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NTDB id 457 SSUD9 RS00080 WP 002936602.1	MEFEK	YAS	VKG	IVN	KAR	KEF	Y	I	K	L	W	D	R	28
NTDB id 461 GPW51 RS00080 WP 011921639.1	MEFEK	YAS	VKG	IVN	KAR	KEF	Y	I	K	L	W	D	R	28
NTDB id 454 SSU RS00080 WP 011921639.1	MEFEK	YAS	VKG	IVN	KAR	KEF	Y	I	K	L	W	D	R	28
NTDB id 44 SMU RS09085 WP 002263585.1	MEEDF	EIV	ENK	VKP	I	VW	KL	S	Y	F	I	K	M	30
NTDB id 141 SP RS10155 WP 000588925.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 140 SP RS00070 WP 000588925.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 252 KZH43 RS09050 WP 000588897.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 251 KZH43 RS09050 WP 000588897.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 211 SPD RS09675 WP 000588897.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 210 SPD RS00065 WP 000588897.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 177 SPR RS09210 WP 000588897.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 176 SPR RS00065 WP 000588897.1	MIKEL	YEEV	QGT	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 489 SM12261 RS01070 WP 000471940.1	MFKE	LYEEV	QGI	VYK	CR	NEY	Y	L	H	L	W	E	L	27
NTDB id 516 SMSK321 RS09125 WP 000471944.1	MFKE	LYKEV	QGI	VYK	SR	NEY	Y	L	H	L	W	E	L	27
NTDB id 517 SMSK321 RS10700 WP 000471945.1	MFKE	LYKEV	QGI	VYK	SR	NEY	Y	L	H	L	W	E	L	27
NTDB id 320 STU RS10340 WP 002949220.1	MEQEV	FVK	AYE	KVR	P	I	V	L	K	A	F	R	Q	31
NTDB id 47 STER RS00925 WP 002949220.1	MEQEV	FVK	AYE	KVR	P	I	V	L	K	A	F	R	Q	31
NTDB id 468 HSISS4 RS00725 WP 021143466.1	MEQEV	FVH	AYE	VVR	P	I	V	L	K	A	S	R	Q	31
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	MEQEV	FVH	AYE	VVR	P	I	V	L	K	A	S	R	Q	31
NTDB id 582 DLJ51 RS00505 WP 002962720.1	MDKEK	LKEI	F	NK	H	S	A	L	P	E	E	V	E	76
NTDB id 554 STRINF RS00370 WP 115283725.1	MDFER	Y	F	Q	T	V	K	P	I	L	K	L	R	28
NTDB id 1140152 DQM95 RS02315 WP 012657889.1	MFNHD	F	E	N	C	F	E	Q	V	L	P	I	L	31
NTDB id 450 SPYM18 RS08475 WP 011018214.1	MS..	CCFFV	V	L	F	I	L	G	I	V	K	K	R	52
NTDB id 449 SPYM18 RS01395 WP 011018214.1	MS..	CCFFV	V	L	F	I	L	G	I	V	K	K	R	52
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	MS..	CCFFV	V	L	F	I	L	G	I	V	K	K	R	52
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	MS..	CCFFV	V	L	F	I	L	G	I	V	K	K	R	52
NTDB id 442 SPYM3 RS08515 WP 011106595.1	MS..	CCFFV	V	L	F	I	L	G	I	V	K	K	R	52
NTDB id 441 SPYM3 RS01385 WP 011106595.1	MS..	CCFFV	V	L	F	I	L	G	I	V	K	K	R	52
consensus														

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NTDB id 457 SSUD9 RS00080 WP 002936602.1	DDWEQEGMNTLFEELIEAQPWLVDDEQVQLYCYFKVKFRNRITKDRIRKQESQKRKFDRMPHEDIHEISHATQSPGL.INDEL	107
NTDB id 461 GPW51 RS00080 WP 011921639.1	DDWEQEGMNTLFEELIEAQPWLVDDEQVQLYCYFKVKFRNRITKDRIRKQESQKRKFDRMPHEDIYELSHATQSPGL.INDEL	107
NTDB id 454 SSU RS00080 WP 011921639.1	DDWEQEGMNTLFEELIEAQPWLVDDEQVQLYCYFKVKFRNRITKDRIRKQESQKRKFDRMPHEDIYELSHATQSPGL.INDEL	107
NTDB id 44 SMU RS09085 WP 002263585.1	EDWQQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	109
NTDB id 141 SP RS10155 WP 000588925.1	SDWEQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 140 SP RS00070 WP 000588925.1	SDWEQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 252 KZH43 RS09050 WP 000588897.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 251 KZH43 RS09050 WP 000588897.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 211 SPD RS09675 WP 000588897.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 210 SPD RS00065 WP 000588897.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 177 SPR RS09210 WP 000588897.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 176 SPR RS00065 WP 000588897.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 489 SM12261 RS01070 WP 000471940.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 516 SMSK321 RS09125 WP 000471944.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 517 SMSK321 RS10700 WP 000471945.1	SDWDQEGMNTLHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	106
NTDB id 320 STU RS10340 WP 002949220.1	ADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRINDEVRRQESVQRQANRQCQYVEISDIAFCIPNKEL.DMVD	110
NTDB id 47 STER RS00925 WP 002949220.1	ADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRINDEVRRQESVQRQANRQCQYVEISDIAFCIPNKEL.DMVD	110
NTDB id 468 HSISS4 RS00725 WP 021143466.1	ADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRINDEVRRQESVQRQANRQCQYVEISDIAFCIPNKEL.DAVDR	110
NTDB id 50 STRSA0001 RS07545 WP 002885610.1	ADMEQEAMMTLYQLLKKFPDLEKDDDKLRRYFKTKFRNRINDEVRRQESVQRQANRQCQYVEISDIAFCIPNKEL.DAVDR	110
NTDB id 582 DLJ51 RS00505 WP 002962720.1	DDWRQEARTILLYQLLERFPDLANDEEKLRIYFKTKFRSYVLDNRIRKQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	155
NTDB id 554 STRINF RS00370 WP 115283725.1	EDWIQEGRIVFFQLLEEHPDLINNEGKCYSYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	108
NTDB id 1140152 DQM95 RS02315 WP 012657889.1	DDWLQEGRIILHLLMEDNPDADNRMKLLCYFKTKFTSHIKDTRLRYQESAKRRFNRRLPYDEIGDVSHKTAEDGL.KLDDI	110
NTDB id 450 SPYM18 RS08475 WP 011018214.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	131
NTDB id 449 SPYM18 RS01395 WP 011018214.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	131
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	131
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	131
NTDB id 442 SPYM3 RS08515 WP 011106595.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	131
NTDB id 441 SPYM3 RS01385 WP 011106595.1	DDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSSYLKDLLRRQESQKRKFDRMSYEEVGEIEHCSSGGMQLDEY	131
consensus	!***!*** * !* * *!* **** * * !*!!*!* **** ! *!*!!*!!** * ***** * * ** *****	

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NTDB id 457 SSUD9 RS00080 WP 002936602.1	LMLRGA	LRDY	RKLN	LSND	QLDKY	EKLISG	CFNG	RREM	IRDL	QIHL	KD	FR		156																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 461 GPW51 RS00080 WP 011921639.1	LMLRGA	LRDY	RKLN	LSND	QLDKY	EKLISG	CFNG	RREM	IRDL	QIHL	KD	FR		156																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 454 SSU RS00080 WP 011921639.1	LMLRGA	LRDY	RKLN	LSND	QLDKY	EKLISG	CFNG	RREM	IRDL	QIHL	KD	FR		156																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 44 SMU RS09085 WP 002263585.1	ILFR	DS	LLAY	KQGL	ST	EK	QELF	ER	L	VAG	E	H	FLGR	Q	S	M	L	K	D	L	R	K	K	L	S	D	F	K	E	K	...	160																																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB id 141 SP RS10155 WP 000588925.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 140 SP RS00070 WP 000588925.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 252 KZH43 RS09050 WP 000588897.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 251 KZH43 RS09050 WP 000588897.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 211 SPD RS09675 WP 000588897.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 210 SPD RS00065 WP 000588897.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 177 SPR RS09210 WP 000588897.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 176 SPR RS00065 WP 000588897.1	YLFHET	LRD	YRNKQ	SKEK	QEEL	ERVLSN	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	T	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 489 SM12261 RS01070 WP 000471940.1	YLFHET	LRD	YRNKQ	SKDK	QEEL	ERVLRH	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	D	I	R	T	H	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 516 SMSK321 RS09125 WP 000471944.1	YLFHET	LRD	YRSKQ	SKDK	QEEL	ERVLRH	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	D	I	R	T	R	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 517 SMSK321 RS10700 WP 000471945.1	YLFHET	LRD	YRSKQ	SKDK	QEEL	ERVLRH	ERFR	G	R	Q	R	V	LRDL	R	I	V	F	K	E	F	D	I	R	T	Q	..	159																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 320 STU RS10340 WP 002949220.1	LAYDEQ	LNA	FREQ	LSS	EDSL	KLDRL	LGGE	CFR	G	R	K	K	M	I	R	E	L	R	F	W	M	V	D	F	D	P	C	N	E	E	D	165																																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB id 47 STER RS00925 WP 002949220.1	LAYDEQ	LNA	FREQ	LSS	EDSL	KLDRL	LGGE	CFR	G	R	K	K	M	I	R	E	L	R	F	W	M	V	D	F	D	P	C	N	E	E	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	A	G	E	C	F	R	G	R	K	K	M	I	R	E	L	K	F	W	M	V	D	F	D	P	Y	N	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	A	G	E	C	F	R	G	R	K	K	M	I	R	E	L	K	F	W	M	V	D	F	D	P	Y	N	E	D	165																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 582 DLJ51 RS00505 WP 002962720.1	CALKEK	LKEL	KQK	LAP	EDYAK	ILL	LM	R	G	G	A	F	K	G	R	S	A	F	I	K	D	I	K	V	E	F	E	D	F	D	E	D	N	...	207																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB id 554 STRINF RS00370 WP 115283725.1	VAYQ	D	S	L	A	C	L	R	T	L	G	R	E	D	R	L	K	L	E	K	V	I	R	G	E	R	F	E	C	K	A	F	L	K	S	I	E	L	Y	F	S	D	F	R	P		158																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1140152 DQM95 RS02315 WP 012657889.1	VAFHTI	L	N	H	L	T	P	K	L	S	E	N	E	M	N	Q	I	Q	A	L	F	S	N	K	R	F	S	G	R	K	K	L	R	K	L	P	F	F	V	D	F	Q	D	N	L...	162																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 450 SPYM18 RS08475 WP 011018214.1	VAYQ	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	R	F	K	G	R	R	A	L	L	R	K	I	S	P	Y	F	K	E	F	A	Q	Q	L...	183																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 449 SPYM18 RS01395 WP 011018214.1	VAYQ	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	K	A	L	I	R	G	E	R	F	K	G	R	R	A	L	L	R	K	I	S	P	Y	F	K	E	F	A	Q	Q	L...	183																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	VAYQ	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	Q	A	L	I	R	G	E	R	F	K	G	R	R	A	L	L	R	K	I	S	P	Y	F	K	E	F	A	Q	Q	L...	183																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	VAYQ	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	Q	A	L	I	R	G	E	R	F	K	G	R	R	A	L	L	R	K	I	S	P	Y	F	K	E	F	A	Q	Q	L...	183																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 442 SPYM3 RS08515 WP 011106595.1	VAYQ	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	Q	A	L	I	R	G	E	R	F	K	G	R	R	A	L	L	R	K	I	S	P	Y	F	K	E	F	A	Q	Q	L...	183																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB id 441 SPYM3 RS01385 WP 011106595.1	VAYQ	E	V	I	A	S	L	E	N	Q	L	N	S	Q	E	R	M	Q	F	Q	A	L	I	R	G	E	R	F	K	G	R	R	A	L	L	R	K	I	S	P	Y	F	K	E	F	A	Q	Q	L...	183																																																																																																																																																																																																																																																																																																																																																																																																							
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 non conserved
 similar
 ≥ 50% conserved