PCR protocol

RBRC 04886 **Strain name** B6;129S4(SJL)-Cacna1a<tm3.1(CACNA1A)Ttan>

Primer

	primer_name	primer_seq	length		
1	mBI-F1	GGATGTACAAGCAGTCGATG	20		Depositor's primer
2	mBI-R2	ATCAGCCCCCAGGTCTCTTT	20		Depositor's primer
3	hs1A-R1	TGCTTGTACATCCTTTGCGC	20		Depositor's primer

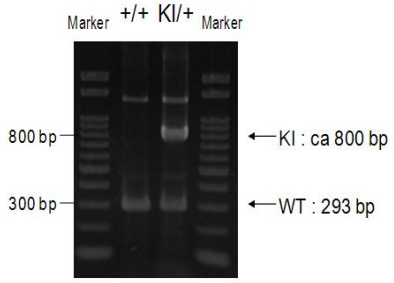
Reaction Components

Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	60	* *Repeat for 30 cycles



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	293 bp	WT
primer 1	primer 3	ca 800 bp	KI

Comment