PCR protocol

RBRC 01119 Strain name REN-KO (ICR)

Primer	primer_name	primer_seq	length	
1		GGCCCCAAGCCCTGAAGTC	19	
2		CCTTCTATCGCCTTCTTGACGAG	23	
3		GGCCTTCCAGGTGCCCAGGC	20	

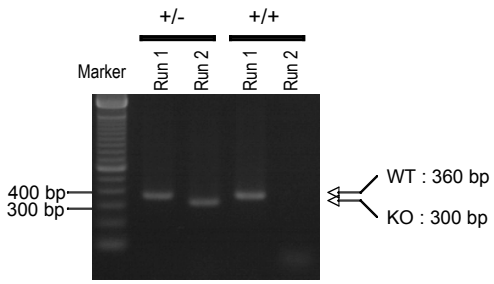
Reaction Components

Enzyme: Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		17.3	17.3		
PCR buffer	10 X	2.5	2.5		
dNTP	2.5 mM	2.0	2.0		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	0	1.0		
primer 3	10 pmol/μl	1.0	1.0		
DNA		1.0	1.0		
Taq		0.2	0.2		
	total	25	25		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	58	30*	
4	72	60*	*Repeat for 30 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 3	360 bp	wild
primer 2	primer 3	300 bp	KO

Comment