PCR protocol

Sheet ID PS_06613
Release date : 9/28/2015
Print date : 9/28/2015

RBRC 05879 Strain name B6;129P2-Kcnj11<tm1Sse>

Primer	primer_name	primer_seq	length		
1	mBIRfw	TAGGCCAAGCCAGTGTAGTG	20		Depositor's primer
2	BIK-Tr1rc	GCCCTGCTCTCGAATGTTCT	20		Depositor's primer

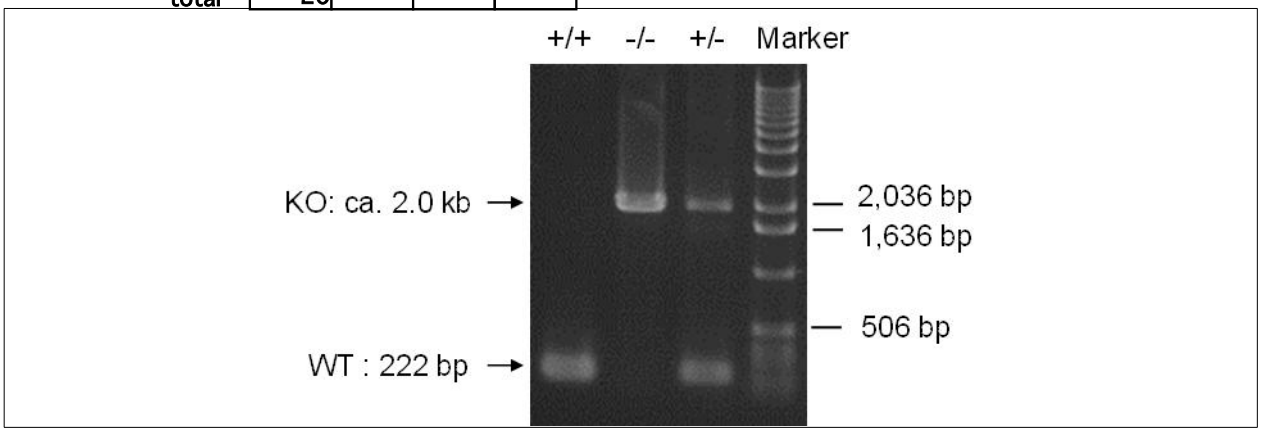
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.8			
PCR buffer	2 X	10.0			
dNTP	2 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			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	180	* *Repeat for 30 cycles



Marker

100 bp DNA Ladder (TAKARA, Cat. 3407A)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	222 bp	WT
primer 1	primer 2	ca. 2.0 kb	KO

Comment

PCR protocol

Sheet ID PS_05225
Release date : 11/21/2014
Print date : 9/28/2015

RBRC 05879 Strain name B6;129P2-Kcnj11<tm1Sse>

Primer	primer_name	primer_seq	length		
1	mBIRfw	TAGGCCAAGCCAGTGTAGTG	20		Depositor's primer
2	BIK-Tr1rc	GCCCTGCTCTCGAATGTTCT	20		Depositor's primer
3	KO1rc	GGAGGAGTAGAAGTGGCGC	19		Depositor's primer

Reaction Components

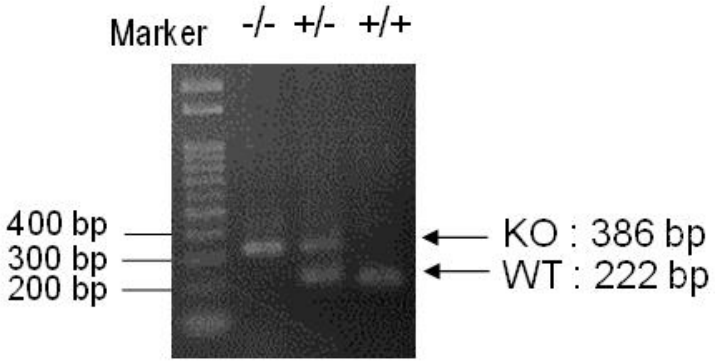
Enzyme: TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 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			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	63	30	*
4	72	60	* *Repeat for 30 cycles
5	72	300	

Standard PCR



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	222 bp	WT
primer 1	primer 3	386 bp	KO

Comment