

RBRC 06579

Strain name C57BL/6J-Tg(Thy1-G-CaMP7,-DsRed2)492Bsi

Primer	primer_name	primer_seq	length	Reference
1		GCTGGAATCAAAGGTGTGAGCTC	23	RIKEN BRC
2	DsRed2-R	TGCTCCACGATGGTGTAGTCC	21	Mol Neurodegener, 6:75 (2011).
3	mLC3ex4AG	GTTAGCATTGAGCTGCAAGCGCCGTCT	27	Mol. Biol. Cell., 15, 1101-1111(2004).
4	mLC3ex3GT	TGAGCGAGCTCATCAAGATAATCAGGT	27	Mol. Biol. Cell., 15, 1101-1111(2004).

Reaction Components

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

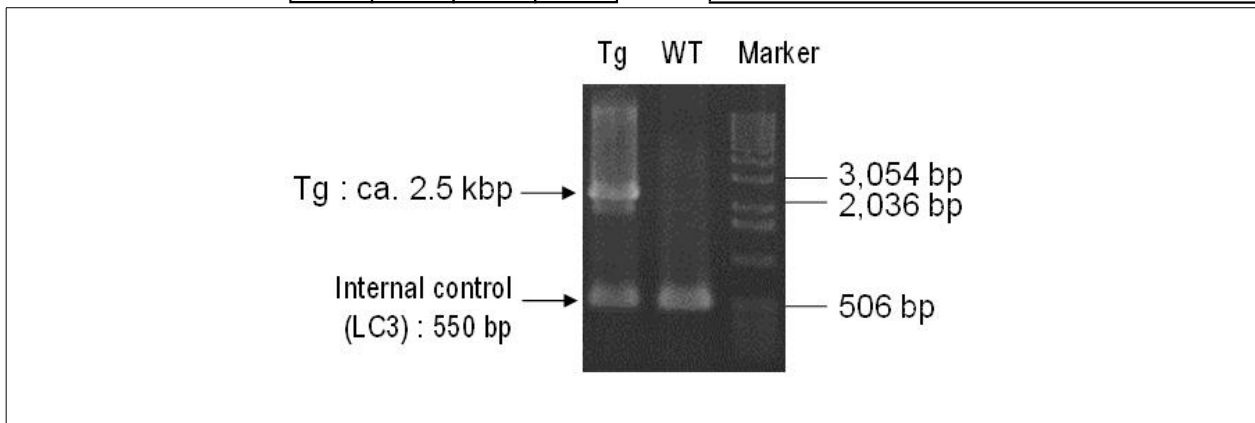
Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		0.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.5				
primer 2	10 pmol/ μ l	1.5				
primer 3	10 pmol/ μ l	0.5				
primer 4	10 pmol/ μ l	0.5				
DNA		1.0				
Taq	1 U/ μ l	0.2				
total		20				

Reaction Conditions

step	temp ($^{\circ}$ C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	180*	*Repeat for 30 cycles

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

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



primer_set	product_size	product (allele type)
primer 1 primer 2	ca. 2.5 kbp	Tg
primer 3 primer 4	550 bp	Internal control (LC3)

Comment [Standard PCR](#)

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