PCR protocol

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RBRC 05638 **Strain name** B6;129-Nov<tm1Hko>

Primer	primer_name	primer_seq	length		
1	Ps1/PCR#3	CTCGTGCTTTACGGTATCG	19		Depositor's primer
2	DB70	TGCATCTGAGCAGTTCTGAG	20		Depositor's primer
3	DB396	AATGCCAGTCTGGTTGTTGG	20		Depositor's primer

Reaction Components

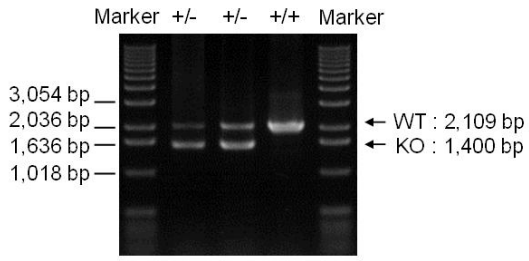
Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	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	5 U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)		note
1	94	180		
2	94	30	*	
3	60	30	*	
4	72	120	*	*Repeat for 30 cycles
5	72	300		

Standard PCR



Marker

1 kb DNA ladder (Invitrogen, Cat. 15615-024)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	1,400 bp	KO
primer 2	primer 3	2,109 bp	WT

Comment