PCR protocol

Sheet ID PS_05495
Release date : 5/9/2022
Print date : 5/9/2022

RBRC 02096

Strain name B6.Cg-Tg(CAG-floxed Neo-EGFP)REP08Osb

Primer	primer_name	primer_seq	length		Reference
1	P3	GCAACGTGCTGGTTGTTGTGCTGTCTCATC	30		Biochem. Biophys. Res. Commun. 321, 275–279 (2004).
2	P4	GGACTTGAAGAAGTCGTGCTGC	22		Biochem. Biophys. Res. Commun. 321, 275–279 (2004).
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 TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

Reagent	Conc	Reaction 1	2	3	4
H2O		2.9			
PCR buffer	2 X	10.0			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	1.5			
primer 2	10 pmol/μl	1.5			
primer 3	10 pmol/μl	0.5			
primer 4	10 pmol/μl	0.5			
DNA		1.0			
Taq	5 U/μl	0.1			
	total	20			

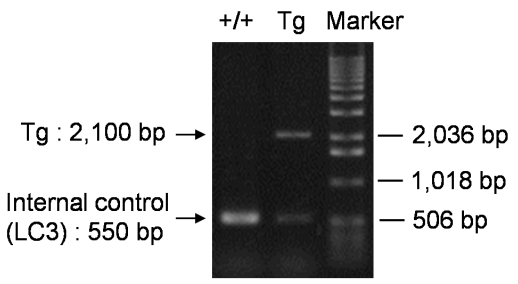
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	180*	*Repeat for 30 cycles
5	72	600	

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	2,100 bp	Tg
primer 3	primer 4	550 bp	Internal control (LC3)
primer 1	primer 2	300 bp	Tg (dNeo)

Comment Standard PCR

PCR protocol

Sheet ID PS_01499
Release date : 3/1/2008
Print date : 5/9/2022

RBRC 02096

Strain name B6.Cg-Tg(CAG-floxed Neo-EGFP)REP08Osb

Primer	primer_name	primer_seq	length		Reference
1	oIMR0872	AAGTTCATCTGCACCACCG	19		JAX Genotyping Protocol
2	#2	TGCTCAGGTAGTGGTTGTCG	20		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

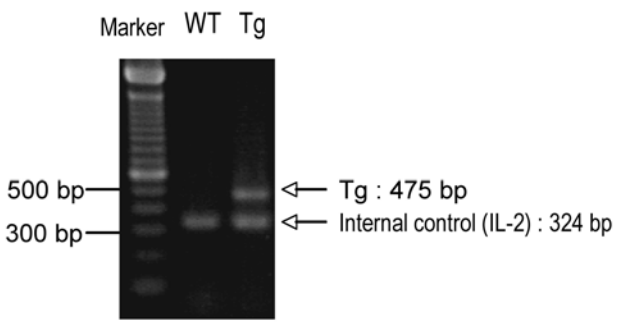
Reagent	Conc	Reaction 1	2	3	4	
H2O		15.3				(μL)
PCR buffer	10 X	2.5				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.2				
	total	25				

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

Comment Standard PCR

PCR protocol

Sheet ID PS_01000
Release date : 10/2/2007
Print date : 5/9/2022

RBRC 02096

Strain name B6.Cg-Tg(CAG-floxed Neo-EGFP)REP08Osb

Primer	primer_name	primer_seq	length		Reference
1	A	GAGCTAGCCACCATGGTGAGCAAGGGCGAG	30		Depositor's primer
2	B	TCACCTTGATGCCGTTCTTCT	21		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

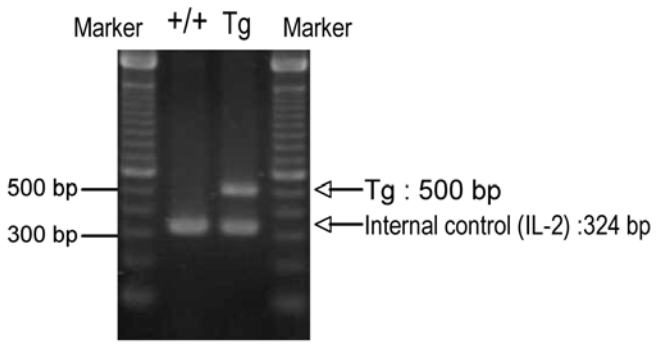
Reagent	Conc	Reaction 1	2	3	4	
H2O		15.3				(μL)
PCR buffer	10 X	2.5				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.2				
	total	25				

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

Comment Standard PCR