PCR protocol

RBRC 03979 **Strain name** B6;129-Chr17-Pirc<tm2Ms>

Primer	primer_name	primer_seq	length		
1	Chr17_S1	GGGCTGCTCTGTCTGACAACG	21		Depositor's primer
2	Chr17_AS1w	CTGTCTCCAACCGTCTTAGGCTA	23		Depositor's primer
3	Pgk_knockin	TGCACGAGACTAGTGGAGACGTG	23		Depositor's primer

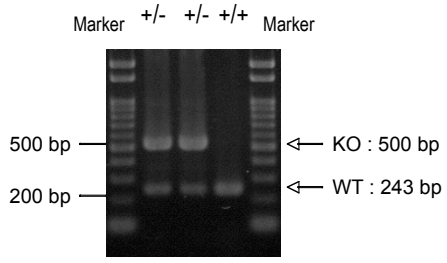
Reaction Components

Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.9			
PCR buffer	2 X GC I	10.0			
dNTP	2.5 mM	2.0			
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	5U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)		note
1	94	180		
2	94	30	*	
3	60	30	*	
4	72	60	*	*Repeat for 30 cycles
5	72	300		



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	243 bp	WT
primer 1	primer 3	500 bp	KO

Comment