

PCR protocol

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RBRC 05702

Strain name C57BL/6J-Tg(CAG-XBP1/luc)23Tiw

Primer	primer_name	primer_seq	length	
1		GCTCTAGAGCCTCTGCTAACC	21	Depositor's primer
2	03926_R	TGTCCCTATCGAAGGACTCTGG	22	Proc. Natl. Acad. Sci. USA, 99(1):489-494
3	mLC3ex3GT	TGAGCGAGCTCATCAAGATAATCAGGT	27	Mol. Biol. Cell., 15, 1101-1111(2004).
4	mLC3ex4AG	GTTAGCATTGAGCTGCAAGCGCCGTCT	27	Mol. Biol. Cell., 15, 1101-1111(2004).

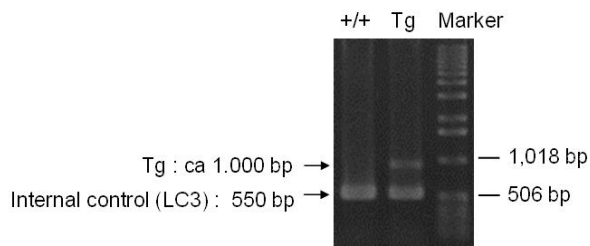
Reaction Components

Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
primer 4	10 pmol/ μ l	1.0			
DNA		1.0			
Taq	1 U/ μ l	0.2			
total		20			

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles



Marker

1 kb DNA ladder (Invitrogen, Cat. 15615-024)

Gel

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

PCR products

primer_set	product_size	product
primer 1	primer 2	ca 1,000 bp
primer 3	primer 4	550 bp

Comment Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.