PCR protocol

RBRC 01708 **Strain name** B6;C-Tg(Mt1-RET)242Num

Primer

	primer_name	primer_seq	length	
1	RFP/RET(900~)	AAAATgCAgTCAgATATggA	20	
2	RFP/RET(~1500)	ACTCggggAggCgTTC	16	
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)

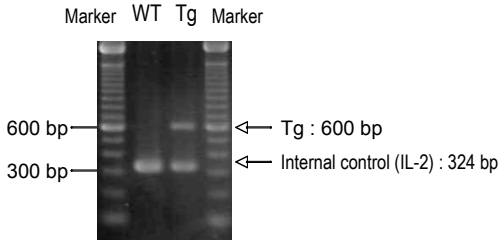
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
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	55	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	primer 2	600 bp	Tg
primer 3	primer 4	324 bp	internal control (IL-2)

Comment