RIKEN BRC

BRC_No 00438 **Strain name** SEK1 Knockout mice

Primer

	primer_name	primer_seq	length	
1	Sek1 5'	ACAGCAAATTTTGGAAACAGC	21	
2	mutant 3'	CTCCCCTACCCGGTAGAATTC	21	PGK promoter
3	Sek1 3'	AATTTCTCCAAGGTCTTTCAA	21	

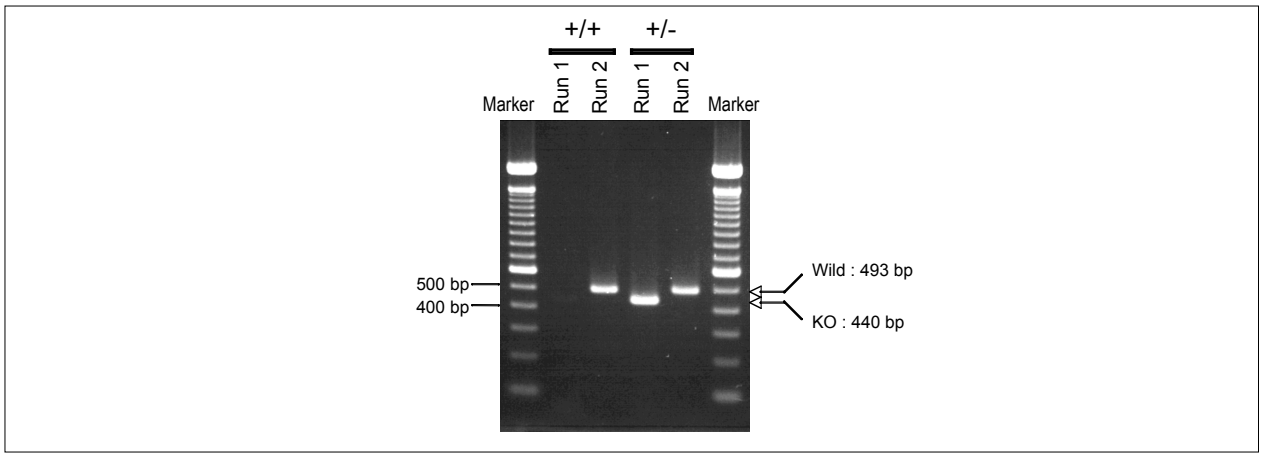
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3
H2O		17.3	17.3	
PCR buffer	10 X	2.5	2.5	
dNTP	25 mM	2.0	2.0	
primer 1	10 pmol/μl	1.0	1.0	
primer 2	10 pmol/μl	1.0	0	
primer 3	10 pmol/μl	0	1.0	
DNA		1.0	1.0	
Taq		0.2	0.2	
	total	25	25	

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	300	
2	94	30	*
3	55	30	*
4	72	60	* *Repeat for 35 cycles
5	72	300	



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	440 bp	KO
primer 1	primer 3	493 bp	wild

Comment