PCR protocol

Sheet ID PS_08018
Release date : 4/15/2020
Print date : 4/15/2020

RBRC 00755

Strain name B6;129P2-Fcer2a<tm1Kik>/KikRbrc

Primer	primer_name	primer_seq	length		Reference
1	mCD23-5	GGCAGACTCAGAGATACGCAGATG	24		Depositor's primer
2	mCD23-3	GCACTGGGGATGGGACCCAGGGCAT	25		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		2.6			
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			
DNA		1.0			
Taq	1 U/μl	0.4			
total		20			

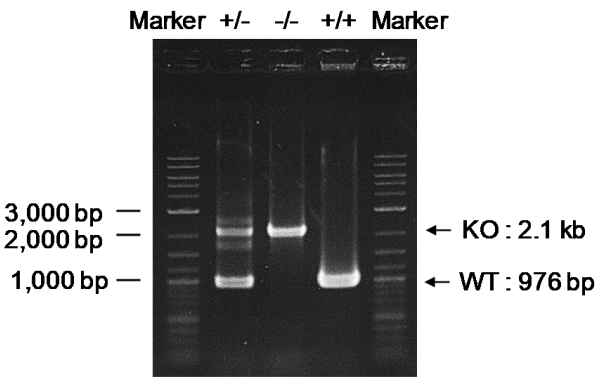
(μL)

Reaction Conditions

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

Marker: 2-Log DNA Ladder (NEB, Cat. N3200)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	976 bp	WT
primer 1	primer 2	2.1 kb	KO

+/+ (wild-type): 976 bp
+/- (heterozygous): 976 bp and 2.1 kb
-/- (homozygous): 2.1 kb

Comment Standard PCR

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

PCR protocol

Sheet ID PS_00525
Release date : 07/05/2011
Print date : 4/15/2020

RBRC 00755

Strain name CD23 Knockout mice

Primer	primer_name	primer_seq	length		Reference
1	mCD23-5	GGCAGACTCAGAGATACGCAGATG	24		Depositor's primer
2	mCD23-3	GCACTGGGGATGGGACCCAGGGCAT	25		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		2.8			
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			
DNA		1.0			
Taq	1 U/μl	0.2			
total		20			

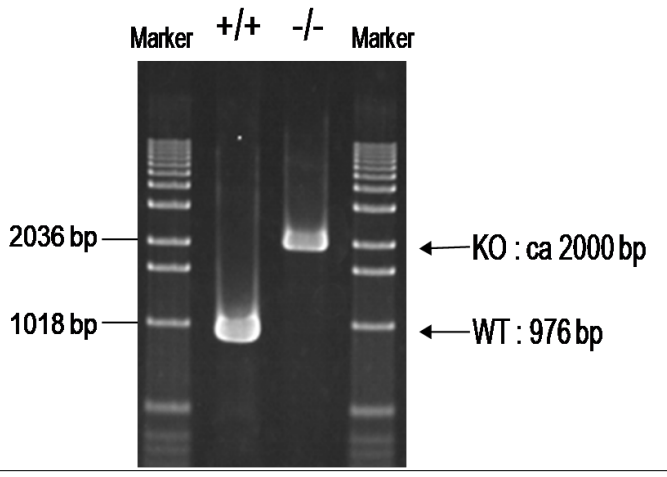
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	68	120*	*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	976 bp	WT
primer 1	primer 2	ca 2000 bp	KO

Comment Standard PCR