RIKEN BRC

Jun. 21, 2006

BRC_No 01513 **Strain name** Mnk2 knockout mouse

Primer

	primer_name	primer_seq	length	
1	Mnk2 sense primer	ATTGAGAAGCAGCTGGGCCACATCCGCAGC	30	
2	Mnk2-antisense	GTCGCAGCGCTTGTCGTAGATGCTGGC	27	
3	NeoR primer	GATTCGCAGCGCATCGCCTTCTATCG	26	

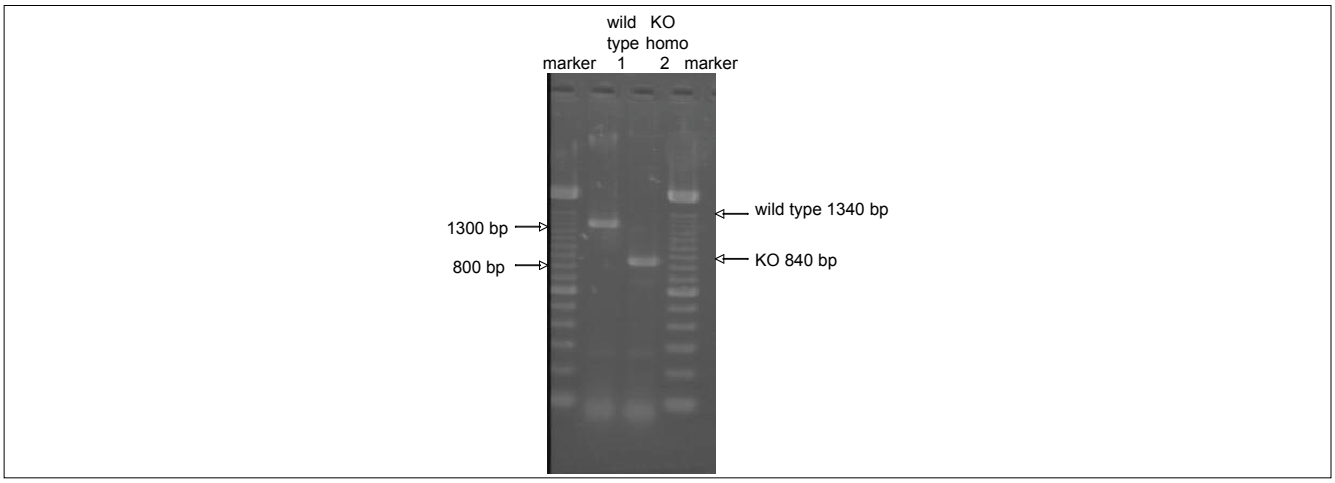
Reaction Components

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

	Conc	Run 1	Run 2	Run 3
H2O		3.8		
PCR buffer	2 X	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	180	
2	94	30	*
3	60	30	*
4	72	120	* *Repeat for 30 cycles
5	72	300	



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

2% agarose in 1 X TAE (100 V, 40 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	1340 bp	wild
primer 2	primer 3	840 bp	KO

Comment