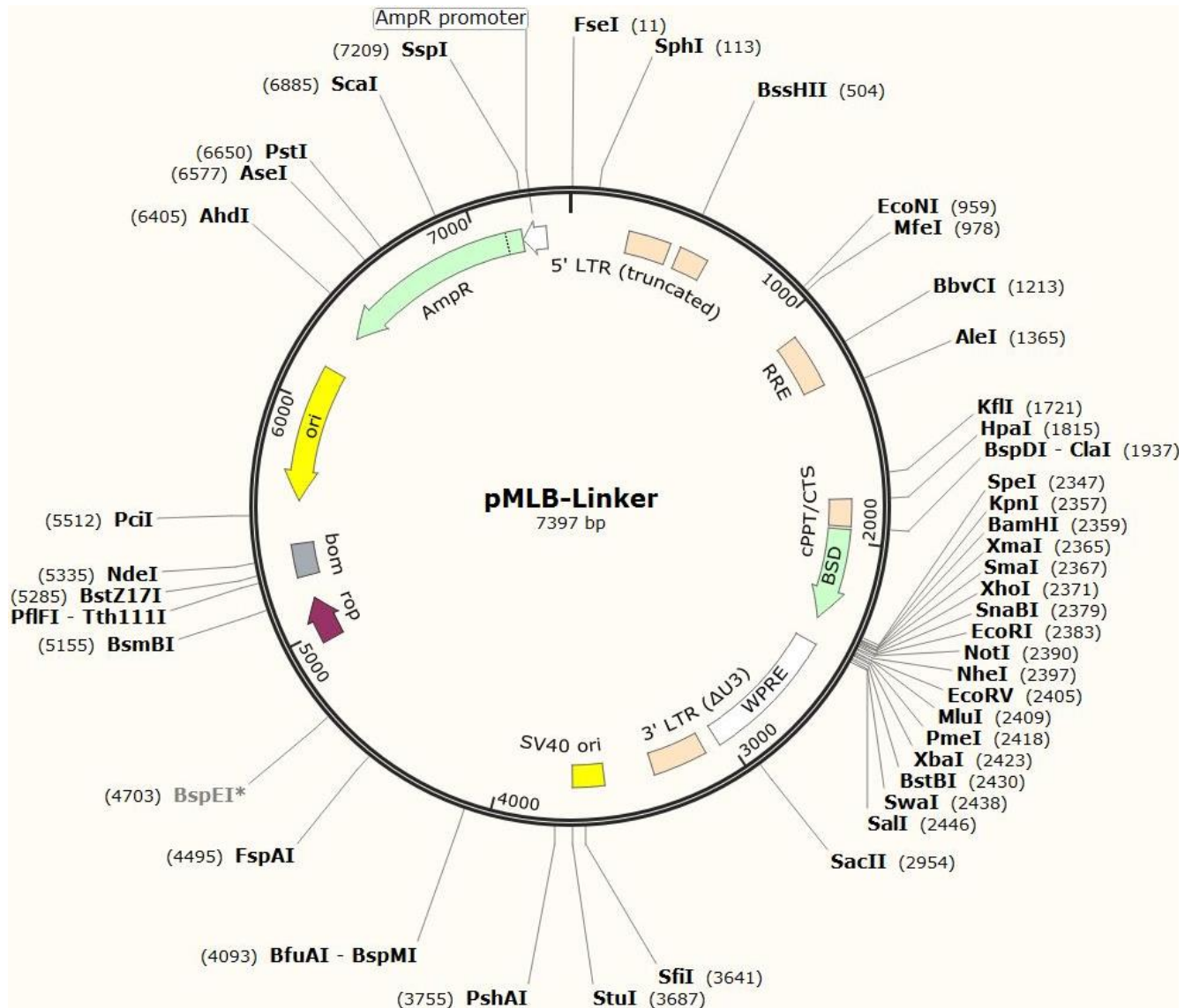


Vector: pMLB-Linker (MOLab optimized Lentiviral Vector w/ a super linker; BSD resistance, 3rd generation)

Antibiotic Selection: Amp

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

Date of Construction: updated @ December 27, 2017



pMLB-Linker Full-Length Sequence

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Zero Cutters

#	Enzyme	Specificity
1	AgeI	A CCGG▲T
2	ApaI	G▲GGCC C
3	AscI	GG CGCG▲CC
4	AsiSI	GCG▲AT CGC
5	AvrII	C CTAG▲G
6	BclI	T GATC▲A
7	BlpI	GC TNA▲GC
8	BmgBI	CAC▲GTC
9	BsiWI	C GTAC▲G
10	BsrGI	T GTAC▲A
11	BstEII	G GTNAC▲C
12	BstXI	CCAN▲NNNN NTGG
13	Bsu36I	CC TNA▲GG
14	DraIII	CAC▲NNN GTG
15	NsiI	A▲TGCA T
16	PacI	TTA▲AT TAA
17	PmlI	CAC▲GTG
18	PspOMI	G GGCC▲C
19	RsrII	CG GWC▲CG
20	SbfI	CC▲TGCA GG
21	SexAI	A CCWGG▲T
22	SgrAI	CR CCGG▲YG
23	SrfI	GCCC▲GGGC
24	XcmI	CCANNNN▲N NNNNTGG

One/Single-Cutters

#	Enzyme	Specificity	Cut positions (blunt - 5' ext. - 3' ext.)
1	Acc65I	G GTAC▲C	*2353/2357
2	AhdI	GACNN▲N NNGTC	6405/6404
3	AleI	CACNN▲NNGTG	1365
4	AseI	AT TA▲AT	6577/6579
5	BaeI	▲(N) ₅	126/121+159/154

#	Enzyme	Specificity	Cut positions
6	BamHI	G GATC▲C	2359/2363
7	BbvCI	CC TCA▲GC	1213/1216
8	BfuAI	ACCTGCNNNN NNNN▲	4093/4097
9	BmtI	G▲CTAG C	2401/2397
10	BsaXI	▲NNN (N) ₉ AC (N) ₅ CTCC (N) ₇	1605/1602+1635/1632

		▲NNN	
11	BsmBI	CGTCTCN NNNN▲	*5155/5159
12	BspDI	AT CG▲AT	*1937/1939
13	BspEI	T CCGG▲A	*#4703/4707
14	BspMI	ACCTGCNNNN NNNN▲	4093/4097
15	BssHII	G CGCG▲C	*504/508
16	BstBI	TT CG▲AA	*2430/2432
17	BstZ17I	GTA▲TAC	5285
18	ClaI	AT CG▲AT	*1937/1939
19	CspCI	▲NN (N) ₁₁ CAA(N) ₅ GTGG(N)) ₁₀ ▲NN	1965/1963+2000/1998
20	EcoNI	CCTNN N▲NNAGG	959/960
21	EcoRI	G AATT▲C	*2383/2387
22	EcoRV	GAT▲ATC	2405
23	FseI	GG▲CCGG CC	*11/7
24	HpaI	GTT▲AAC	1815
25	KpnI	G▲GTAC C	2357/2353
26	MfeI	C AATT▲G	978/982
27	MluI	A CGCG▲T	*2409/2413
28	NdeI	CA TA▲TG	5335/5337
29	NheI	G CTAG▲C	*2397/2401
30	NotI	GC GGCC▲GC	*2390/2394
31	Paer7I	C TCGA▲G	*2371/2375
32	PciI	A CATG▲T	5512/5516

33	PflFI	GACN N▲NGTC	5259/5260
34	PmeI	GTTT▲AAAC	2418
35	PshAI	GACNN▲NGTC	*3755
36	PspXI	VC TCGA▲GB	*2371/2375
37	PstI	C▲TGCA G	6650/6646
38	SacII	CC▲GC GG	*2954/2952
39	SalI	G TCGA▲C	*2446/2450
40	ScaI	AGT▲ACT	6885
41	SfiI	GGCCN▲NNN NGGCC	*3641/3638
42	SmaI	CCC▲GGG	*2367
43	SnaBI	TAC▲GTA	*2379
44	SpeI	A CTAG▲T	2347/2351
45	SphI	G▲CATG C	113/109
46	SspI	AAT▲ATT	7209
47	StuI	AGG▲CCT	3687
48	SwaI	ATTT▲AAAT	2438
49	TspMI	C CCGG▲G	*2365/2369
50	Tth111I	GACN N▲NGTC	5259/5260
51	XbaI	T CTAG▲A	2423/2427
52	XhoI	C TCGA▲G	*2371/2375
53	XmaI	C CCGG▲G	*2365/2369