

RBRC 09863

Strain name C57BL/6-Klhdc10<tm1Hijo>

Primer	primer_name	primer_seq	length	Reference
1	Int5-2	GCCGAAGAGAAGTCTCGCTGTGTCCG	25	Depositor's primer
2	geno3-2	CTCCTCTCCTTAATTTGGCACTCC	24	Depositor's primer
3	mt-f1	TTAAGGGCCAGCTCATTCTCCAC	25	EBioMedicine, 5, 82-92 (2016).

Reaction Components

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

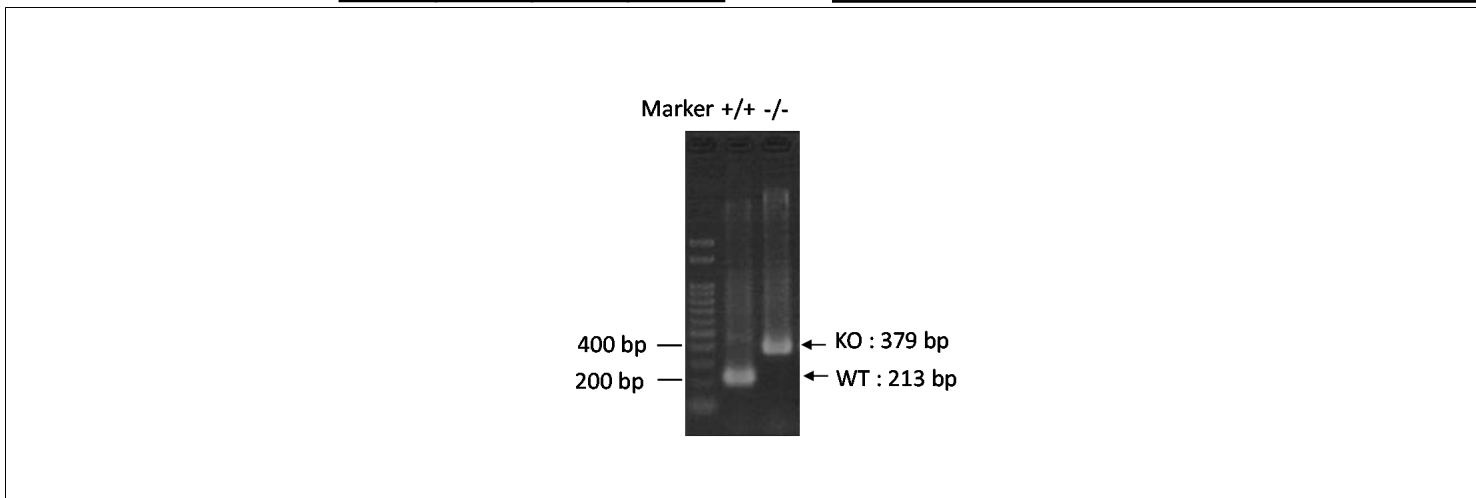
Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4	(μL)
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				

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	213 bp WT
primer 2	primer 3	379 bp KO

Comment

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