

PCR protocol

RBRC 02032

Strain name B6C3F1-Tg(CAG/Acr-EGFP)CX-FM1390sb

Primer	primer_name	primer_seq	length	
1	acro	gtggagctttgtgaggtcacag	22	Acro
2	gfp	CAGCTTGCCGGTGGTGACAGATG	22	GFP
3	5CAG	CCTACAGCTCCTGGGCAACGTGC	23	
4	3CAG	AGCCAGAAGTCAGATGCTCAAGGGGC	26	
5	mLC3ex3GT	TGAGCGAGCTCATCAAGATAATCAGGT	27	
6	mLC3ex4AG	GTTAGCATTGAGCTGCAAGCGCCGTCT	27	

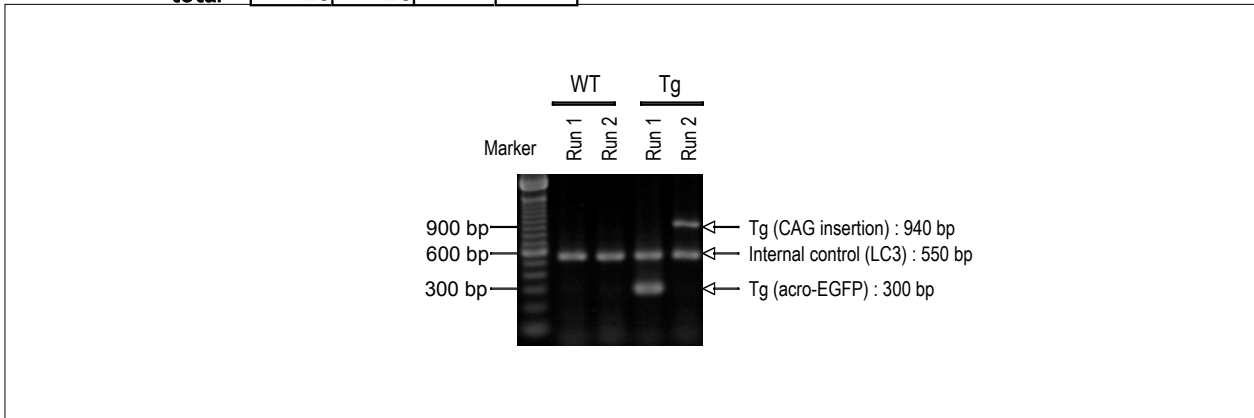
Reaction Components

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	

Conc	Run 1	Run 2	Run 3	Run 4
H2O	15.3	15.3		
PCR buffer	2.5	2.5		
dNTP	2.0	2.0		
primer 1	1.0	0		
primer 2	1.0	0		
primer 3	0	1.0		
primer 4	0	1.0		
primer 5	1.0	1.0		
primer 6	1.0	1.0		
DNA	1.0	1.0		
Taq	0.2	0.2		
total	25	25		



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	300 bp	acro-EGFP
primer 3 / primer 4	940 bp	CAG insertion 部位
primer 5 / primer 6	550 bp	internal control (LC3)

Comment