PCR protocol

Sheet ID PS_04894
Release date : 5/9/2022
Print date : 5/9/2022

RBRC 05207

Strain name C;B6D2-Tg(Prl3b1-AromEGFP)4Tysn

Primer	primer_name	primer_seq	length		Reference
1		TGGAACACTGCTGTGATGCGCCAG	24		RIKEN BRC
2	#2	TGCTCAGGTAGTGGTTGTCG	20		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

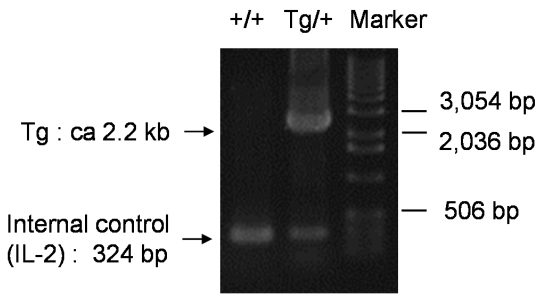
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.9				(μL)
PCR buffer	2 X GC I	10.0				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.1				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)		note
1	94	180		
2	94	30	*	
3	60	30	*	
4	72	120	*	*Repeat for 30 cycles
5	72	300		

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

Comment Standard PCR

PCR protocol

Sheet ID PS_04780
Release date : 07/04/2013
Print date : 5/9/2022

RBRC 05207

Strain name C;B6D2-Tg(Prl3b1-AromEGFP)4Tysn

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		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

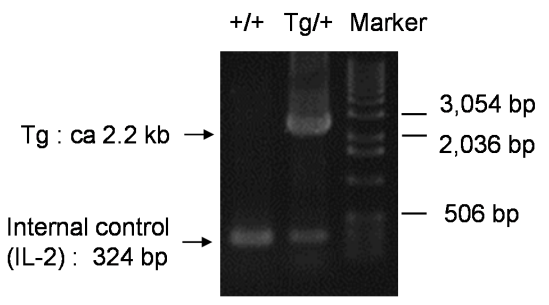
Reagent	Conc	Reaction 1	2	3	4	
H2O		11.3				(μL)
PCR buffer	10 X	2.0				
dNTP	2.5 mM	1.6				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	5 U/μl	0.1				
	total	20				

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

Comment Standard PCR