PCR protocol

Sheet ID PS_07014
Release date : 5/6/2022
Print date : 5/6/2022

RBRC 09682

Strain name C57BL/6-A930003A15Rik<tm1Tfur>

Primer	primer_name	primer_seq	length		Reference
1	pro1_F	ATTAACCTAAACCTGAATAGCAGGC	25		RIKEN BRC
2	D15-WT31	TCTGGGGTCTGGGTCCTCGCATTGCCT	27		Depositor's primer
3	NEO2-31	TGGATACTTTCTCGGCAGGAGC	22		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.8			
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			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

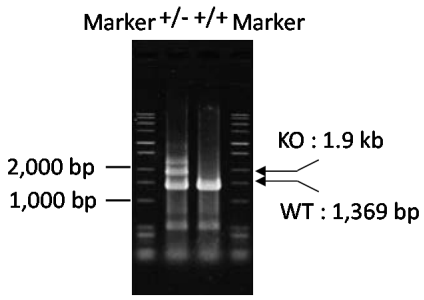
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	240*	*Repeat for 30 cycles

Marker: DNA Ladder,1 kb Plus (Affymetrix, Cat. 76714 500 UL)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	1,369 bp	WT
primer 1	primer 3	1.9 kb	KO

Comment Standard PCR

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

PCR protocol

Sheet ID PS_06983
Release date : 9/15/2016
Print date : 5/6/2022

RBRC 09682

Strain name C57BL/6-A930003A15Rik<tm1Tfur>

Primer	primer_name	primer_seq	length		Reference
1	exon2_F	CTGTGTGGGAATGTGGAGAGAG	22		RIKEN BRC
2	intron2_F	GCAATCAGGCACCTACACAGCC	22		RIKEN BRC
3	NEO2-51	GGCTATTCGGCTATGACTGGG	21		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.8			
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			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

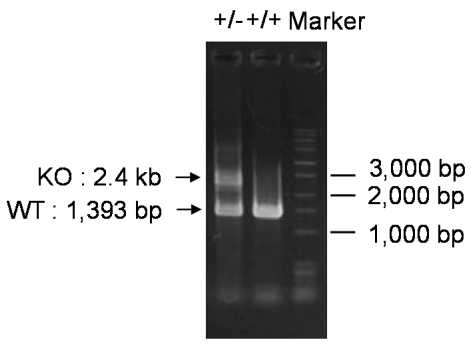
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	240*	*Repeat for 30 cycles

Marker: DNA Ladder,1 kb Plus (Affymetrix, Cat. 76714 500 UL)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	1,393 bp	WT
primer 2	primer 3	2.4 kb	KO

Comment Standard PCR

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