

BRC_No 01512 Strain name Mnk1 knockout mouse

Primer		
primer_name	primer_seq	length
1 Mnk1-sense primer	GACCCAGGAATGACACCTTC	20
2 Mnk1-antisense	GCGCAAACCACATGTGCTTT	20
3 NeoR primer	GATTCGCAGCGCATCGCCTTCTATCG	26

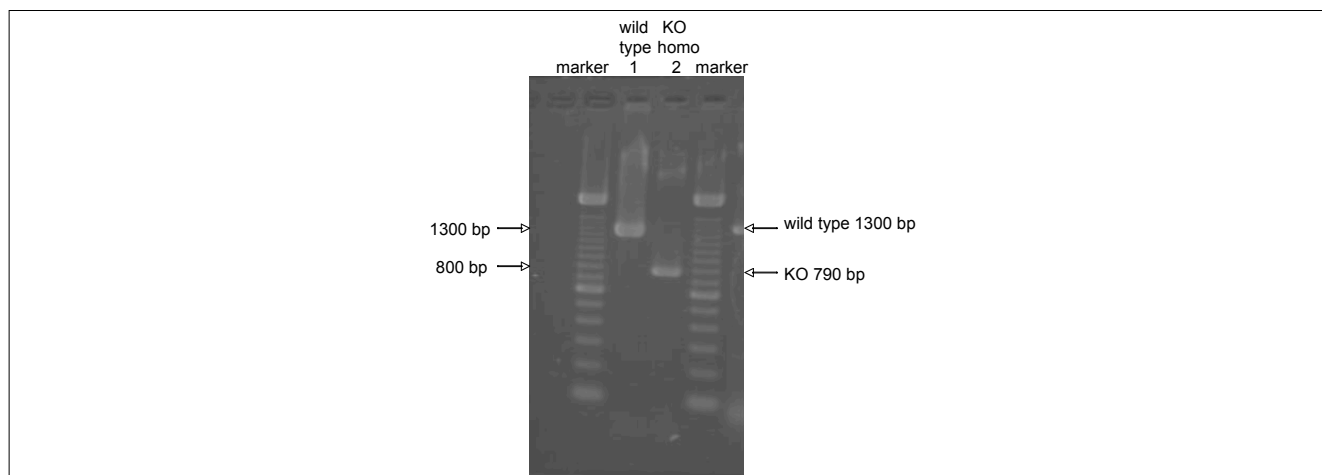
Reaction Components

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/ μ l	1.0		
primer 2	10 pmol/ μ l	1.0		
primer 3	10 pmol/ μ l	1.0		
DNA		1.0		
Taq		0.2		
total		20		

Reaction Conditions

step	temp (°C)	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	1300 bp wild
primer 2	primer 3	790 bp KO

Comment