PCR protocol

RBRC 01518 **Strain name** p53 KO DBA/2 back cross mouse

Primer	primer_name	primer_seq	length
1	LCB614(int-1)	GTTATGCATCCATACAGTACA	21
2	LCB651(exon3)	CAGGATATCTTCTGGAGGAAG	21

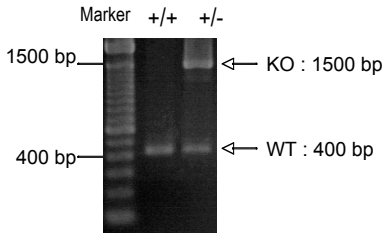
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		4.8			
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			
DNA		1.0			
Taq		0.2			
		total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	300	
2	94	30*	
3	57	30*	
4	72	120*	*Repeat for 33 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	1500 bp	KO
primer 1	primer 2	400 bp	wild

Comment