C	F	N	G	R	R	E	M	I	R	D	L	Q	I	H	L	K	D	F	R		156						
NTDB id 252 KZH43 RS09050 WP 000588897.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 251 KZH43 RS09050 WP 000588897.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 211 SPD RS09675 WP 000588897.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 210 SPD RS00065 WP 000588897.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 177 SPR RS09210 WP 000588897.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 176 SPR RS00065 WP 000588897.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 141 SP RS10155 WP 000588925.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 140 SP RS00070 WP 000588925.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	E	K	Q	E	E	L	E	R	V	L	S	N	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	T	I	R	T	H	..	159
NTDB id 489 SM12261 RS01070 WP 000471940.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	D	K	Q	E	E	L	E	R	V	L	R	H	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	D	I	R	T	H	..	159
NTDB id 488 SM12261 RS00065 WP 000471939.1	Y	L	F	H	E	T	L	R	D	Y	R	N	K	Q	S	K	D	K	Q	E	E	L	E	R	V	L	R	H	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	D	I	R	T	H	..	159
NTDB id 517 SMSK321 RS10700 WP 000471945.1	Y	L	F	H	E	T	L	R	D	Y	R	S	K	Q	S	K	D	K	Q	E	E	L	E	R	V	L	R	H	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	D	I	R	T	Q	..	159
NTDB id 516 SMSK321 RS09125 WP 000471944.1	Y	L	F	H	E	T	L	R	D	Y	R	S	K	Q	S	K	D	K	Q	E	E	L	E	R	V	L	R	H	E	R	F	R	G	R	Q	R	V	L	R	D	L	R	I	V	F	K	E	F	D	I	R	T	R	..	159
NTDB id 121189 DK43 RS01070 WP 022525389.1	V	I	L	R	D	Q	L	K	S	Y	Q	A	Q	L	S	L	E	K	Q	E	Q	Y	E	R	L	L	A	D	E	R	F	K	G	R	Q	A	M	I	R	E	L	R	V	Y	L	K	D	Y	S	D		157			
NTDB id 424 SGO RS10430 WP 012130755.1	V	A	F	R	S	A	M	S	E	Y	R	S	R	L	S	P	E	E	A	K	Q	Y	E	R	L	M	A	D	E	R	F	K	G	R	K	A	M	L	K	D	L	S	Y	H	L	R	D	F	N	P	R	L	D	..	160
NTDB id 423 SGO RS08370 WP 012130755.1	V	A	F	R	S	A	M	S	E	Y	R	S	R	L	S	P	E	E	A	K	Q	Y	E	R	L	M	A	D	E	R	F	K	G	R	K	A	M	L	K	D	L	S	Y	H	L	R	D	F	N	P	R	L	D	..	160
consensus	***	*	*****	**	*	*	*****	***!!*	*****	*****	*****	*****																																											

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