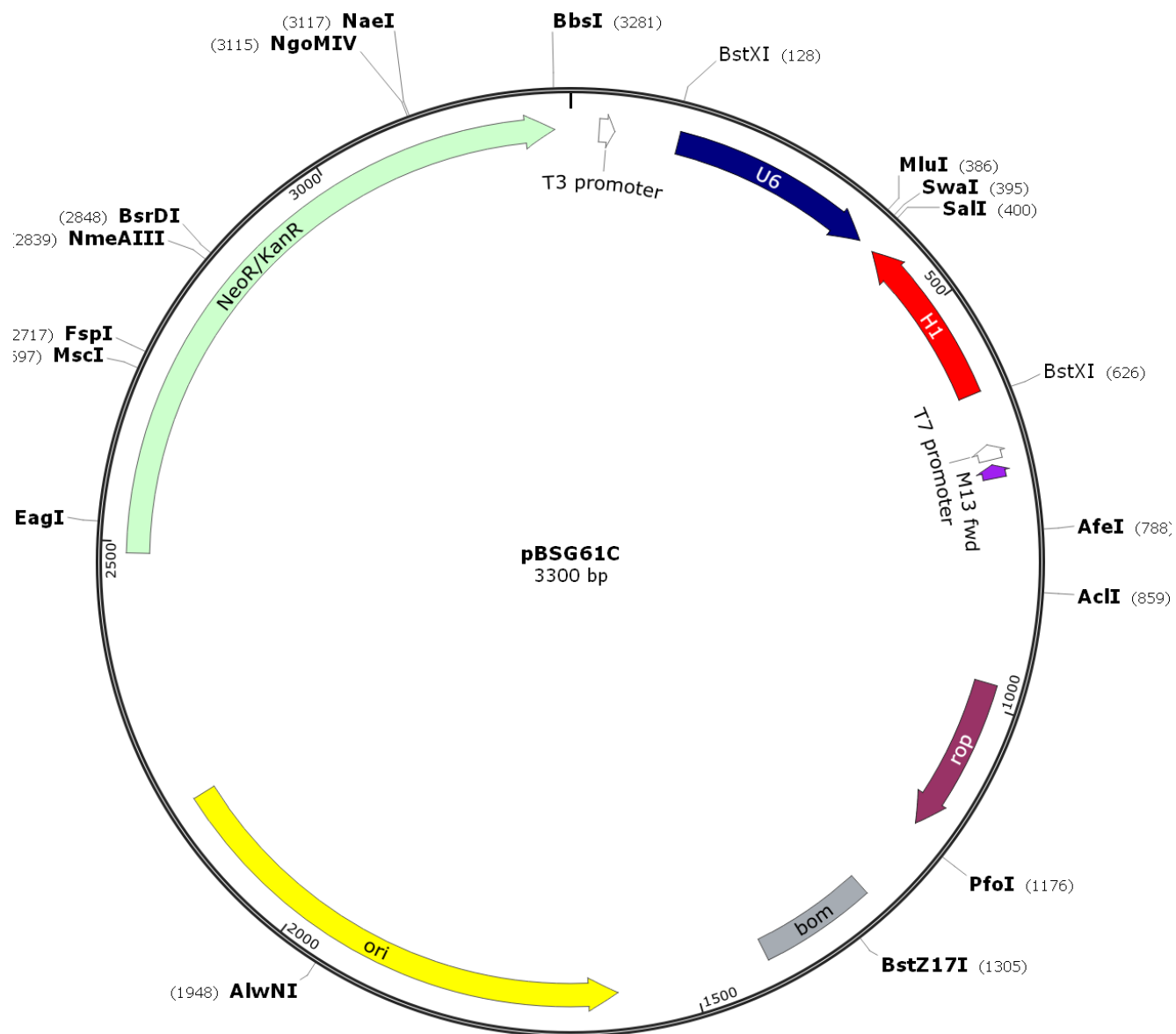


Vector: pBSG61C (pMOK1-based, BstXI-shotgun entry vector C; BstXI-C/D)

Antibiotic Selection: Kan

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

Date of Construction: October, 2018



pBSG61C Full-length Sequence*

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

GGAAACAGCTATGACCATGATTACGCCAAGCTCGAAATTAACCCTCACTAAAGGGAACAAAAGCTGGTACGAGGA
 CAGGCTGGAGCCATGGCTGGTGACCACGTCGTGGAATGCCTTCGCCAgCATGcTGGAAAGTCGGGCAGGAAGAG
 GGCCTATTTCCCATGATTCCTTCATATTTGCATATACGATACAAGGCTGTTAGAGAGATAATTAGAATTAATTTG
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 GCCGCTCCCGATTTCGAGCGCATCGCCTTCTATCGCCTTCTTACGAGTCTTCTGACCTTTCGTTTCAAGaat
 t

Zero-Cutters

#	Enzyme	Specificity
1	Acc65I	G GTAC▲C
2	AflII	C TTAA▲G

3	AgeI	A CCGG▲T
4	AleI	CACNN▲NNGTG
5	ApoI	R AATT▲Y

6	AscI	GG CGCG▲CC
7	AsiSI	GCG▲AT CGC
8	AvaI	C YCGR▲G
9	AvrII	C CTAG▲G
10	BaeI	▲(N) ₅ (N) ₁₀ ACNNNNGTAYC (N) ₇ ▲(N) ₅
11	BamHI	G GATC▲C
12	BbvCI	CC TCA▲GC
13	BclI	T GATC▲A
14	BglI	GCCN▲NNN NGGC
15	BglII	A GATC▲T
16	BlpI	GC TNA▲GC
17	BmtI	G▲CTAG C
18	Bpu10I	CC TNA▲GC
19	BsaI	GGTCTCN NNNN▲
20	BsaXI	▲NNN (N) ₉ AC (N) ₅ CTCC (N) ₇ ▲NNN
21	BseRI	GAGGAG (N) ₈ ▲NN
22	BsgI	GTGCAG (N) ₁₄ ▲NN
23	BsiWI	C GTAC▲G
24	BsoBI	C YCGR▲G
25	BspDI	AT CG▲AT
26	BspEI	T CCGG▲A
27	BsrGI	T GTAC▲A
28	BstBI	TT CG▲AA
29	Bsu36I	CC TNA▲GG
30	BtsI	GCAGTG▲NN
31	ClaI	AT CG▲AT
32	CspCI	▲NN (N) ₁₁ CAA (N) ₅ GTGG (N) ₁₀ ▲NN
33	Eco53kI	GAG▲CTC
34	EcoNI	CCTNN N▲NNAGG
35	EcoRI	G AATT▲C
36	EcoRV	GAT▲ATC
37	FseI	GG▲CCGG CC
38	HindIII	A AGCT▲T
39	HpaI	GTT▲AAC
40	KpnI	G▲GTAC C
41	MfeI	C AATT▲G

42	NheI	G CTAG▲C
43	NotI	GC GGCC▲GC
44	NruI	TCG▲CGA
45	NsiI	A▲TGCA T
46	PacI	TTA▲AT TAA
47	PaeR7I	C TCGA▲G
48	PmeI	GTTT▲AAAC
49	PmlI	CAC▲GTG
50	PpuMI	RG GWC▲CY
51	PshAI	GACNN▲NNGTC
52	PspXI	VC TCGA▲GB
53	PstI	C▲TGCA G
54	PvuI	CG▲AT CG
55	RsrII	CG GWC▲CG
56	SacI	G▲AGCT C
57	SacII	CC▲GC GG
58	SbfI	CC▲TGCA GG
59	ScaI	AGT▲ACT
60	SexAI	A CCWGG▲T
61	SfiI	GGCCN▲NNN NGGCC
62	SgrAI	CR CCGG▲YG
63	SmaI	CCC▲GGG
64	SnaBI	TAC▲GTA
65	SpeI	A CTAG▲T
66	SrfI	GCCC▲GGGC
67	StuI	AGG▲CCT
68	TspMI	C CCGG▲G
69	XbaI	T CTAG▲A
70	XcmI	CCANNNN▲N NNNNTGG
71	XhoI	C TCGA▲G
72	XmaI	C CCGG▲G

One-Cutters

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AclI	AA CG▲TT	list	*859/861
2	AfeI	AGC▲GCT	list	*788
3	AlwNI	CAG▲NNN CTG	list	1948/1945

4	ApaI	G↓GGCC C	list	*580/576
5	AseI	AT TA↓AT	list	218/220
6	AvaII	G GWC↓C	list	819/822
7	BbsI	GAAGACNN NNNN↓	list	3281/3285
8	BcgI	↓NN (N) ₁₀ CGA(N) ₆ TGC(N) ₁₀ ↓NN	list	*1111/1109+1145/1143
9	BmgBI	CAC↓GTC	list	*102
10	BsaBI	GATNN↓NNATC	list	*#731
11	BsmI	GAATG↓CN	list	115/113
12	BsrDI	GCAATG↓NN	list	2848/2846
13	BssHII	G CGCG↓C	list	*546/550
14	BstEII	G GTNAC↓C	list	94/99
15	BstZ17I	GTA↓TAC	list	1305
16	DraIII	CAC↓NNN GTG	list	*105/102
17	EagI	C GGCC↓G	list	*2521/2525
18	EcoO109I	RG GNC↓CY	list	150/153
19	FspI	TGC↓GCA	list	*2717
20	HincII	GTY↓RAC	list	*402
21	MluI	A CGCG↓T	list	*386/390
22	MscI	TGG↓CCA	list	2697
23	NaeI	GCC↓GGC	list	*3117
24	NgoMIV	G CCGG↓C	list	*3115/3119
25	NmeAIII	GCCGAG(N) ₁₉ ↓NN	list	2840/2838
26	PciI	A CATG↓T	list	1532/1536
27	PflMI	CCAN↓NNN NTGG	list	105/102
28	PsiI	TTA↓TAA	list	422
29	PspOMI	G GGCC↓C	list	*576/580
30	SalI	G TCGA↓C	list	*400/404
31	SspI	AAT↓ATT	list	491
32	SwaI	ATTT↓AAAT	list	395