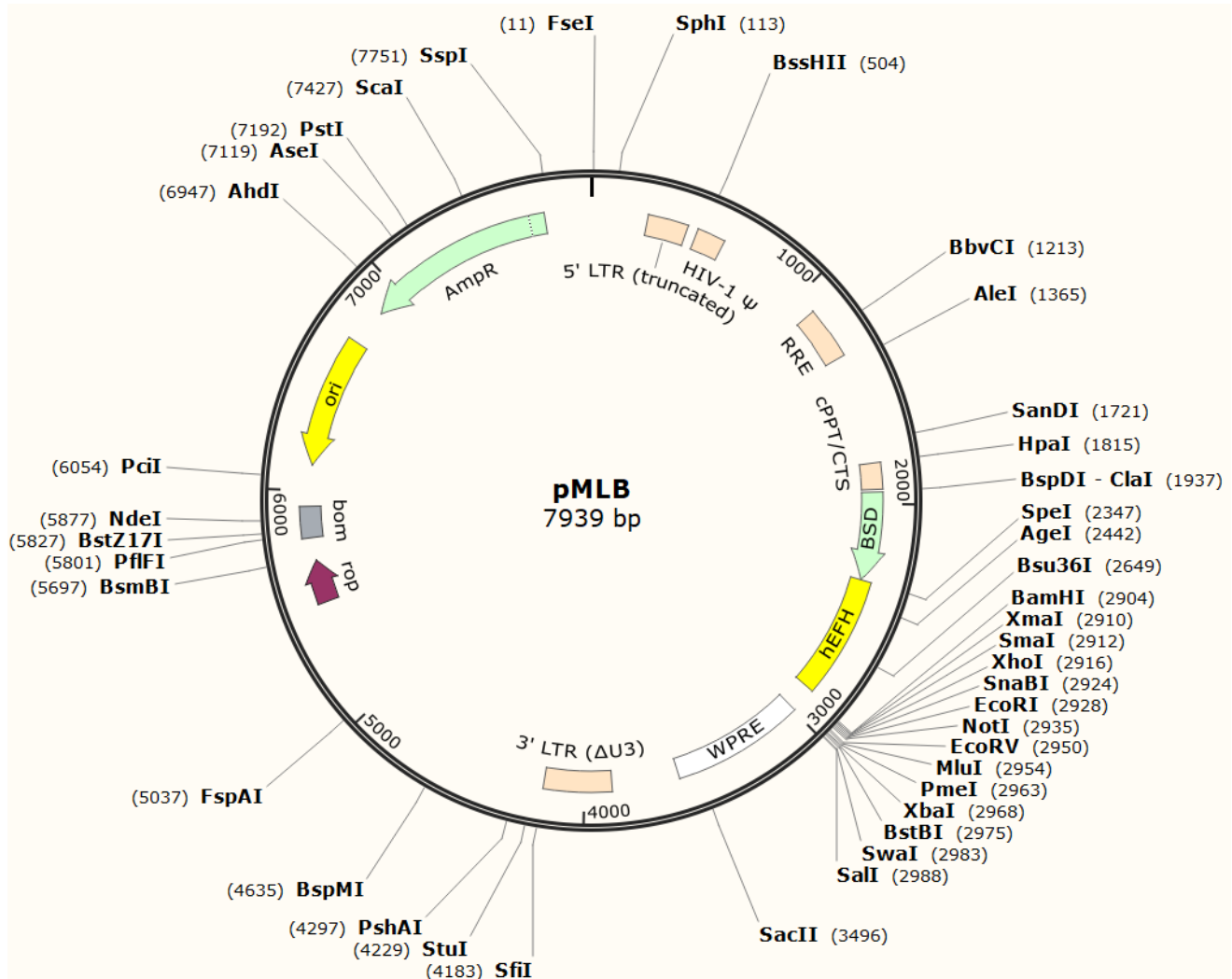


Vector: pMLB (MOLab optimized Lentiviral Vector w/ a super linker; BSD resistance, 3rd generation)

Antibiotic Selection: Amp

Creator(s): Xiaojuan Ji, Molecular Oncology Laboratory, The University of Chicago Medical Center

Date of Construction: January 6, 2018



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Zero Cutters

#	Enzyme	Specificity			
1	Acc65I	G GTAC \blacktriangle C	13	DraIII	CAC \blacktriangle NNN GTG
2	ApaI	G \blacktriangle GGCC C	14	KpnI	G \blacktriangle GTAC C
3	AscI	GG CGCG \blacktriangle CC	15	NsiI	A \blacktriangle TGCA T
4	AsiSI	GCG \blacktriangle AT CGC	16	PacI	TTA \blacktriangle AT TAA
5	AvrII	C CTAG \blacktriangle G	17	PmlI	CAC \blacktriangle GTG
6	BclI	T GATC \blacktriangle A	18	PspOMI	G GGCC \blacktriangle C
7	BlpI	GC TNA \blacktriangle GC	19	RsrII	CG GWC \blacktriangle CG
8	BmgBI	CAC \blacktriangle GTC	20	SbfI	CC \blacktriangle TGCA GG
9	BsiWI	C GTAC \blacktriangle G	21	SexAI	A CCWGG \blacktriangle T
10	BsrGI	T GTAC \blacktriangle A	22	SgrAI	CR CCGG \blacktriangle YG
11	BstEII	G GTNAC \blacktriangle C	23	SrfI	GCCC \blacktriangle GGGC
12	BstXI	CCAN \blacktriangle NNNN NTGG	24	XcmI	CCANNNN \blacktriangle N NNNNTGG

One/Single-Cutters

#	Enzyme	Specificity	Cut positions (blunt - 5' ext. - 3' ext.)
1	AgeI	A CCGG Δ T	*2442/2446
2	AhdI	GACNN Δ N NNGTC	6947/6946
3	AleI	CACNN Δ NNGTG	1365
4	AseI	AT TA Δ AT	7119/7121
5	BaeI	Δ (N) ₅ (N) ₁₀ ACNNNNGT Δ AYC(N) ₇ Δ (N) ₅	126/121+159/154
6	BamHI	G GATC Δ C	2904/2908
7	BbvCI	CC TCA Δ GC	1213/1216
8	BfuAI	ACCTGCNNNN NNNN Δ	4635/4639
9	BsaXI	Δ NNN (N) ₉ AC(N) ₅ CTC C(N) ₇ Δ NNN	1605/1602+1635/1632
10	BsmBI	CGTCTCN NNNN Δ	*5697/5701
11	BspDI	AT Δ CG Δ AT	*1937/1939
12	BspEI	T CCGG Δ A	*#5245/5249
13	BspMI	ACCTGCNNNN NNNN Δ	4635/4639
14	BssHII	G CGCG Δ C	*504/508
15	BstBI	TT Δ CG Δ AA	*2975/2977
16	BstZ17I	GTA Δ TAC	5827
17	Bsu36I	CC TNA Δ GG	2649/2652
18	ClaI	AT Δ CG Δ AT	*1937/1939
19	EcoRI	G AATT Δ C	*2928/2932
20	EcoRV	GAT Δ ATC	2950
21	FseI	GG Δ CCGG Δ CC	*11/7
22	HpaI	GTT Δ AAC	1815
23	MluI	A Δ CGCG Δ T	*2954/2958

24	NdeI	CA TA Δ TG	5877/5879
25	NotI	GC GGCC Δ GC	*2935/2939
26	PaeR7I	C TCGA Δ G	*2916/2920
27	PciI	A CATG Δ T	6054/6058
28	PflFI	GACN N Δ NGTC	5801/5802
29	PmeI	GTTT Δ AAAC	2963
30	PshAI	GACNN Δ NNGTC	*4297
31	PspXI	VC TCGA Δ GB	*2916/2920
32	PstI	C Δ TGCA Δ G	7192/7188
33	SacII	CC Δ GC GG	*3496/3494
34	SalI	G TCGA Δ C	*2988/2992
35	ScaI	AGT Δ ACT	7427
36	SfiI	GGCCN Δ NNN NGGCC	*4183/4180
37	SmaI	CCC Δ GGG	*2912
38	SnaBI	TAC Δ GTA	*2924
39	SpeI	A CTAG Δ T	2347/2351
40	SphI	G Δ CATG Δ C	113/109
41	SspI	AAT Δ ATT	7751
42	StuI	AGG Δ CCT	4229
43	SwaI	ATTT Δ AAAT	2983
44	TspMI	C CCGG Δ G	*2910/2914
45	Tth111I	GACN N Δ NGTC	5801/5802
46	XbaI	T CTAG Δ A	2968/2972
47	XhoI	C TCGA Δ G	*2916/2920
48	XmaI	C CCGG Δ G	*2910/2914