PCR protocol

Sheet ID PS_04944
Release date : 5/9/2022
Print date : 5/9/2022

RBRC 03914

Strain name C57BL/6-Tg(Myh6-mCherry/LC3)1Acvm

Primer	primer_name	primer_seq	length		Reference
1		CACATAGAAGCCTAGCCCACA	21		Proc Natl Acad Sci U S A. 1996 Sep 17;93 (19):10482-8
2	mCherry-LC3 R	CTTGTACAGCTCGTCCATGCCGCC	24		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
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	1 U/μl	0.2			
	total	20			

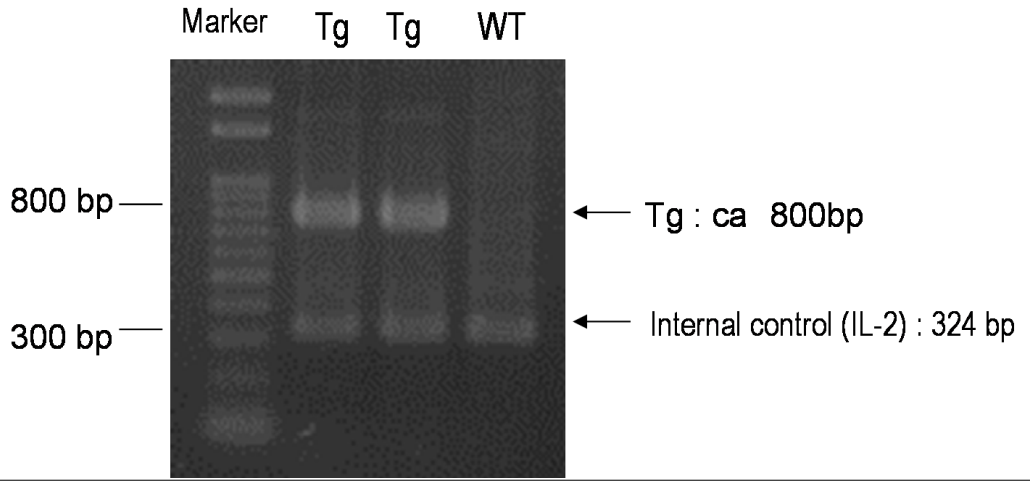
(μL)

Reaction Conditions

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

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	ca 800 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment

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

PCR protocol

Sheet ID PS_03154
Release date : 11/25/2010
Print date : 5/9/2022

RBRC 03914

Strain name C57BL/6-Tg(Myh6-mCherry/LC3)1Acvm

Primer	primer_name	primer_seq	length		Reference
1	mCherry-LC3 F	ATGGTGAGCAAGGGCGAGGAGGATAAC	27		Depositor's primer
2	mCherry-LC3 R	CTTGTACAGCTCGTCCATGCCGCC	24		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

Enzyme: TaKaRa Ex Taq (Cat. No. RR001A)

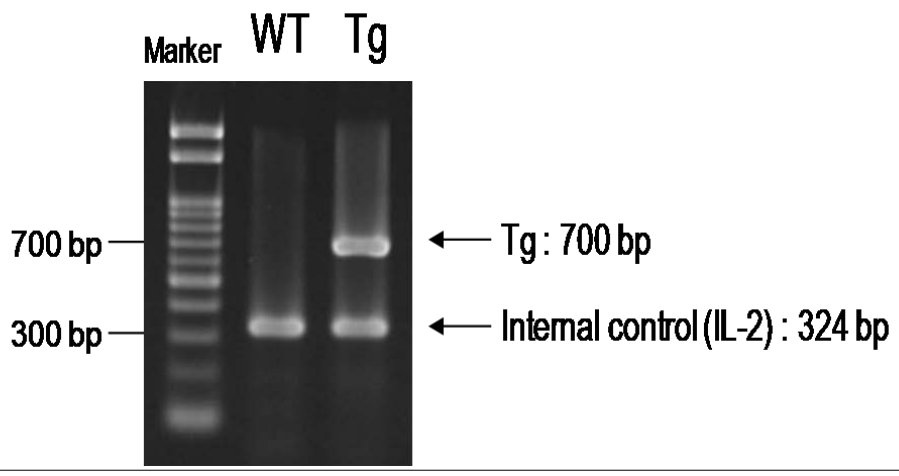
Reagent	Conc	Reaction 1	2	3	4	
H2O		11.3				(μL)
PCR buffer	10 X	2.0				
dNTP	2.5 mM	1.6				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.1				
	total	20				

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)



primer_set		product_size	product (allele type)
primer 1	primer 2	700 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment Standard PCR