RIKEN BRC

BRC_No 01661 **Strain name** mGluR1^{neo}

Primer

	primer_name	primer_seq	length	
1	EGFP-FW	TGGACGGCGACGTAAACGGC	20	
2	EGFP-RV	GACGTAGCCTTCGGGCATGG	20	
3	Pr22-FW	CATTTTGCCCAGGATGCCTGAC	22	
4	Pr21-RV	TCCGATGATGACATCTCCGTCC	22	

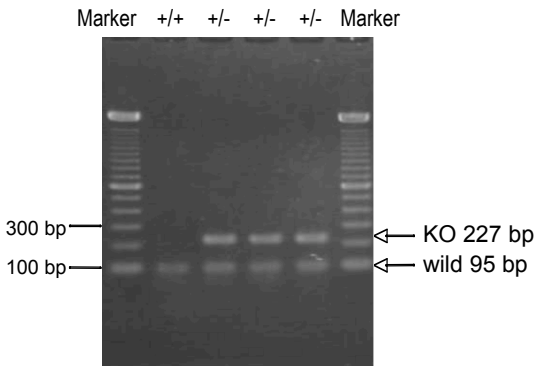
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3
H2O		15.3		
PCR buffer	10 X	2.5		
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		
primer 4	10 pmol/μl	1.0		
DNA		1.0		
Taq		0.2		
	total	25		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	60	30	*
4	72	60	* *Repeat for 35 cycles
5	72	300	



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	227 bp	KO
primer 3	primer 4	95 bp	wild

Comment