PCR protocol

Sheet ID PS_02974
Release date : 5/6/2022
Print date : 5/6/2022

RBRC 03079

Strain name C57BL/6-Reln<tm1.1Mhat>

Primer	primer_name	primer_seq	length		Reference
1	FLAG-KI-01	AGAATAAATCATACGTTCATTGGTG	25		Depositor's primer
2	Reln_03	GGACGCACTGACGTGAAGAC	20		RIKEN BRC

Reaction Components

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

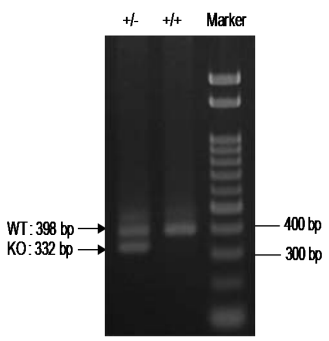
Reagent	Conc	Reaction 1	2	3	4	
H2O		4.8				(μL)
PCR buffer	2 X GC I	10.0				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	59	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	398 bp	WT
primer 1	primer 2	332 bp	KO

Comment

PCR protocol

Sheet ID PS_02349
Release date : 01/12/2010
Print date : 5/6/2022

RBRC 03079

Strain name C57BL/6-Reln<tm1.1Mhat>

Primer	primer_name	primer_seq	length		Reference
1	FLAG-KI-01	AGAATAAATCATACGTTCATTGGTG	25		Depositor's primer
2	FLAG-KI-02	CGTGAAGACATTTACTTATGTGCAG	25		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		17.3			
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			
DNA		1.0			
Taq		0.2			
	total	25			

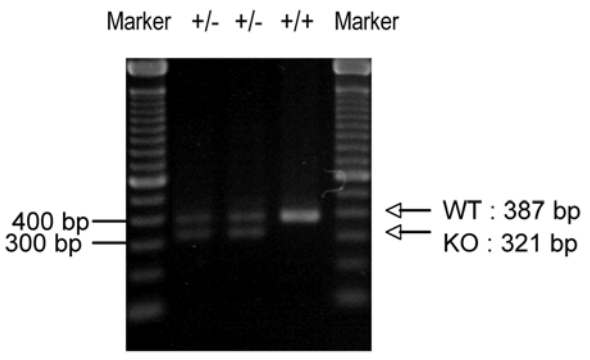
(μL)

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	387 bp	WT
primer 1	primer 2	321 bp	KO

Comment