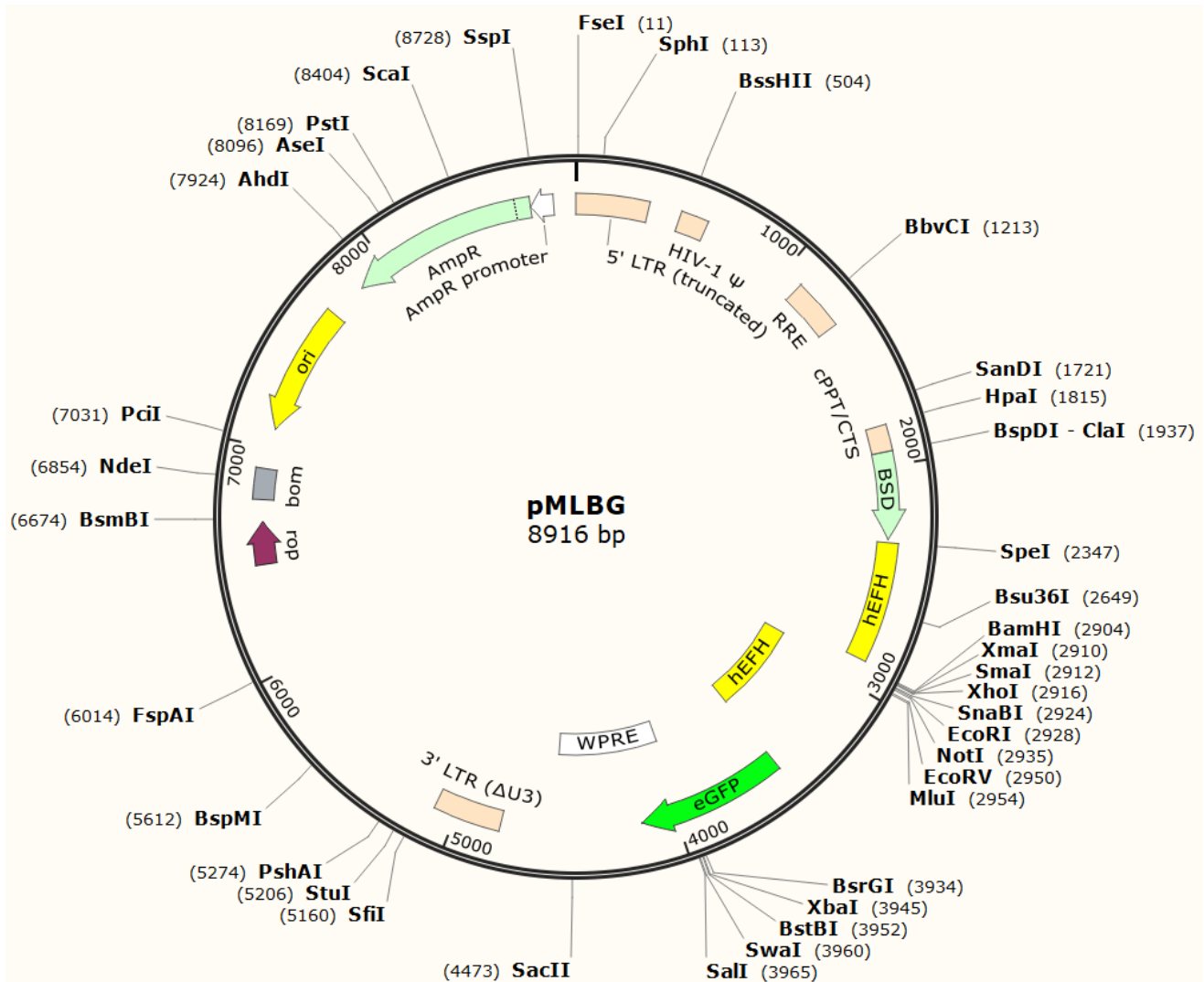


**Vector:** pMLBG (MOLab optimized Lentiviral Vector w/ a super linker; BSD resistance; co-expressing eGFP; 3rd generation)

**Antibiotic Selection:** Amp

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

**Date of Construction:** May 8, 2018



## pMLBG full-length Sequence

GAATTgcccggccaactacCGCGTGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATG  
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## Zero Cutters

#	Enzyme	Specificity
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1	<a href="#">Acc65I</a>	G <sup>v</sup> GTAC <sub>3</sub> C
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2	<a href="#">ApaI</a>	G <sub>↓</sub> GGCC <sub>↑</sub> C
3	<a href="#">AseI</a>	GG <sub>↓</sub> CGCG <sub>↑</sub> CC
4	<a href="#">AseI</a>	GCG <sub>↓</sub> AT <sub>↑</sub> CGC
5	<a href="#">AveI</a>	C <sub>↓</sub> CTAG <sub>↑</sub> G
6	<a href="#">BclI</a>	T <sub>↓</sub> GATC <sub>↑</sub> A
7	<a href="#">BlnI</a>	GC <sub>↓</sub> TNA <sub>↑</sub> GC
8	<a href="#">BmgBI</a>	CAC <sub>↓</sub> GTC
9	<a href="#">BsiWI</a>	C <sub>↓</sub> GTAC <sub>↑</sub> G
10	<a href="#">BstEII</a>	G <sub>↓</sub> GTNAC <sub>↑</sub> C
11	<a href="#">BstXI</a>	CCAN <sub>↓</sub> NNNN <sub>↑</sub> NTGG
12	<a href="#">DraIII</a>	CAC <sub>↓</sub> NNN <sub>↑</sub> GTG
13	<a href="#">KpnI</a>	G <sub>↓</sub> GTAC <sub>↑</sub> C

14	<a href="#">NsiI</a>	A <sub>↓</sub> TGCA <sub>↑</sub> T
15	<a href="#">PacI</a>	TTA <sub>↓</sub> AT <sub>↑</sub> TAA
16	<a href="#">PmeI</a>	GTTT <sub>↓</sub> AAAC
17	<a href="#">PmlI</a>	CAC <sub>↓</sub> GTG
18	<a href="#">PspOMI</a>	G <sub>↓</sub> GGCC <sub>↑</sub> C
19	<a href="#">RsrII</a>	CG <sub>↓</sub> GWC <sub>↑</sub> CG
20	<a href="#">SbfI</a>	CC <sub>↓</sub> TGCA <sub>↑</sub> GG
21	<a href="#">SexAI</a>	A <sub>↓</sub> CCWGG <sub>↑</sub> T
22	<a href="#">SgrAI</a>	CR <sub>↓</sub> CCGG <sub>↑</sub> YG
23	<a href="#">SrfI</a>	GCCC <sub>↓</sub> GGGC
24	<a href="#">XcmI</a>	CCANNNN <sub>↓</sub> N <sub>↑</sub> NNNNTGG

### One/Single-Cutters

#	Enzyme	Specificity	Cut positions (blunt - 5' ext. - 3' ext.)
1	<a href="#">AhdI</a>	GACNN <sub>↓</sub> N <sub>↑</sub> NNGTC	<a href="#">7924/7923</a>
2	<a href="#">AseI</a>	AT <sub>↓</sub> TA <sub>↑</sub> AT	<a href="#">8096/8098</a>
3	<a href="#">BaeI</a>	<sub>↓</sub> (N) <sub>5</sub> (N) <sub>10</sub> ACNNNG TAYC(N) <sub>7</sub> <sub>↓</sub> (N) <sub>5</sub> <sub>↑</sub>	<a href="#">126/121+159/ 154</a>
4	<a href="#">BamHI</a>	G <sub>↓</sub> GATC <sub>↑</sub> C	<a href="#">2904/2908</a>
5	<a href="#">BbvCI</a>	CC <sub>↓</sub> TCA <sub>↑</sub> GC	<a href="#">1213/1216</a>
6	<a href="#">BfuAI</a>	ACCTGCNNNN <sub>↓</sub> NNNN <sub>↑</sub>	<a href="#">5612/5616</a>
7	<a href="#">BsaXI</a>	<sub>↓</sub> NNN <sub>↑</sub> (N) <sub>9</sub> AC(N) <sub>5</sub> CTC C(N) <sub>7</sub> <sub>↓</sub> NNN <sub>↑</sub>	<a href="#">1605/1602+1 635/1632</a>
8	<a href="#">BsmBI</a>	CGTCTCN <sub>↓</sub> NNNN <sub>↑</sub>	<a href="#">*6674/6678</a>
9	<a href="#">BspDI</a>	AT <sub>↓</sub> CG <sub>↑</sub> AT	<a href="#">*1937/1939</a>
1	<a href="#">Bsp</a>	T <sub>↓</sub> CCGG <sub>↑</sub> A	<a href="#">*#6222/6226</a>

0	<a href="#">Ei</a>		
1	<a href="#">BspMI</a>	ACCTGCNNNN <sub>↓</sub> NNNN <sub>↑</sub>	<a href="#">5612/5616</a>
1	<a href="#">BsrGI</a>	T <sub>↓</sub> GATC <sub>↑</sub> A	<a href="#">3934/3938</a>
1	<a href="#">BssHII</a>	G <sub>↓</sub> CGCG <sub>↑</sub> C	<a href="#">*504/508</a>
1	<a href="#">BstBI</a>	TT <sub>↓</sub> CG <sub>↑</sub> AA	<a href="#">*3952/3954</a>
1	<a href="#">BstZ17I</a>	GTA <sub>↓</sub> TAC	<a href="#">6804</a>
1	<a href="#">Bsu36I</a>	CC <sub>↓</sub> TNA <sub>↑</sub> GG	<a href="#">2649/2652</a>
1	<a href="#">ClaI</a>	AT <sub>↓</sub> CG <sub>↑</sub> AT	<a href="#">*1937/1939</a>
1	<a href="#">EcoRI</a>	G <sub>↓</sub> AATT <sub>↑</sub> C	<a href="#">*2928/2932</a>
1	<a href="#">EcoRV</a>	GAT <sub>↓</sub> ATC	<a href="#">2950</a>
2	<a href="#">Esp3I</a>	CGTCTCN <sub>↓</sub> NNNN <sub>↑</sub>	<a href="#">*6674/6678</a>
2	<a href="#">FseI</a>	GG <sub>↓</sub> CCGG <sub>↑</sub> CC	<a href="#">*11/7</a>
2	<a href="#">HpaI</a>	GTT <sub>↓</sub> AAC	<a href="#">1815</a>

2 3	<a href="#">MluI</a>	A <sup>∇</sup> CGCG <sub>∇</sub> T	<a href="#">*2954/2958</a>
2 4	<a href="#">NdeI</a>	CA <sup>∇</sup> TA <sub>∇</sub> TG	<a href="#">6854/6856</a>
2 5	<a href="#">NotI</a>	GC <sup>∇</sup> GGCC <sub>∇</sub> GC	<a href="#">*2935/2939</a>
2 6	<a href="#">PaeR7I</a>	C <sup>∇</sup> TCGA <sub>∇</sub> G	<a href="#">*2916/2920</a>
2 7	<a href="#">PciI</a>	A <sup>∇</sup> CATG <sub>∇</sub> T	<a href="#">7031/7035</a>
2 8	<a href="#">PfiFI</a>	GACN <sup>∇</sup> N <sub>∇</sub> NGTC	<a href="#">6778/6779</a>
2 9	<a href="#">PshAI</a>	GACNN <sup>∇</sup> NNGTC	<a href="#">*5274</a>
3 0	<a href="#">PspXI</a>	VC <sup>∇</sup> TCGA <sub>∇</sub> GB	<a href="#">*2916/2920</a>
3 1	<a href="#">PstI</a>	C <sub>∇</sub> TGCA <sup>∇</sup> G	<a href="#">8169/8165</a>
3 2	<a href="#">SacI</a>	CC <sub>∇</sub> GC <sup>∇</sup> GG	<a href="#">*4473/4471</a>
3 3	<a href="#">Sall</a>	G <sup>∇</sup> TCGA <sub>∇</sub> C	<a href="#">*3965/3969</a>
3 4	<a href="#">Scal</a>	AGT <sup>∇</sup> ACT	<a href="#">8404</a>
3 5	<a href="#">SfiI</a>	GGCCN <sub>∇</sub> NNN <sup>∇</sup> NGGCC	<a href="#">*5160/5157</a>

3 6	<a href="#">SmaI</a>	CCC <sup>∇</sup> GGG	<a href="#">*2912</a>
3 7	<a href="#">SnaBI</a>	TAC <sup>∇</sup> GTA	<a href="#">*2924</a>
3 8	<a href="#">SpeI</a>	A <sup>∇</sup> CTAG <sub>∇</sub> T	<a href="#">2347/2351</a>
3 9	<a href="#">SphI</a>	G <sub>∇</sub> CATG <sup>∇</sup> C	<a href="#">113/109</a>
4 0	<a href="#">SspI</a>	AAT <sup>∇</sup> ATT	<a href="#">8728</a>
4 1	<a href="#">StuI</a>	AGG <sup>∇</sup> CCT	<a href="#">5206</a>
4 2	<a href="#">Swal</a>	ATTT <sup>∇</sup> AAAT	<a href="#">3960</a>
4 3	<a href="#">TspMI</a>	C <sup>∇</sup> CCGG <sub>∇</sub> G	<a href="#">*2910/2914</a>
4 4	<a href="#">Tth11I</a>	GACN <sup>∇</sup> N <sub>∇</sub> NGTC	<a href="#">6778/6779</a>
4 5	<a href="#">XbaI</a>	T <sup>∇</sup> CTAG <sub>∇</sub> A	<a href="#">3945/3949</a>
4 6	<a href="#">XhoI</a>	C <sup>∇</sup> TCGA <sub>∇</sub> G	<a href="#">*2916/2920</a>
4 7	<a href="#">XmaI</a>	C <sup>∇</sup> CCGG <sub>∇</sub> G	<a href="#">*2910/2914</a>