

PCR protocol

Sheet ID PS_02511
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RBRC 01392 Strain name Mesp1, Mesp2-double Knockout mice

Primer	primer_name	primer_seq	length	
1	01392	GCCACCTGGCCCTTGCTACTCC	22	RIKEN BRC
2	01392	CTGAGTTCATTGACGTGGACCC	22	RIKEN BRC
3	01392	GCTTTGGTCTTGGGCTTCCAGTG	23	RIKEN BRC
4	01392	GAGCTGCACCTGGCCTGCAGTG	22	RIKEN BRC

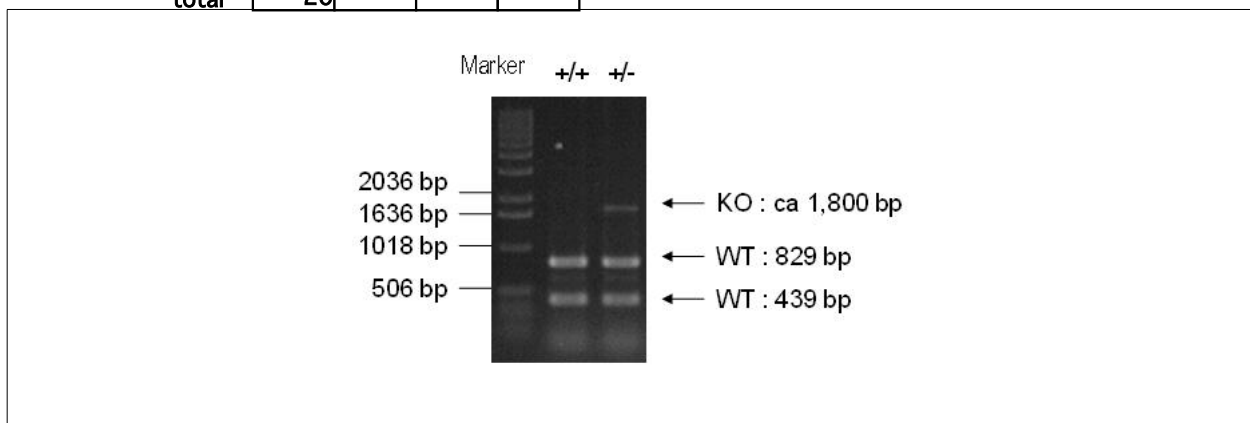
Reaction Components

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

Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.9			
PCR buffer	10 X	10.0			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	0.5			
primer 3	10 pmol/ μ l	1.0			
primer 4	10 pmol/ μ l	0.5			
DNA		1.0			
Taq	5U/ μ l	0.1			
total		20			

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

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	439 bp
primer 3	primer 4	829 bp
primer 1	primer 3	ca 1,800 bp

Comment