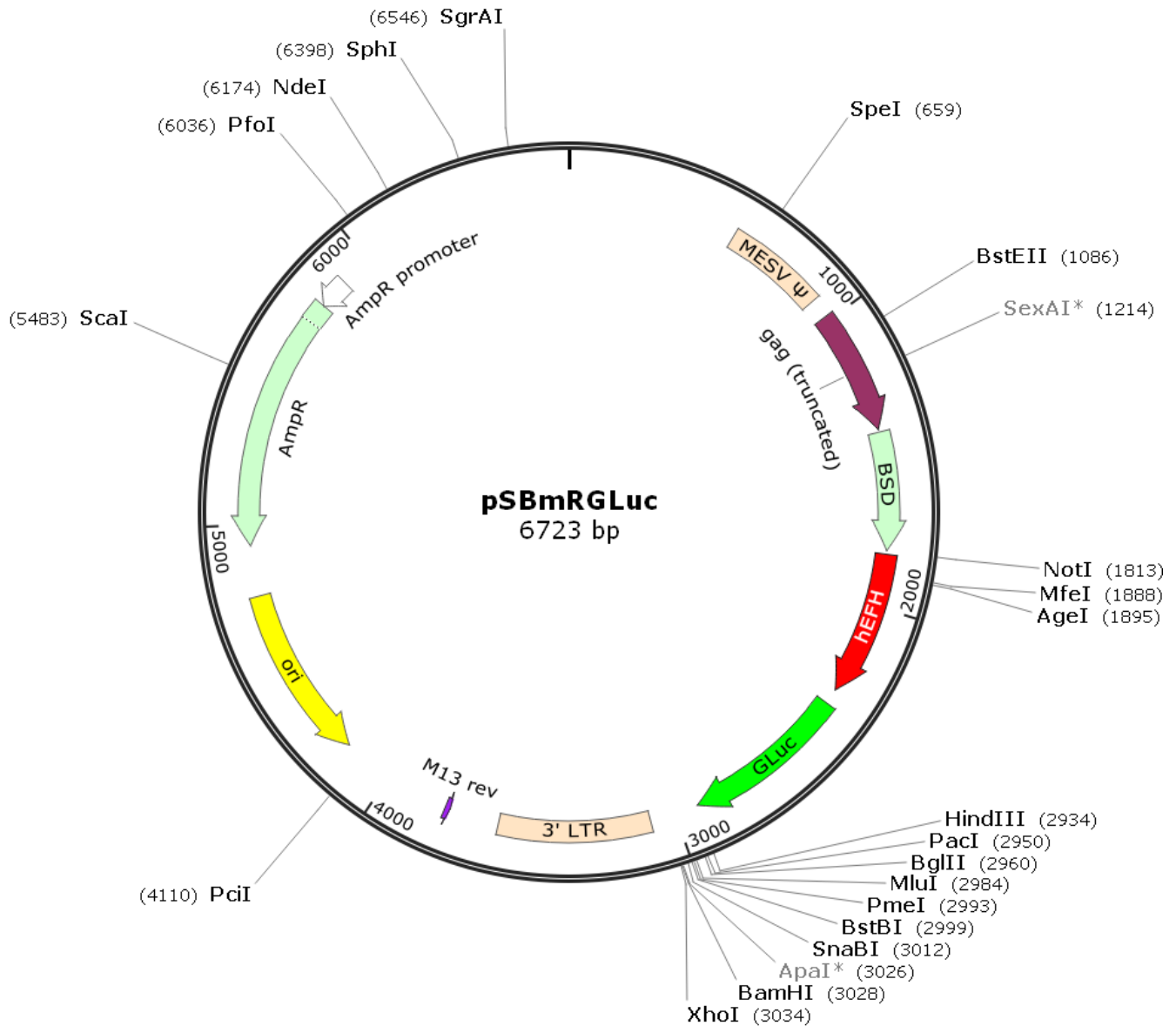


**Vector:** pSBmRGLuc (miR Reporter in pSEB-Linker2)

**Antibiotic Selection:** Amp (*BSD in mammalian cells*)

**Creator(s):** Linjuan Huang & Zongyue Zeng @ Molecular Oncology Lab of The University of Chicago Medical Center

**Date of Construction:** January 2020



## pSBmRGLuc Full-length Sequence

TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAAGTAACGCCATTTTGCAAGGCATGGAAAATACATAACTGAGAATA  
GAGAAGTTAGATCAAGGTTAGGAACAGAGAGACAGCAGAAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCCTCCCCG  
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CAATATCACCGCTGAAGCCTATAGAGTACGAGCCATAGATAAAAATAAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGGA

**Zero-Cutters :**

#	Enzyme	Specificity
1	AleI	CACNNNNGTG
2	AsiSI	GCGATCGC
3	AvrII	CCTAGG
4	BclI	TGATCA
5	BlpI	GCTNAGC
6	BmgBI	CACGTC
7	BsiWI	CGTACG
8	BsmI	GAATGCN
9	BspEI	TCCGGA
10	BstXI	CCANNNNNNTGG
11	BstZ17I	GTATAC
12	DraIII	CACNNNNGTG
13	FseI	GGCCGGCC
14	HpaI	GTTAAC
15	NsiI	ATGCAT
16	PflMI	CCANNNNNNTGG
17	PmlI	CACGTG
18	PshAI	GACNNNNGTC
19	PsiI	TTATAA
20	PspXI	VCTCGAGB
21	RsrII	CGGWCCG
22	SbfI	CCTGCAGG
23	SfiI	GGCCNNNNNGGCC
24	SrfI	GCCCGGGC
25	SwaI	ATTTAAAT
26	XcmI	CCANNNNNNNNTGG

## One-Cutters :

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	<a href="#">AgeI</a>	A CCGG↓T	<a href="#">list</a>	*1895/1899
2	<a href="#">ApaI</a>	G↓GGCC C	<a href="#">list</a>	*#3026/3022
3	<a href="#">BamHI</a>	G↓GATC↓C	<a href="#">list</a>	3028/3032
4	<a href="#">BfuAI</a>	ACCTGCNNNN NNNN↓	<a href="#">list</a>	2835/2839
5	<a href="#">BglII</a>	A↓GATC↓T	<a href="#">list</a>	2960/2964
6	<a href="#">BsaAI</a>	YAC↓GTR	<a href="#">list</a>	*3012
7	<a href="#">BspMI</a>	ACCTGCNNNN NNNN↓	<a href="#">list</a>	2835/2839
8	<a href="#">BstBI</a>	TT↓CG↓AA	<a href="#">list</a>	*2999/3001
9	<a href="#">BstEII</a>	G↓GTNAC↓C	<a href="#">list</a>	1086/1091
10	<a href="#">HindIII</a>	A↓AGCT↓T	<a href="#">list</a>	2934/2938
11	<a href="#">MfeI</a>	C↓AATT↓G	<a href="#">list</a>	1888/1892
12	<a href="#">MluI</a>	A↓CGCG↓T	<a href="#">list</a>	*2984/2988
13	<a href="#">NdeI</a>	CA↓TA↓TG	<a href="#">list</a>	6174/6176
14	<a href="#">NotI</a>	GC↓GGCC↓GC	<a href="#">list</a>	*1813/1817
15	<a href="#">PacI</a>	TTA↓AT TAA	<a href="#">list</a>	2950/2948
16	<a href="#">PaeR7I</a>	C↓TCGA↓G	<a href="#">list</a>	*3034/3038
17	<a href="#">PciI</a>	A↓CATG↓T	<a href="#">list</a>	4110/4114
18	<a href="#">PmeI</a>	GTTT↓AAAC	<a href="#">list</a>	2993
19	<a href="#">PspOMI</a>	G↓GGCC↓C	<a href="#">list</a>	*#3022/3026
20	<a href="#">ScaI</a>	AGT↓ACT	<a href="#">list</a>	5483
21	<a href="#">SexAI</a>	A↓CCWGG↓T	<a href="#">list</a>	#1214/1219
22	<a href="#">SgrAI</a>	CR↓CCGG↓YG	<a href="#">list</a>	*6546/6550
23	<a href="#">SnaBI</a>	TAC↓GTA	<a href="#">list</a>	*3012
24	<a href="#">SpeI</a>	A↓CTAG↓T	<a href="#">list</a>	659/663
25	<a href="#">SphI</a>	G↓CATG↓C	<a href="#">list</a>	6398/6394
26	<a href="#">StuI</a>	AGG↓CCT	<a href="#">list</a>	#3018
27	<a href="#">XhoI</a>	C↓TCGA↓G	<a href="#">list</a>	*3034/3038