PCR protocol

RBRC 02101 Strain name IAP-Q14gfp

Primer	primer_name	primer_seq	length
1	hrGFP-F1	CTGGTGGAGATCCGCAGCGACATCAACCTG	30
2	hrGFP-R2	GCCGCCGTCCTCCACGTAGGTCTTCTCCAG	30
3	oIMR0015	CAAATGTTGCTTGTCTGGTG	20
4	oIMR0016	GTCAGTCGAGTGCACAGTTT	20

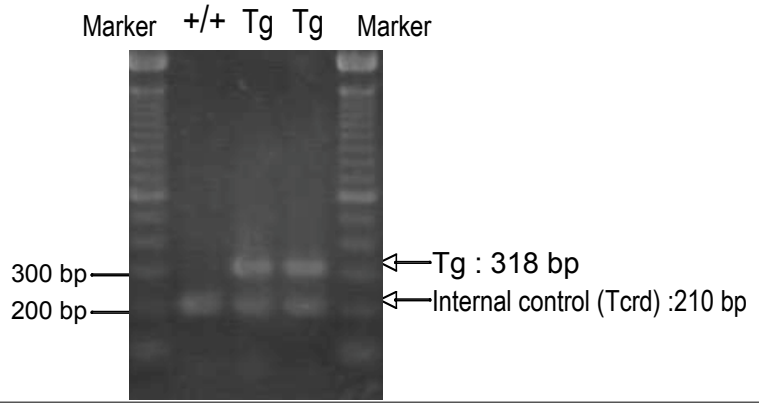
Reaction Components

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	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	primer 2	318 bp	Tg
primer 3	primer 4	210 bp	internal control (Tcrd)

Comment