PCR protocol

RBRC 01662 **Strain name** mGluR1 KO

Primer

	primer_name	primer_seq	length		
1	Pr22-FW	CATTTTGCCCAGGATGCCTGAC	22		Depositor's primer
2	WT_Rv	CAGCAATAGGCTTCTTAGTCCTGC	24		RIKEN BRC
3	EGFP5'	TGAACCGCATCGAGCTGAAGGG	22		Depositor's primer

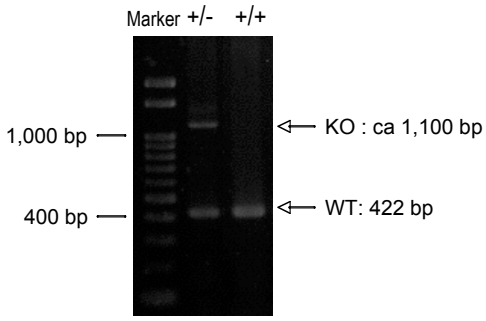
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		12.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
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	422 bp	WT
primer 2	primer 3	ca 1,100 bp	KO

Comment