PCR protocol

Sheet ID PS_04818
Release date : 5/9/2022
Print date : 5/9/2022

RBRC 02176

Strain name B6.129S2-Clgn<tm1Osb>

Primer	primer_name	primer_seq	length		Reference
1	109	TCTTACCACAAAGCACCTCC	20		Depositor's primer
2	127	GCACAACAGGATGGATGATT	20		Depositor's primer
3	Neo	GCAATCCATCTTGTTCAATGGCC	23		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		12.3			
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			
DNA		1.0			
Taq	5 U/μl	0.1			
total		20			

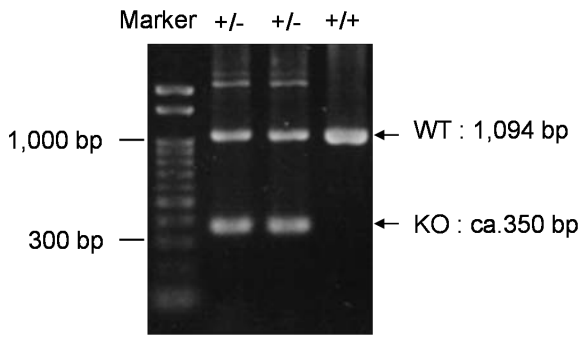
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30 *	
3	60	30 *	
4	72	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	1094 bp	WT
primer 1	primer 3	ca 350 bp	KO

Comment Standard PCR

PCR protocol

Sheet ID PS_01133
Release date : 06/29/2012
Print date : 5/9/2022

RBRC 02176

Strain name B6.129S2-Clgn<tm1Osb>

Primer	primer_name	primer_seq	length		Reference
1	127	GCACAACAGGATGGATGATT	20		Depositor's primer
2	109	TCTTACCACAAAGCACCTCC	20		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			

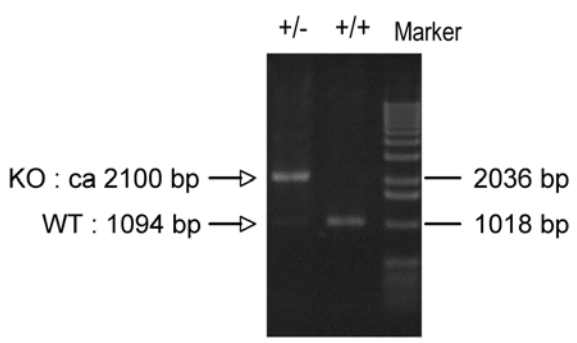
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	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	1094 bp	WT
primer 1	primer 2	ca 2100 bp	KO

Comment Standard PCR