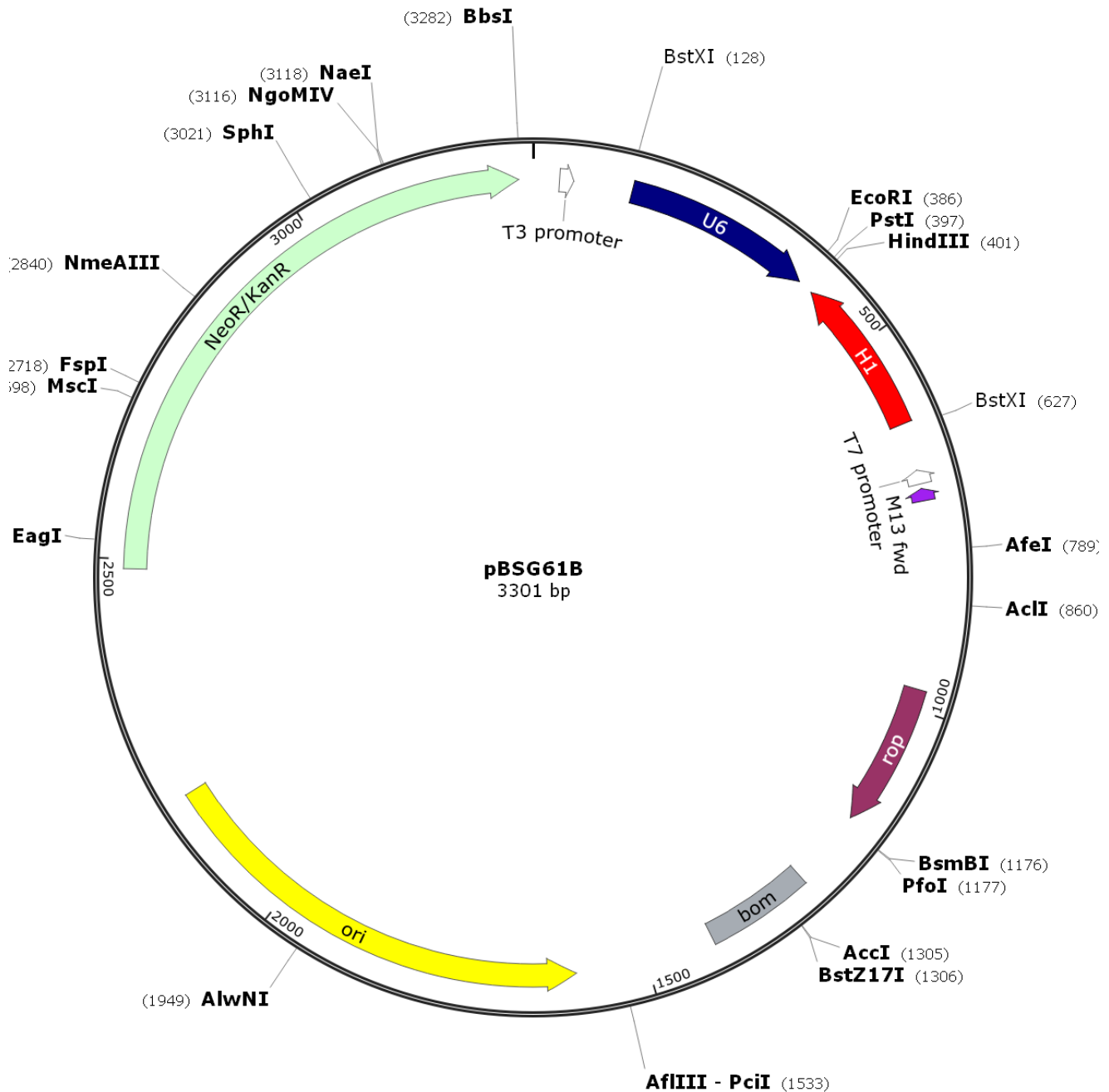


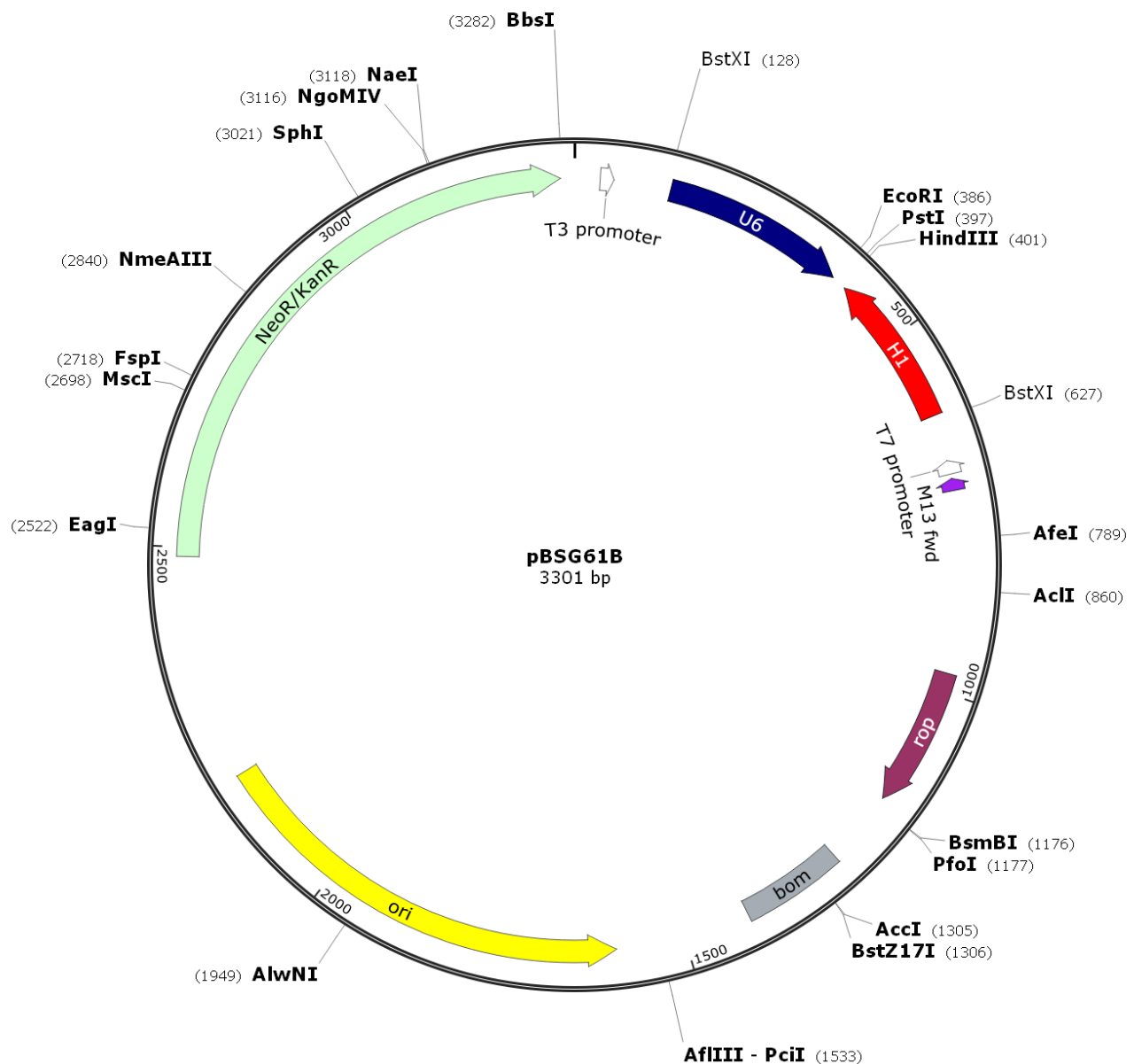
Vector: pBSG61B (pMOK1-based, BstXI-shotgun entry vector B; BstXI-B/C)

Antibiotic Selection: Kan

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

Date of Construction: October, 2018





pBSG361B Full-length Sequence*

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

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Zero-Cutters

#	Enzyme	Specificity
1	Acc65I	G↓GTAC▲C
2	AflII	C↓TTAA▲G
3	AgeI	A↓CCGG▲T
4	AleI	CACNN▲NNGTG
5	AscI	GG↓CGCG▲CC
6	AsiSI	GCG▲AT↓CGC
7	AvaI	C↓YCGR▲G
8	AvrII	C↓CTAG▲G
9	BaeI	▲(N) ₅ (N) ₁₀ ACNNNGTAYC(N) ₇ ▲ (N) ₅
10	BamHI	G↓GATC▲C
11	BbvCI	CC↓TCA▲GC
12	BclI	T↓GATC▲A
13	BglI	GCCN▲NNN↓NGGC
14	BglII	A↓GATC▲T
15	BlpI	GC↓TNA▲GC
16	BmtI	G▲CTAG↓C

17	Bpu10I	CC↓TNA▲GC
18	BsaI	GGTCTCN↓NNNN▲
19	BsaXI	▲NNN↓(N) ₉ AC(N) ₅ CTCC(N) ₇ ▲NNN
20	BseRI	GAGGAG(N) ₈ ▲NN
21	BsgI	GTGCAG(N) ₁₄ ▲NN
22	BsiWI	C↓GTAC▲G
23	BsoBI	C↓YCGR▲G
24	BspDI	AT↓CG▲AT
25	BspEI	T↓CCGG▲A
26	BsrGI	T↓GTAC▲A
27	BstBI	TT↓CG▲AA
28	Bsu36I	CC↓TNA▲GG
29	BtsI	GCAGTG▲NN
30	ClaI	AT↓CG▲AT
31	CspCI	▲NN↓(N) ₁₁ CAA(N) ₅ GTGG(N) ₁₀ ▲NN
32	Eco53kI	GAG▲CTC
33	EcoRV	GAT▲ATC

34	FseI	GG [▼] CCGG C
35	HincII	GTY [▼] RAC
36	HpaI	GTT [▼] AAC
37	KpnI	G [▼] GTAC C
38	MfeI	C AATT [▼] G
39	MluI	A CGCG [▼] T
40	NheI	G CTAG [▼] C
41	NotI	GC GGCC [▼] GC
42	NruI	TCG [▼] CGA
43	NsiI	A [▼] TGCA T
44	PacI	TTA [▼] AT TAA
45	PaeR7I	C TCGA [▼] G
46	PmeI	GTTT [▼] AAAC
47	PmlI	CAC [▼] GTG
48	PpuMI	RG GWC [▼] CY
49	PshAI	GACNN [▼] NNGTC
50	PspXI	VC TCGA [▼] GB
51	PvuI	CG [▼] AT CG
52	RsrII	CG GWC [▼] CG
53	SacI	G [▼] AGCT C

54	SacII	CC [▼] GC GG
55	SalI	G TCGA [▼] C
56	ScaI	AGT [▼] ACT
57	SexAI	A CCWGG [▼] T
58	SfiI	GGCCN [▼] NNN NGGCC
59	SgrAI	CR CCGG [▼] YG
60	SmaI	CCC [▼] GGG
61	SnaBI	TAC [▼] GTA
62	SpeI	A CTAG [▼] T
63	SrfI	GCCC [▼] GGGC
64	StuI	AGG [▼] CCT
65	SwaI	ATTT [▼] AAAT
66	TspMI	C CCGG [▼] G
67	XbaI	T CTAG [▼] A
68	XcmI	CCANNNN [▼] N NNNNTGG
69	XhoI	C TCGA [▼] G
70	XmaI	C CCGG [▼] G

One-Cutters

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AatII	G [▼] ACGT C	list	*610/606
2	AccI	GT MK [▼] AC	list	1305/1307
3	AclI	AA CG [▼] TT	list	*860/862
4	AfeI	AGC [▼] GCT	list	*789
5	AflIII	A CRYG [▼] T	list	1533/1537
6	AlwNI	CAG [▼] NNN CTG	list	1949/1946
7	ApaI	G [▼] GGCC C	list	*581/577
8	ApoI	R AATT [▼] Y	list	386/390
9	AseI	AT TA [▼] AT	list	218/220
10	AvaII	G GWC [▼] C	list	820/823
11	BbsI	GAAGACNN NNN [▼]	list	3282/3286
12	BcgI	[▼] NN (N) ₁₀ CGA(N) ₆ TGC(N) ₁₀ [▼] NN	list	*1112/1110+1146/1144
13	BmgBI	CAC [▼] GTC	list	*102
14	BsaBI	GATNN [▼] NNATC	list	*#732
15	BsmBI	CGTCTCN NNN [▼]	list	*1176/1180
16	BsmI	GAATG [▼] CN	list	115/113
17	BssHII	G CGCG [▼] C	list	*547/551
18	BstEII	G GTNAC [▼] C	list	94/99
19	BstZ17I	GTA [▼] TAC	list	1306

20	DraIII	CAC▲NNN GTG	list	*105/102
21	EagI	C GGCC▲G	list	*2522/2526
22	EcoNI	CCTNN N▲NNAGG	list	130/131
23	EcoO109I	RG GNC▲CY	list	150/153
24	EcoRI	G AATT▲C	list	386/390
25	Esp3I	CGTCTCN NNNN▲	list	*1176/1180
26	FspI	TGC▲GCA	list	*2718
27	HindIII	A AGCT▲T	list	401/405
28	MscI	TGG▲CCA	list	2698
29	NaeI	GCC▲GGC	list	*3118
30	NgoMIV	G CCGG▲C	list	*3116/3120
31	NmeAIII	GCCGAG (N) ₁₉ ▲NN	list	2841/2839
32	PciI	A CATG▲T	list	1533/1537
33	PflMI	CCAN▲NNN NTGG	list	105/102
34	PsiI	TTA▲TAA	list	423
35	PspOMI	G GGCC▲C	list	*577/581
36	PstI	C▲TGCA G	list	397/393
37	SbfI	CC▲TGCA GG	list	397/393
38	SphI	G▲CATG C	list	3021/3017
39	SspI	AAT▲ATT	list	492
40	ZraI	GAC▲GTC	list	*608