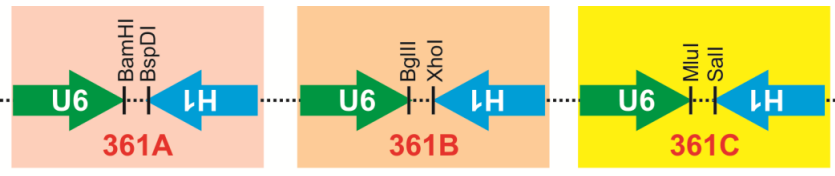
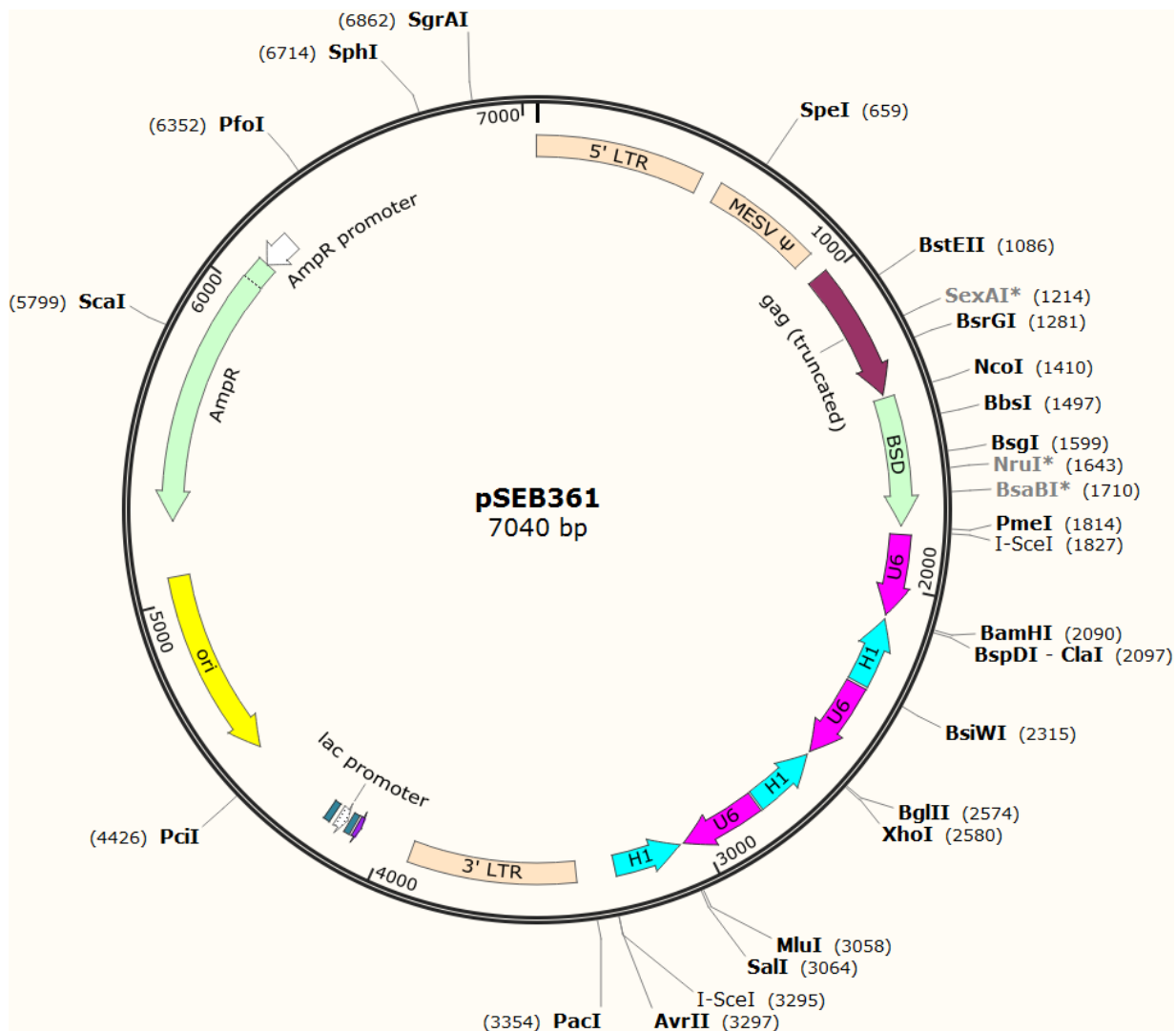


Vector: pSEB361

Antibiotic Selection: Amp

Creator(s): Bo Huang, Zhenyu Ye, Yan Lei, and Ling Zhao, Molecular Oncology Laboratory of The University of Chicago Medical Center

Date of Construction: July 4, 2018



361A	5'-gatcaAAAAANNNNNNNNNNNNNNNNNNNNNNTTTTTTta-3' 3'-tTTTTTnnnnnnnnnnnnnnnnnnnnAAAAAatgc-5'
361B	5'-gatcaAAAAANNNNNNNNNNNNNNNNNNNNNNTTTTTTt-3' 3'-tTTTTTnnnnnnnnnnnnnnnnnnnnAAAAAaagct-5'
361C	5'-cgcgaAAAAANNNNNNNNNNNNNNNNNNNNNNTTTTTTt-3' 3'-tTTTTTnnnnnnnnnnnnnnnnnnnnAAAAAaagct-5'

TCH4713	GGATCCCCTGCAGGaATCGAT	361A	screening	Fwd
TCH4714	AGATCTGCCCGGGCCTCGAG	361B	screening	Fwd
TCH4715	ACGCGTATTTAAATGTCGAC	361C	screening	Fwd
TCH4736	ATCGATtCCTGCAGGGGATCC	361A	screening	Rev
TCH4737	CTCGAGCCCGGGCAGATCT	361B	screening	Rev
TCH4738	GTCGACATTTAAATACGCGT	361C	screening	Rev

pSEB361 Full-Length Sequence

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Zero Cutters in pSEB361

#	Enzyme	Specificity
1	AgeI	A CCGG▲T
2	AleI	CACNN▲NNGTG
3	AsiSI	GCG▲AT CGC
4	BclI	T GATC▲A
5	BfuAI	ACCTGCNNNN NNNN▲
6	BlpI	GC TNA▲GC
7	BmgBI	CAC▲GTC
8	BsmI	GAATG▲CN
9	BspEI	T CCGG▲A
10	BspMI	ACCTGCNNNN NNNN▲
11	BstBI	TT CG▲AA
12	BstXI	CCAN▲NNNN NTGG
13	BstZ17I	GTA▲TAC
14	BtgZI	GCGATG (N) ₁₀ NNNN▲
15	DraIII	CAC▲NNN GTG
16	FseI	GG▲CCGG CC
17	HindIII	A AGCT▲T
18	HpaI	GTT▲AAC
19	MfeI	C AATT▲G
20	NotI	GC GGCC▲GC
21	NsiI	A▲TGCA T
22	PflMI	CCAN▲NNN NTGG
23	PmlI	CAC▲GTG
24	PspXI	VC TCGA▲GB
25	RsrII	CG GWC▲CG
26	SacII	CC▲GC GG
27	SbfI	CC▲TGCA GG
28	SfiI	GGCCN▲NNN NGGCC
29	SnaBI	TAC▲GTA
30	SrfI	GCCC▲GGGC
31	StuI	AGG▲CCT
32	SwaI	ATTT▲AAAT
33	XcmI	CCANNNN▲N NNNNTGG

One-Cutters in pSEB361

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AccI	GT MK▲AC	list	*3065/3067
2	AvrII	C CTAG▲G	list	3297/3301

3	BamHI	G GATC▲C	list	2090/2094
4	BbsI	GAAGACNN NNNN▲	list	1497/1501
5	BglII	A GATC▲T	list	2574/2578
6	BsaBI	GATNN▲NNATC	list	*#1710
7	BsgI	GTGCAG (N) ₁₄ ▲NN	list	1599/1597
8	BsiWI	C GTAC▲G	list	*2315/2319
9	BspDI	AT CG▲AT	list	*2097/2099
10	BsrGI	T GTAC▲A	list	1281/1285
11	BstEII	G GTNAC▲C	list	1086/1091
12	ClaI	AT CG▲AT	list	*2097/2099
13	CspCI	▲NN (N) ₁₁ CAA (N) ₅ GTGG (N) ₁₀ ▲NN	list	1429/1427+1464/1462
14	HincII	GTY▲RAC	list	*3066
15	MluI	A CGCG▲T	list	*3058/3062
16	NcoI	C CATG▲G	list	1410/1414
17	NruI	TCG▲CGA	list	*#1643
18	PacI	TTA▲AT TAA	list	3354/3352
19	PaeR7I	C TCGA▲G	list	*2580/2584
20	PciI	A CATG▲T	list	4426/4430
21	PmeI	GTTT▲AAAC	list	1814
22	PshAI	GACNN▲NNGTC	list	*3061
23	SalI	G TCGA▲C	list	*3064/3068
24	ScaI	AGT▲ACT	list	5799
25	SexAI	A CCWGG▲T	list	#1214/1219
26	SgrAI	CR CCGG▲YG	list	*6862/6866
27	SpeI	A CTAG▲T	list	659/663
28	SphI	G▲CATG C	list	6714/6710
29	XhoI	C TCGA▲G	list	*2580/2584