

# PCR protocol

RBRC 02867

Strain name B6.Cg-Tg(CAT-RhoK DN)4-9Koba

Primer	primer_name	primer_seq	length		
1	primer 1	ACTCATCTCAGAAGAGGATCTG	22		Depositor's primer
2		ttcattcagttctttctgatatttg	25		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

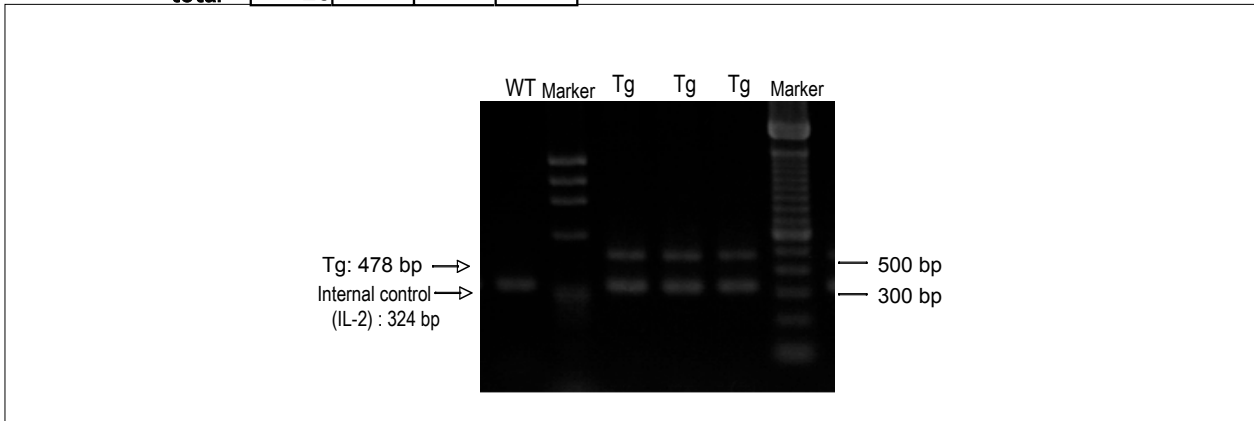
**Reaction Components**

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

**Reaction Conditions**

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		14.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/ $\mu$ l	2.0			
primer 2	10 pmol/ $\mu$ l	2.0			
primer 3	10 pmol/ $\mu$ l	0.5			
primer 4	10 pmol/ $\mu$ l	0.5			
DNA		1.0			
Taq		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	478 bp	Tg
primer 3	324 bp	Internal control (IL-2)

**Comment**