

# PCR protocol

RBRC 02952

Strain name C57BL/6-Tg(CAG-Cacnb3,-EGFP)

Primer	primer_name	primer_seq	length	
1	Tg2	CATGTGATCGCGCTTCTCGTT	21	Depositor's primer
2	Tg1	GTAAACGGCCACAAGTTTACAGC	21	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

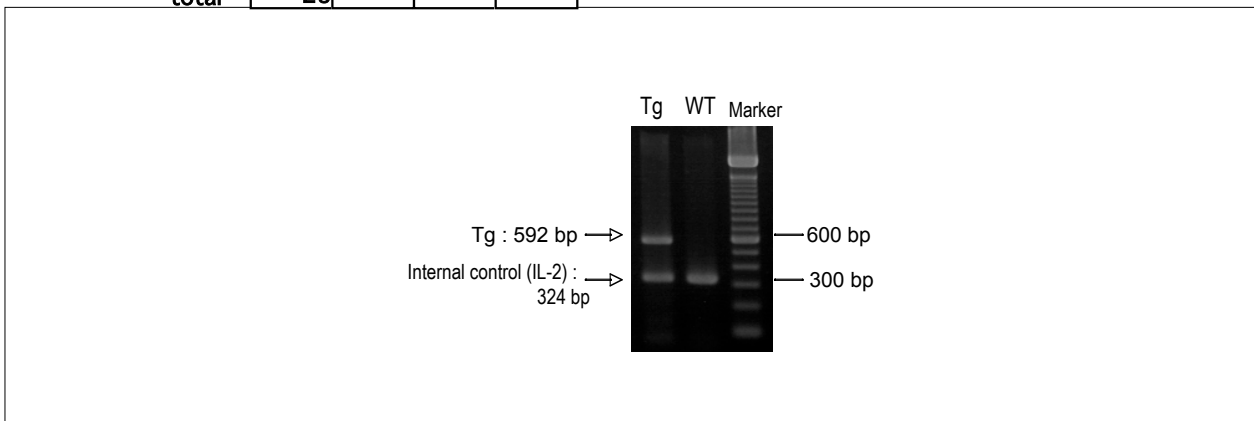
**Reaction Components**

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

**Reaction Conditions**

Conc	Run 1	Run 2	Run 3	Run 4
<b>H2O</b>	15.3			
<b>PCR buffer</b>	2.5			
<b>dNTP</b>	2.0			
<b>primer 1</b>	1.0			
<b>primer 2</b>	1.0			
<b>primer 3</b>	1.0			
<b>primer 4</b>	1.0			
<b>DNA</b>	1.0			
<b>Taq</b>	0.2			
<b>total</b>	<b>25</b>			

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	


**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	592 bp	Tg
primer 3	324 bp	Internal control (IL-2)

**Comment**