PCR protocol

RBRC 00437 **Strain name** Prion protein (PrP) Knockout mice

Primer	primer_name	primer_seq	length		
1	Neo5	TCCTGCCGAGAAAGTATCCA	20		Depositor's primer
2	MT3	CTCATCTTCCTGATCGTGGG	20		Depositor's primer
3		CAGAGTCAAGATCTCCTAGT	20		Depositor's primer

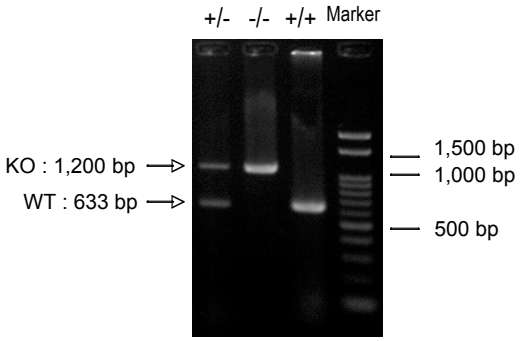
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.8			
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			
primer 3	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 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 2	primer 3	633 bp	WT
primer 1	primer 3	1,200 bp	KO

Comment