

RBRC 11512

Strain name B6;129P2-Utf1<tm1Okud>

Primer	primer_name	primer_seq	length	Reference
1	promoter	GGTCGCAACGACCAGGTTTCAG	21	RIKEN BRC
2	UTF1 3'	GAGTTGGCGGATCTGGTTAT	20	Depositor's primer
3	Neo_R	GTCCTGATAGCGGTCCGCCACAC	23	RIKEN BRC

Reaction Components

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

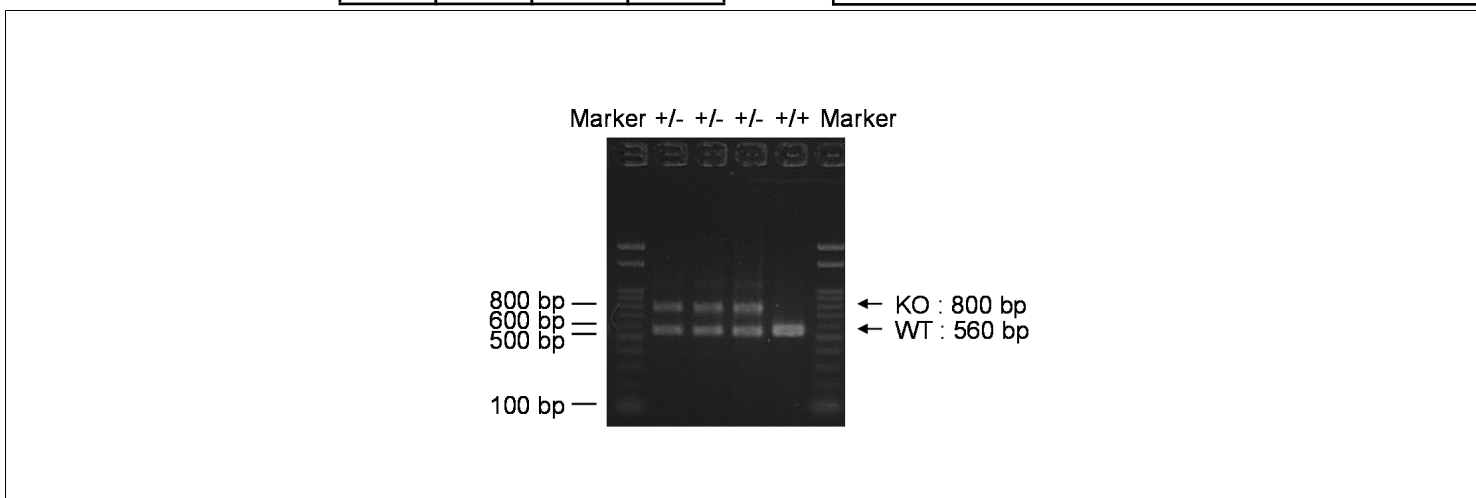
Reagent	Conc	Reaction 1	2	3	4
H2O		1.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
DNA		1.0			
Taq	1 U/ μ l	0.2			
total		20			

(μ L)

Reaction Conditions

step	temp (°C)	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	560 bp	WT
primer 1	primer 3	800 bp	KO

+/+ (wild-type): 560 bp
+/- (heterozygous): 560 bp and 800 bp

Comment Standard PCR

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