

# PCR protocol

RBRC 00045

Strain name B6C3Fe-a/a-ReIn<sup>d</sup>

Primer	primer_name	primer_seq	length	
1	Reelforw	TAATCTGTCCTCACTCTGCC	20	Brain Res. Mol. Brain Res. 39, 234-236 (1996).
2		ACAGTTGACATAACCTTAATC	20	Proc Natl Acad Sci U S A. 98(6):3477-82 (2001).
3	Reelrev2	TGCATTAATGTGCAGTGTGT	21	Brain Res. Mol. Brain Res. 39, 234-236 (1996).

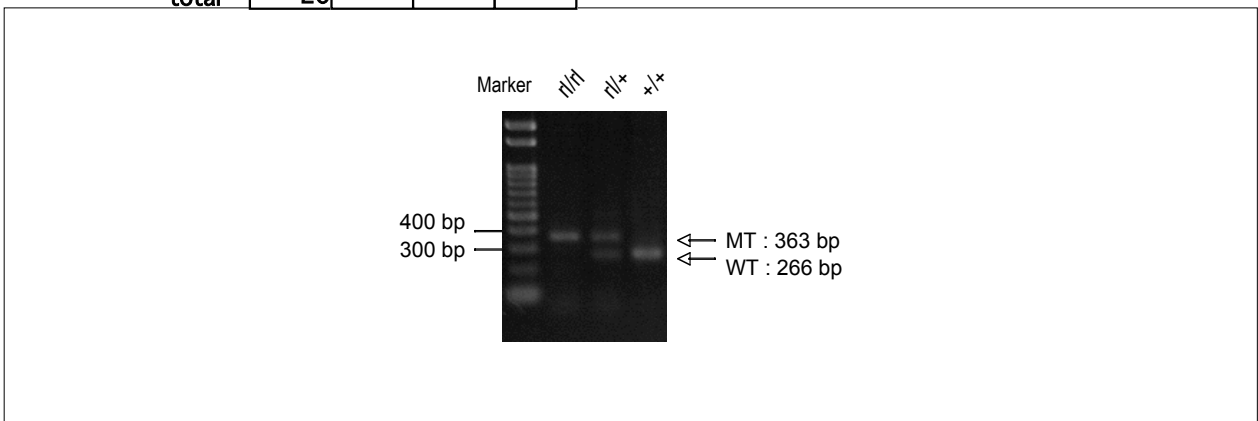
### Reaction Components

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/ $\mu$ l	1.0			
primer 2	10 pmol/ $\mu$ l	1.0			
primer 3	10 pmol/ $\mu$ l	1.0			
DNA		1.0			
Taq		0.1			
<b>total</b>		<b>20</b>			

### Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	57	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	266 bp	WT
primer 1 primer 3	363 bp	mutant

### Comment