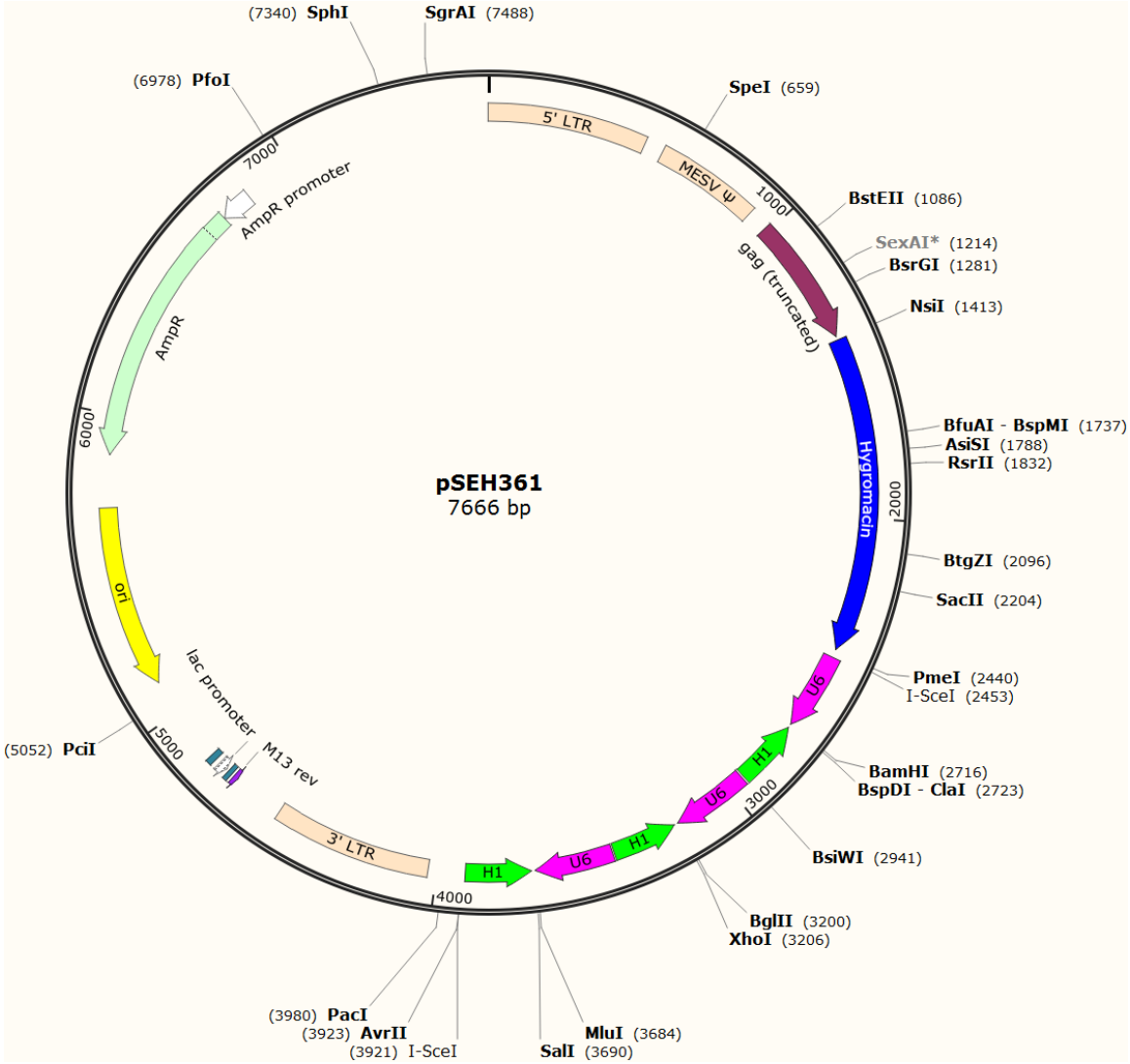
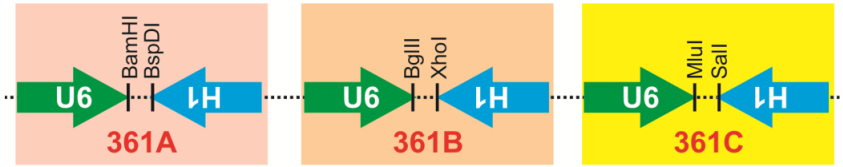
Vector: **pSEH361**

Antibiotic Selection: Amp

Creator(s): Bo Huang, Molecular Oncology Laboratory of The University of Chicago

Date of Construction: July 4, 2018





361A 5'-gatcaAAAAANNNNNNNNNNNNNNNNNNNTTTTTta-3'
3'-tTTTTTnnnnnnnnnnnnnnnnnnnAAAAAatgc-5'

361B 5'-gatcaAAAAANNNNNNNNNNNNNNNNNNNTTTTTt-3'
3'-tTTTTTnnnnnnnnnnnnnnnnnnnAAAAAaagct-5'

361C 5'-cgcgaAAAAANNNNNNNNNNNNNNNNNNNTTTTTt-3'
3'-tTTTTTnnnnnnnnnnnnnnnnnnnAAAAAaagct-5'

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

pSEH361 Full-Length Sequence

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Zero Cutters in pSEH361

#	Enzyme	Specificity
1	AgeI	A^CCGG_T
2	AleI	CACNN_^NNGTG
3	BbsI	GAAGACNN^NNNN_
4	BclI	T^GATC_A
5	BlpI	GC^TNA_GC
6	BmgBI	CAC_^GTC
7	BsaBI	GATNN_^NNATC
8	BsgI	GTGCAG(N)$_{14}$_^NN
9	BsmI	GAATG_^CN
10	BstBI	TT^CG_AA
11	BstXI	CCAN_^NNNN^NTGG
12	BstZ17I	GTA_^TAC
13	CspCI	_^NN^(N)$_{11}$CAA(N)$_5$GTGG(N)$_{10}$_^NN
14	FseI	GG_^CCGG^CC
15	HindIII	A^AGCT_^T
16	HpaI	GTT_^AAC
17	MfeI	C^AATT_^G
18	NotI	GC^GGCC_^GC
19	NruI	TCG_^CGA
20	PflMI	CCAN_^NNN^NTGG
21	PmlI	CAC_^GTG
22	PspXI	VC^TCGA_^GB
23	SbfI	CC_^TGCA^GG
24	SfiI	GGCCN_^NNN^NGGCC
25	SnaBI	TAC_^GTA
26	SrfI	GCCC_^GGGC
27	StuI	AGG_^CCT
28	SwaI	ATTT_^AAAT
29	XcmI	CCANNNN_^N^NNNNTGG

One-Cutters in pSEH361

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AccI	GT^MK_AC	list	*3691/3693

2	AsiSI	GCG▲AT▼CGC	list	*1788/1786
3	AvrII	C▼CTAG▲G	list	3923/3927
4	BamHI	G▼GATC▲C	list	2716/2720
5	BfuAI	ACCTGCNNNN▼NNNN▲	list	1737/1741
6	BglII	A▼GATC▲T	list	3200/3204
7	BsiWI	C▼GTAC▲G	list	*2941/2945
8	BspDI	AT▼CG▲AT	list	*2723/2725
9	BspMI	ACCTGCNNNN▼NNNN▲	list	1737/1741
10	BsrGI	T▼GTAC▲A	list	1281/1285
11	BstEII	G▼GTNAC▲C	list	1086/1091
12	BtgZI	GCGATG$(N)_{10}$▼NNNN▲	list	*2096/2100
13	ClaI	AT▼CG▲AT	list	*2723/2725
14	MluI	A▼CGCG▲T	list	*3684/3688
15	NsiI	A▲TGCA▼T	list	1413/1409
16	PacI	TTA▲AT▼TAA	list	3980/3978
17	PaeR7I	C▼TCGA▲G	list	*3206/3210
18	PciI	A▼CATG▲T	list	5052/5056
19	PmeI	GTTT▼AAAC	list	2440
20	RsrII	CG▼GWC▲CG	list	*1832/1835
21	SacII	CC▲GC▼GG	list	*2204/2202
22	SalI	G▼TCGA▲C	list	*3690/3694
23	SexAI	A▼CCWGG▲T	list	#1214/1219
24	SgrAI	CR▼CCGG▲YG	list	*7488/7492
25	SpeI	A▼CTAG▲T	list	659/663
26	SphI	G▲CATG▼C	list	7340/7336
27	XhoI	C▼TCGA▲G	list	*3206/3210