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NTDB id 582 DLJ51 RS00505 WP 002962720.1
NTDB id 554 STRINF RS00370 WP 115283725.1
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 320 STU RS10340 WP 002949220.1
NTDB id 47 STER RS00925 WP 002949220.1
NTDB id 468 HSISS4 RS00725 WP 021143466.1
NTDB id 50 STRSA0001 RS07545 WP 002885610.1
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 321388 EJJ26 RS08550 WP 001049381.1
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

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logo

NTDB id 582	DLJ51	RS00505	WP 002962720.1	YIKLW	TYDD	DWR	QEAR	ITIL	YQL	LER	FF	PD	L	ANDEE	KLR	IYF	KT	KFR	SY	V	LD	N	IR	K	Q	E	S	Q	K	R	A	F	D	R	M	I	Y	E	E	I	S	E	I	G	H	M	I	P	S	Q	148																												
NTDB id 554	STRINF	RS00370	WP 115283725.1	FVKLW	DYED	WI	QEGRI	VFF	QL	LEE	H	PD	L	LNNEG	K	CYS	YF	K	T	K	F	S	N	H	V	K	D	I	R	H	Q	E	S	F	K	R	K	F	N	R	M	P	Y	E	E	I	S	D	I	S	H	C	V	P	Q	100																							
NTDB id 450	SPYM18	RS08475	WP 011018214.1	YIQLW	DRDD	DWL	QEGHI	IILL	QL	L	L	E	R	Y	P	E	L	IEEE	E	R	L	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	124														
NTDB id 449	SPYM18	RS01395	WP 011018214.1	YIQLW	DRDD	DWL	QEGHI	IILL	QL	L	L	E	R	Y	P	E	L	IEEE	E	R	L	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	124														
NTDB id 442	SPYM3	RS08515	WP 011106595.1	YIQLW	DRDD	DWL	QEGHI	IILL	QL	L	L	E	R	Y	P	E	L	IEEE	E	R	L	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	124														
NTDB id 441	SPYM3	RS01385	WP 011106595.1	YIQLW	DRDD	DWL	QEGHI	IILL	QL	L	L	E	R	Y	P	E	L	IEEE	E	R	L	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	124														
NTDB id 448	SpyM6JRS4	RS07800	WP 010921894.1	YIQLW	DRDD	DWL	QEGHI	IILL	QL	L	L	E	R	Y	P	E	L	IEEE	E	R	L	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	124														
NTDB id 447	SpyM6JRS4	RS01370	WP 010921894.1	YIQLW	DRDD	DWL	QEGHI	IILL	QL	L	L	E	R	Y	P	E	L	IEEE	E	R	L	Y	R	Y	F	K	T	K	F	S	S	Y	L	K	D	L	R	R	Q	E	S	Q	K	R	Q	F	H	K	L	A	Y	E	E	I	G	E	V	A	H	A	I	P	S	R	124														
NTDB id 320	STU	RS10340	WP 002949220.1	FIQLW	DQAD	ME	QEAM	MTLY	QL	L	K	K	F	P	D	L	EK	D	D	D	K	L	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	V	E	I	S	D	I	A	F	C	I	P	N	K	103												
NTDB id 47	STER	RS00925	WP 002949220.1	FIQLW	DQAD	ME	QEAM	MTLY	QL	L	K	K	F	P	D	L	EK	D	D	D	K	L	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	V	E	I	S	D	I	A	F	C	I	P	N	K	103												
NTDB id 468	HSISS4	RS00725	WP 021143466.1	FIQLW	DQAD	ME	QEAM	MTLY	QL	L	K	K	F	P	D	L	EK	D	D	D	K	L	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	V	E	I	S	D	I	A	F	C	I	P	N	K	103												
NTDB id 50	STRSA0001	RS07545	WP 002885610.1	FIQLW	DQAD	ME	QEAM	MTLY	QL	L	K	K	F	P	D	L	EK	D	D	D	K	L	R	R	Y	F	K	T	K	F	R	N	R	I	N	D	E	V	R	R	Q	E	S	V	K	R	Q	A	N	R	Q	C	Y	V	E	I	S	D	I	A	F	C	I	P	N	K	103												
NTDB id 44	SMU	RS09085	WP 002263585.1	FIKMW	TRED	WQ	QEGM	LILH	QL	L	R	E	H	P	E	L	E	E	D	T	K	L	Y	I	Y	F	K	T	F	S	N	Y	I	K	D	V	L	R	Q	E	S	Q	K	R	F	R	N	R	M	S	Y	E	E	V	G	E	I	E	H	C	L	S	S	G	102														
NTDB id 457	SSUD9	RS00080	WP 002936602.1	YIKLW	DRDD	DWE	QEGM	MTL	FEL	L	E	A	Q	P	W	L	V	D	E	Q	V	Q	L	Y	C	Y	F	K	V	K	F	R	N	R	I	K	D	R	I	R	K	Q	E	S	Q	K	R	K	F	D	R	M	P	H	E	D	I	Y	E	L	S	H	A	I	Q	S	P	100											
NTDB id 461	GPW51	RS00080	WP 011921639.1	YIKLW	DRDD	DWE	QEGM	MTL	FEL	L	E	A	Q	P	W	L	V	D	E	Q	V	Q	L	Y	C	Y	F	K	V	K	F	R	N	R	I	K	D	R	I	R	K	Q	E	S	Q	K	R	K	F	D	R	M	P	H	E	D	I	Y	E	L	S	H	A	I	Q	S	P	100											
NTDB id 454	SSU	RS00080	WP 011921639.1	YIKLW	DRDD	DWE	QEGM	MTL	FEL	L	E	A	Q	P	W	L	V	D	E	Q	V	Q	L	Y	C	Y	F	K	V	K	F	R	N	R	I	K	D	R	I	R	K	Q	E	S	Q	K	R	K	F	D	R	M	P	H	E	D	I	Y	E	L	S	H	A	I	Q	S	P	100											
NTDB id 424	SGO	RS10430	WP 012130755.1	YLHLW	EYAD	WR	QEGM	LVL	YEL	L	K	S	H	P	N	L	L	E	D	Q	P	R	L	Y	R	Y	F	K	T	K	F	R	N	R	I	H	D	L	I	R	R	Q	E	S	Q	K	R	L	D	R	Q	P	Y	E	E	V	S	E	I	G	H	R	I	R	M	K	100												
NTDB id 423	SGO	RS08370	WP 012130755.1	YLHLW	EYAD	WR	QEGM	LVL	YEL	L	K	S	H	P	N	L	L	E	D	Q	P	R	L	Y	R	Y	F	K	T	K	F	R	N	R	I	H	D	L	I	R	R	Q	E	S	Q	K	R	L	D	R	Q	P	Y	E	E	V	S	E	I	G	H	R	I	R	M	K	100												
NTDB id 331388	EJF26	RS08550	WP 001049381.1	HLHLW	EKED	WD	QEGM	LCL	YEL	V	S	H	P	E	L	L	V	G	E	R	R	L	Y	V	C	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	H	K	R	R	F	D	K	E	P	Y	E	E	V	S	E	I	S	H	R	I	G	E	K	101												
NTDB id 252	KZH43	RS09050	WP 000588897.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 251	KZH43	RS09050	WP 000588897.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 211	SPD	RS09675	WP 000588897.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 210	SPD	RS00065	WP 000588897.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 177	SPR	RS09210	WP 000588897.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 176	SPR	RS00065	WP 000588897.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 141	SP	RS10155	WP 000588925.1	YLHLW	E	L	S	D	W	E	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 140	SP	RS00070	WP 000588925.1	YLHLW	E	L	S	D	W	E	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	D	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 488	SM12261	RS00065	WP 000471939.1	HLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	G	L	V	E	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 489	SM12261	RS01070	WP 000471940.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	E	L	V	E	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	H	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	P	Y	E	E	V	G	E	I	S	H	R	I	S	E	G	99
NTDB id 517	SMSK321	RS10700	WP 000471945.1	YLHLW	E	L	S	D	W	D	Q	E	G	M	I	C	L	H	E	L	I	S	R	E	E	E	L	V	E	D	I	P	R	L	R	K	Y	F	K	T	K	F	R	N	R	I	L	D	Y	I	R	K	Q	E	S	Q	K	R	R	Y	D	K	E	A	Y	E	E	V	G	E	I	S	H	R	I	G	E	G	99
NTDB id 516	SMSK321	RS09125	WP 000471944.1	YLHLW	E	L																																																																									

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NTDB id 582 DLJ51 RS00505 WP 002962720.1	QMD.TADYCALKEKLEKELKQKLAPEDYAKILLLMRGGAFKGRSAFLKDILKVEFEDFDEDN...	207
NTDB id 554 STRINF RS00370 WP 115283725.1	FFFEVEDYVAYQDSLACLRLRTLGREDRLKLEKVIRGERFECKKAFLLKSTIELYFSDFRP.....	158
NTDB id 450 SPYM18 RS08475 WP 011018214.1	GLW.LDDYVAYQEVVIASLENQLNSQERMQFKALIRGERFKGRHALLRKISPYFKEFAQQL...	183
NTDB id 449 SPYM18 RS01395 WP 011018214.1	GLW.LDDYVAYQEVVIASLENQLNSQERMQFKALIRGERFKGRHALLRKISPYFKEFAQQL...	183
NTDB id 442 SPYM3 RS08515 WP 011106595.1	GLW.LDDYVAYQEVVIASLENQLNSQERMQFKALIRGERFKGRHALLRKISPYFKEFAQQL...	183
NTDB id 441 SPYM3 RS01385 WP 011106595.1	GLW.LDDYVAYQEVVIASLENQLNSQERMQFKALIRGERFKGRHALLRKISPYFKEFAQQL...	183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	GLW.LDDYVAYQEVVIASLENQLNSQERMQFKALIRGERFKGRHALLRKISPYFKEFAQQL...	183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	GLW.LDDYVAYQEVVIASLENQLNSQERMQFKALIRGERFKGRHALLRKISPYFKEFAQQL...	183
NTDB id 320 STU RS10340 WP 002949220.1	ELD.MVDRLAYDEQLNAFREQLSSEDSLKLDRLLGGECFGRKKMIRELRFWMVDFDPCNEED	165
NTDB id 47 STER RS00925 WP 002949220.1	ELD.MVDRLAYDEQLNAFREQLSSEDSLKLDRLLGGECFGRKKMIRELRFWMVDFDPCNEED	165
NTDB id 468 HSISS4 RS00725 WP 021143466.1	ELD.AVDRLVYDEQLNAFRNQLSSEDATKLDRLLAGECFGRKKMIRELRFWMVDFDPYNEDD	165
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	ELD.AVDRLVYDEQLNAFRNQLSSEDATKLDRLLAGECFGRKKMIRELRFWMVDFDPYNEDD	165
NTDB id 44 SMU RS09085 WP 002263585.1	GMQ.LDEYILFRDSLRLAYKQGLSTEQELFERLVAGEHFLGRQSMKDLRKKLSDFKEK....	160
NTDB id 457 SSUD9 RS00080 WP 002936602.1	GLI.NDELLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDQLIHLKDFR.....	156
NTDB id 461 GPW51 RS00080 WP 011921639.1	GLI.NDELLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDQLIHLKDFR.....	156
NTDB id 454 SSU RS00080 WP 011921639.1	GLI.NDELLMLRGALRDYRKNLSNDQLDKYEKLISGQCFNGRREMIRDQLIHLKDFR.....	156
NTDB id 424 SGO RS10430 WP 012130755.1	ELY.LDELVAFRSAMSEYRSRLSPPEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD..	160
NTDB id 423 SGO RS08370 WP 012130755.1	ELY.LDELVAFRSAMSEYRSRLSPPEAKQYERLMADERFKGRKAMLKDLSYHLRDFNPRLD..	160
NTDB id 331388 EJF26 RS08550 WP 001049381.1	GLR.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 252 KZH43 RS09050 WP 000588897.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 251 KZH43 RS09050 WP 000588897.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 211 SPD RS09675 WP 000588897.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 210 SPD RS00065 WP 000588897.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 177 SPR RS09210 WP 000588897.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 176 SPR RS00065 WP 000588897.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 141 SP RS10155 WP 000588925.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 140 SP RS00070 WP 000588925.1	GLW.LDDYVYLFHETLRDYRNKQSKQKQEEELERVLSNERFGRQVRDLRLRIVFKEFTIRTH..	159
NTDB id 488 SM12261 RS00065 WP 000471939.1	GMW.LDEYVYLFHETLRDYRNKQSKDKQEEELERVLRHERFGRQVRDLRLRIVFKEFDIRTH..	159
NTDB id 489 SM12261 RS01070 WP 000471940.1	GMW.LDEYVYLFHETLRDYRNKQSKDKQEEELERVLRHERFGRQVRDLRLRIVFKEFDIRTH..	159
NTDB id 517 SMSK321 RS10700 WP 000471945.1	GLW.LDDYVYLFHETLRDYRSKQSKDKQEEELERVLRHERFGRQVRDLRLRIVFKEFDIRTQ..	159
NTDB id 516 SMSK321 RS09125 WP 000471944.1	GLW.LDEYVYLFHETLRDYRSKQSKDKQEEELERVLRHERFGRQVRDLRLRIVFKEFDIRTQ..	159
consensus	*** ***** * ***** ** * * ***** ***! ! * * ***** ***!	

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