PCR protocol

RBRC 03202 **Strain name** B6.129S-Mgmt<tm1Mse>

Primer

	primer_name	primer_seq	length		
1	03202_Fw	GTGTTGGACAGCCCTTTGGG	20		RIKEN BRC
2	03202_Rv	CTCATGGGATTCAACACCTCTG	22		RIKEN BRC
3	Neo	GCAATCCATCTTGTTCAATGGCC	23		Depositor's primer

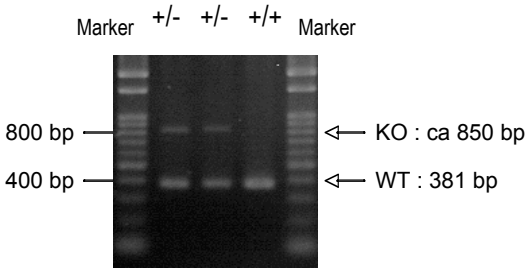
Reaction Components

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		0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	60	30	*
4	72	60	* *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 1	primer 2	381 bp	WT
primer 2	primer 3	ca 850 bp	KO

Comment