PCR protocol

Sheet ID PS_08318
Release date : 9/5/2022
Print date : 9/5/2022

RBRC 11601 **Strain name** C57BL/6J-Cndp2<em1Jufu>

Primer	primer_name	primer_seq	length		Reference
1	common	GTAGGTCAGCACAGGTTTGTGG	22		RIKEN BRC
2	WT	CTTCTCCGGCCATGCGGACAC	21		RIKEN BRC
3	MT	GGTGGCCATCCAGAGCATGG	20		RIKEN BRC
4	CNDP2_for_seq_a	CTGCTTCCCAATATCCACCA	20		Depositor's primer

Reaction Components

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

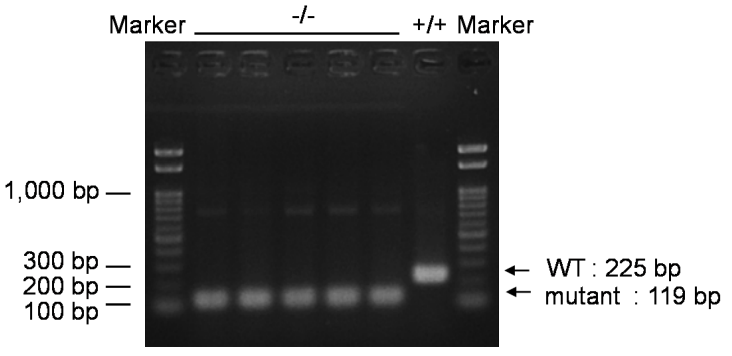
Reagent	Conc	Reaction 1	2	3	4	
H2O		0.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

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

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	225 bp	WT	
primer 3	primer 4	119 bp	mutant	

Comment Allele specific PCR (ASP)

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