

NTDB id 582 DLJ51 RS00505 WP 002962720.1
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 HSIS54 RS00725 WP 021143466.1
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 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 517 SMSK321 RS10700 WP 000471945.1
NTDB id 516 SMSK321 RS09125 WP 000471944.1
NTDB id 284682 SK637 RS01200 WP 033688066.1
NTDB id 489 SM12261 RS01070 WP 000471940.1
NTDB id 488 SM12261 RS00065 WP 000471939.1
consensus

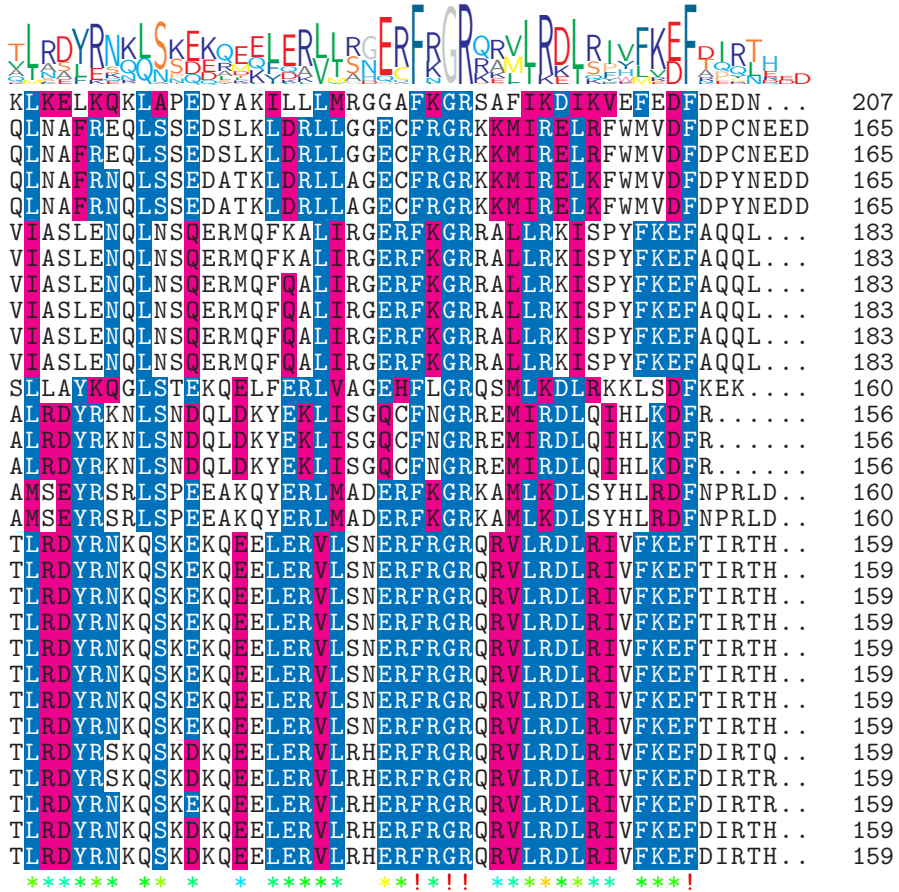
MS	CC	FE	VV	LF	IL	GI	VK	KR	RL	KMS	IE	TR	AF	FK	VP	SR	VE	KT	VS	KL	AD	YY	IK	LW	TY	DD	WR				
MDKEKLKEIFNKHSA	LP	EE	VE	EF	DD	GM	VKE	VIT	AG	LL	FC	LE	VL	DM	DD	SS	FS	VA	SR	VE	KT	VS	KL	AD	YY	IK	LW	TY	DD	WR	30
MEQE	VF	KAY	EK	VR	PI	VL	KA	FR	QY	FI	QL	WD	QA	DM																	35
MEQE	VF	KAY	EK	VR	PI	VL	KA	FR	QY	FI	QL	WD	QA	DM																	35
MEQE	VF	VHAY	EV	VR	PI	VL	KA	SR	QY	FI	QL	WD	LA	DM																	35
MEQE	VF	VHAY	EV	VR	PI	VL	KA	SR	QY	FI	QL	WD	QA	DM																	35
MSCC	FF	VV	LF	IL	GI	VK	KR	RL	KMS	IE	TR	AF	FK	VP	SR	VE	KT	VS	KL	AD	YY	IK	LW	DR	DD	WL					56
MSCC	FF	VV	LF	IL	GI	VK	KR	RL	KMS	IE	TR	AF	FK	VP	SR	VE	KT	VS	KL	AD	YY	IK	LW	DR	DD	WL					56
MSCC	FF	VV	LF	IL	GI	VK	KR	RL	KMS	IE	TR	AF	FK	VP	SR	VE	KT	VS	KL	AD	YY	IK	LW	DR	DD	WL					56
MSCC	FF	VV	LF	IL	GI	VK	KR	RL	KMS	IE	TR	AF	FK	VP	SR	VE	KT	VS	KL	AD	YY	IK	LW	DR	DD	WL					56
MSCC	FF	VV	LF	IL	GI	VK	KR	RL	KMS	IE	TR	AF	FK	VP	SR	VE	KT	VS	KL	AD	YY	IK	LW	DR	DD	WL					56
MEED	FE	IV	EN	KV	KPI	VW	KL	SR	YY	FI	KM	WT	RE	DW																	34
MEFE	KV	YAS	VK	GIV	NK	AR	KE	FY	IK	LW	DR	DD	WE																		32
MEFE	KV	YAS	VK	GIV	NK	AR	KE	FY	IK	LW	DR	DD	WE																		32
MEFE	KV	YAS	VK	GIV	NK	AR	KE	FY	IK	LW	DR	DD	WE																		32
MKFED	VY	KQ	VE	GIV	KR	CY	KD	YY	LH	LW	EY	AD	WR																	32	
MKFED	VY	KQ	VE	GIV	KR	CY	KD	YY	LH	LW	EY	AD	WR																		32
MIKEL	YEE	VQ	GT	VY	KR	NE	YY	LH	LW	EL	SD	WD																		31	
MIKEL	YEE	VQ	GT	VY	KR	NE	YY	LH	LW	EL	SD	WD																			31
MIKEL	YEE	VQ	GT	VY	KR	NE	YY	LH	LW	EL	SD	WD																			

logo

NTDB id 582 DLJ51 RS00505 WP 002962720.1	QEARITILYQLLERFFDLANDEEKLRIFYFKTKFRSYLDNIRKQESQKRAFDPMIYEEISEIGHMIPSQQMDTADYCALKE	160
NTDB id 320 STU RS10340 WP 002949220.1	QEAMMTLYQLLKKFPDLKDDDDKLRIFYFKTKFRNRINDEVRRQESVVKRQANRQCQYVEISDIAFCIPNKEIDMVDRLAYDE	115
NTDB id 47 STER RS00925 WP 002949220.1	QEAMMTLYQLLKKFPDLKDDDDKLRIFYFKTKFRNRINDEVRRQESVVKRQANRQCQYVEISDIAFCIPNKEIDMVDRLAYDE	115
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	QEAMMTLYQLLEKFPPELKSDDDKLRIFYFKTKFRNRINDEVRRQESVVKRQANRQCQYIEISDIAFCIPNKEIDAVDRLVYDE	115
NTDB id 468 HSISS4 RS00725 WP 021143466.1	QEAMMTLYQLLEKFPPELKSDDDKLRIFYFKTKFRNRINDEVRRQESVVKRQANRQCQYIEISDIAFCIPNKEIDAVDRLVYDE	115
NTDB id 450 SPYM18 RS08475 WP 011018214.1	QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQE	136
NTDB id 449 SPYM18 RS01395 WP 011018214.1	QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQE	136
NTDB id 442 SPYM3 RS08515 WP 011106595.1	QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQE	136
NTDB id 441 SPYM3 RS01385 WP 011106595.1	QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQE	136
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQE	136
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	QEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYVAYQE	136
NTDB id 44 SMU RS09085 WP 002263585.1	QEGMILHLQLLREHPELEEDDTKLYIFYFKTRFSNYIKDVLRQESQKRQFNRMSYEEVGEIEHCISSGCMQLDEYILFRD	114
NTDB id 457 SSUD9 RS00080 WP 002936602.1	QEGMMTLFELEEAQPWLVDQVQLYCYFYKVKFRNRIRKDRIRKQESQKRKFDRMPHEDIHELISHATQSPGLINDELLMLRG	112
NTDB id 461 GPW51 RS00080 WP 011921639.1	QEGMMTLFELEEAQPWLVDQVQLYCYFYKVKFRNRIRKDRIRKQESQKRKFDRMPHEDIYELISHATQSPGLINDELLMLRG	112
NTDB id 454 SSU RS00080 WP 011921639.1	QEGMMTLFELEEAQPWLVDQVQLYCYFYKVKFRNRIRKDRIRKQESQKRKFDRMPHEDIYELISHATQSPGLINDELLMLRG	112
NTDB id 424 SGO RS10430 WP 012130755.1	QEGMLVLYELLKSHPNLLEDQPRLRYFYFKTKFRNRILDYIRKQESQKRKLDQRPYEEVSEIGHRIIRMKELYLDELVAFRS	112
NTDB id 423 SGO RS08370 WP 012130755.1	QEGMLVLYELLKSHPNLLEDQPRLRYFYFKTKFRNRILDYIRKQESQKRKLDQRPYEEVSEIGHRIIRMKELYLDELVAFRS	112
NTDB id 252 KZH43 RS09050 WP 000588897.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 251 KZH43 RS09050 WP 000588897.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 211 SPD RS09675 WP 000588897.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 210 SPD RS00065 WP 000588897.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 177 SPR RS09210 WP 000588897.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 176 SPR RS00065 WP 000588897.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 141 SP RS10155 WP 000588925.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 140 SP RS00070 WP 000588925.1	QEGMCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 517 SMSK321 RS10700 WP 000471945.1	QEGMICLHELISREEELVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEAYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 516 SMSK321 RS09125 WP 000471944.1	QEGMICLHELISKEEELAEIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKESYEEVGEISHRISEGGLWLDEYVYLFHE	111
NTDB id 284682 SK637 RS01200 WP 033688066.1	QEGMICLHELISREEELVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDDYVYLFHE	111
NTDB id 489 SM12261 RS01070 WP 000471940.1	QEGMICLHELISREEELVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDEYVYLFHE	111
NTDB id 488 SM12261 RS00065 WP 000471939.1	QEGMICLHELISREEGLVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRKYDKEPYEEVGEISHRISEGGLWLDEYVYLFHE	111
consensus	!!***! *!* * * **** *!***!!**!*****! *!*!!!!!!***** ***** * * ***** * * *	

logo

NTDB id 582 DLJ51 RS00505 WP 002962720.1
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 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 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 517 SMSK321 RS10700 WP 000471945.1
NTDB id 516 SMSK321 RS09125 WP 000471944.1
NTDB id 284682 SK637 RS01200 WP 033688066.1
NTDB id 489 SM12261 RS01070 WP 000471940.1
NTDB id 488 SM12261 RS00065 WP 000471939.1
consensus



☒ non conserved
☒ similar
☒ ≥50% conserved