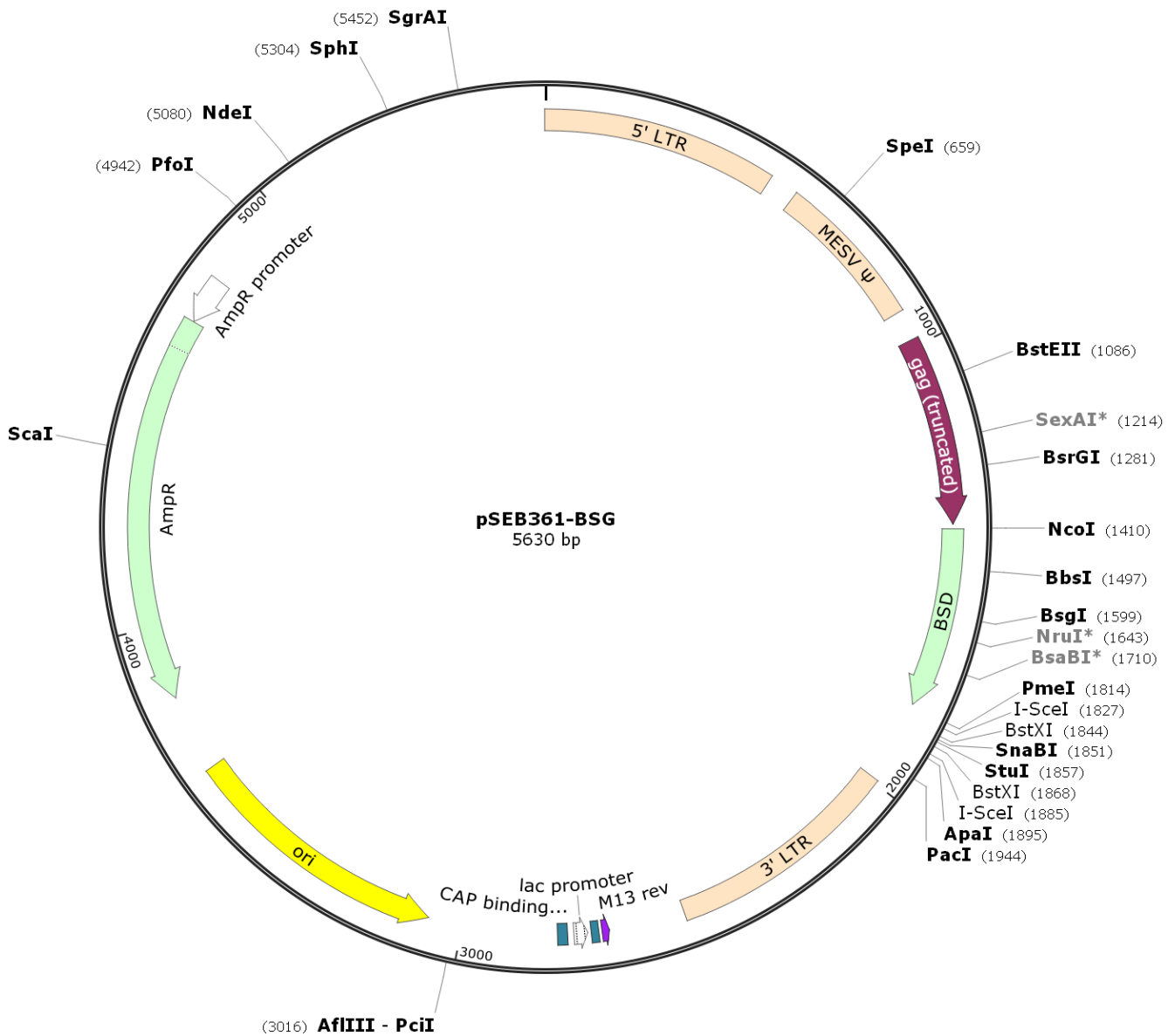


Vector: pSEB361-BSG (Retroviral, BSG destination vector, BstXI-A/D)

Antibiotic Selection: Amp

Creator(s): Xi Wang & Zongyue Zeng, Molecular Oncology Lab of The University of Chicago Medical Center

Date of Construction: October, 2018



pSEB361-BSG Full-length Sequence*

(* Based on partially sequenced data; not fully sequenced)

TGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTGAAGGCATGGAAAATACATAACT
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 GGGAA

Zero-Cutters

#	Enzyme	Specificity
1	AccI	GT MK \blacktriangle AC
2	AgeI	A CCGG \blacktriangle T
3	AleI	CACNN \blacktriangle NNGTG
4	AsiSI	GCG \blacktriangle AT CGC
5	BamHI	G GATC \blacktriangle C
6	BclI	T GATC \blacktriangle A
7	BfuAI	ACCTGCNNNN NNNN \blacktriangle
8	BglII	A GATC \blacktriangle T
9	BlpI	GC TNA \blacktriangle GC
10	BmgBI	CAC \blacktriangle GTC
11	BsiWI	C GTAC \blacktriangle G
12	BsmI	GAATG \blacktriangle CN
13	BspDI	AT CG \blacktriangle AT
14	BspEI	T CCGG \blacktriangle A
15	BspMI	ACCTGCNNNN NNNN \blacktriangle
16	BstBI	TT CG \blacktriangle AA
17	BstZ17I	GTA \blacktriangle TAC
18	BtgZI	GCGATG (N) ₁₀ NNNN \blacktriangle
19	ClaI	AT CG \blacktriangle AT
20	DraIII	CAC \blacktriangle NNN GTG
21	FseI	GG \blacktriangle CCGG CC

22	HincII	GTY \blacktriangle RAC
23	HindIII	A AGCT \blacktriangle T
24	HpaI	GTT \blacktriangle AAC
25	MfeI	C AATT \blacktriangle G
26	MluI	A CGCG \blacktriangle T
27	NotI	GC GGCC \blacktriangle GC
28	NsiI	A \blacktriangle TGCA T
29	PaeR7I	C TCGA \blacktriangle G
30	PflMI	CCAN \blacktriangle NNN NTGG
31	PmlI	CAC \blacktriangle GTG
32	PshAI	GACNN \blacktriangle NNGTC
33	PsiI	TTA \blacktriangle TAA
34	PspXI	VC TCGA \blacktriangle GB
35	RsrII	CG GWC \blacktriangle CG
36	SacII	CC \blacktriangle GC GG
37	SalI	G TCGA \blacktriangle C
38	SbfI	CC \blacktriangle TGCA GG
39	SfiI	GGCCN \blacktriangle NNN NGGCC
40	SrfI	GCCC \blacktriangle GGGC
41	SwaI	ATTT \blacktriangle AAAT
42	XcmI	CCANNNN \blacktriangle N NNNNTGG
43	XhoI	C TCGA \blacktriangle G

One-Cutters

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AflIII	A CRYG↓T	list	3016/3020
2	ApaI	G↓GGCC C	list	*1895/1891
3	AvrII	C CTAG↓G	list	1887/1891
4	BbsI	GAAGACNN NNN↓N	list	1497/1501
5	BsaAI	YAC↓GTR	list	*1851
6	BsaBI	GATNN↓NNATC	list	*#1710
7	BsqI	GTGCAG (N) ₁₄ ↓NN	list	1599/1597
8	BsrGI	T GTAC↓A	list	1281/1285
9	BstEII	G GTNAC↓C	list	1086/1091
10	CspCI	↓NN (N) ₁₁ CAA (N) ₅ GTGG (N) ₁₀ ↓NN	list	1429/1427+1464/1462
11	NcoI	C CATG↓G	list	1410/1414
12	NdeI	CA TA↓TG	list	5080/5082
13	NruI	TCG↓CGA	list	*#1643
14	PacI	TTA↓AT TAA	list	1944/1942
15	PciI	A CATG↓T	list	3016/3020
16	PmeI	GTTT↓AAAC	list	1814
17	PspOMI	G GGCC↓C	list	*1891/1895
18	ScaI	AGT↓ACT	list	4389
19	SexAI	A CCWGG↓T	list	#1214/1219
20	SgrAI	CR CCGG↓YG	list	*5452/5456
21	SnaBI	TAC↓GTA	list	*1851
22	SpeI	A CTAG↓T	list	659/663
23	SphI	G↓CATG C	list	5304/5300
24	StuI	AGG↓CCT	list	1857