



PCR protocol

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RBRC 02101

Strain name IAP-Q14gfp

Primer	primer_name	primer_seq	length	Reference
1	hrGFP-F1	CTGGTGGAGATCCGCAGCGACATCAACCTG	30	Depositor's primer
2	hrGFP-R2	GCCGCCGTCCCTCCACGTAGGTCTTCTCCAG	30	Depositor's primer
3	oIMR0015	CAAATGTTGCTTGTCTGGTG	20	Internal control (Tcrd) JAX Genotyping Protocol
4	oIMR0016	GTCAGTCGAGTGCACAGTTT	20	Internal control (Tcrd) JAX Genotyping Protocol

Reaction Components

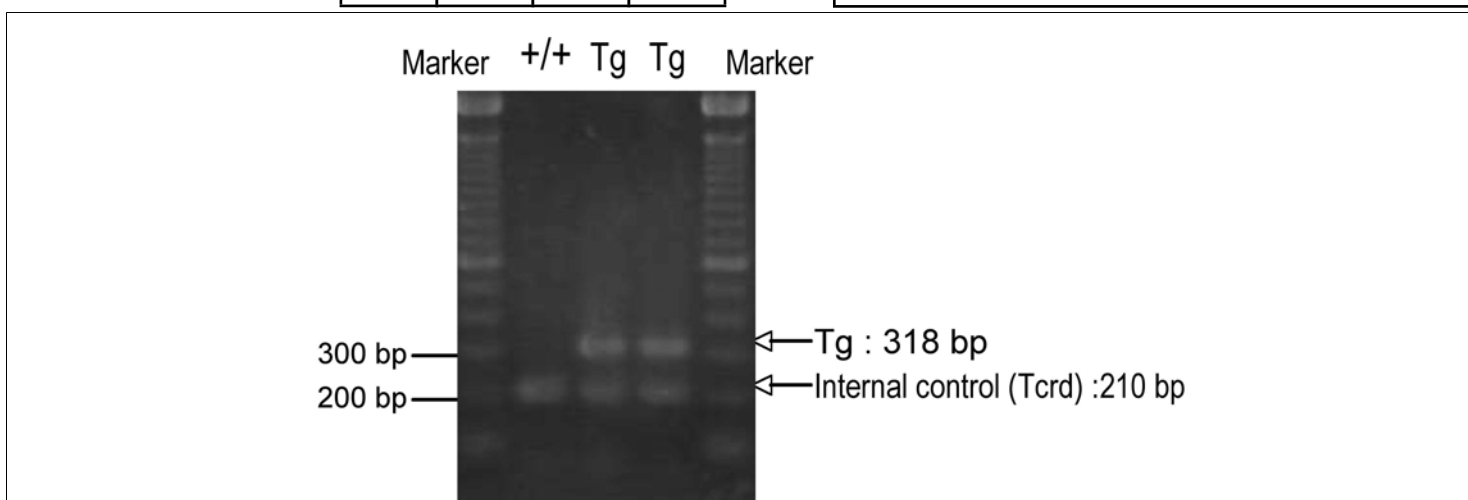
Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

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	

Reagent	Conc	Reaction 1	2	3	4	(μL)
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				

Marker	100 bp ladder (Invitrogen, Cat. 15628-050)
Gel	2% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)	
primer 1	primer 2	318 bp	Tg
primer 3	primer 4	210 bp	Internal control (Tcrd)

Comment Standard PCR