

PCR protocol

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RBRC 02698

Strain name B6.Cg-Rapgef2<tm1.1Tkat>

Primer	primer_name	primer_seq	length	
1	mRA-GEF-1 loxpE2833	CGAGTCCTGAACATAAGGGCAGGG	24	Biochem. Biophys. Res. Commun., 363, 106-112 (2007).
2	mRA-GEF-1 loxP F	GTCAGACTAGCAGCAGACCACCTAG	25	Biochem. Biophys. Res. Commun., 363, 106-112 (2007).

Reaction Components

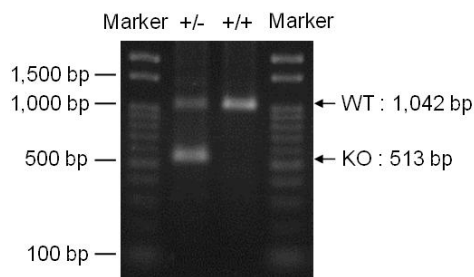
Enzyme	TaKaRa Ex Taq (Cat. No. RR001A)
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Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		17.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
DNA		1.0			
Taq		0.2			
total		25			

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	60*	*Repeat for 30 cycles
5	72	300	

Standard PCR



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	513 bp	KO
primer 1	1,042 bp	WT

Comment