PCR protocol

Sheet ID PS_02403
Release date : 04/24/2013
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RBRC 01414 **Strain name** GFP-LC3#53 (B6D2) (C3H/HeN)

Primer	primer_name	primer_seq	length		
1		GGTGTTTGTTCCGTACACATCACC	24		RIKEN BRC
2		GGCAAAGCGGCAAACAACCATCAC	24		RIKEN BRC
3	C-B-ACTAT	GAGTGAAGCAGAACGTGGGGCTCACCTCGA	30		RIKEN BRC

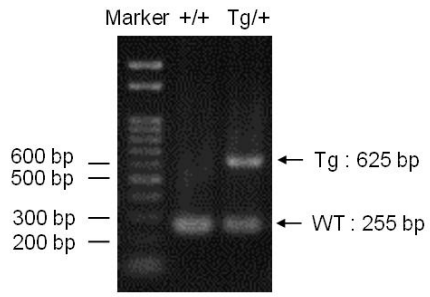
Reaction Components

Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.8			
PCR buffer	2 X	10.0			
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			
DNA		1.0			
Taq		0.2			
	total	20			

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

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 3	625 bp	Tg
primer 1	primer 2	255 bp	WT

Comment