

RBRC 04801

Strain name B6.Cg-Kcp<tm1Ysas>/Rbrc

Primer	primer_name	primer_seq	length	Reference
1	Kcp-5'	GAGCTTGGAAGACTGCTATGGGTCA	25	Development, 133, 4463-4473 (2006).
2	Kcp-3'	AGCCTCTGCTTCACCGCTACTTAGG	25	Development, 133, 4463-4473 (2006).
3	Kcp-T	GGTTTCAGAGCCTGGTTCCTCAGAT	25	Development, 133, 4463-4473 (2006).

Reaction Components

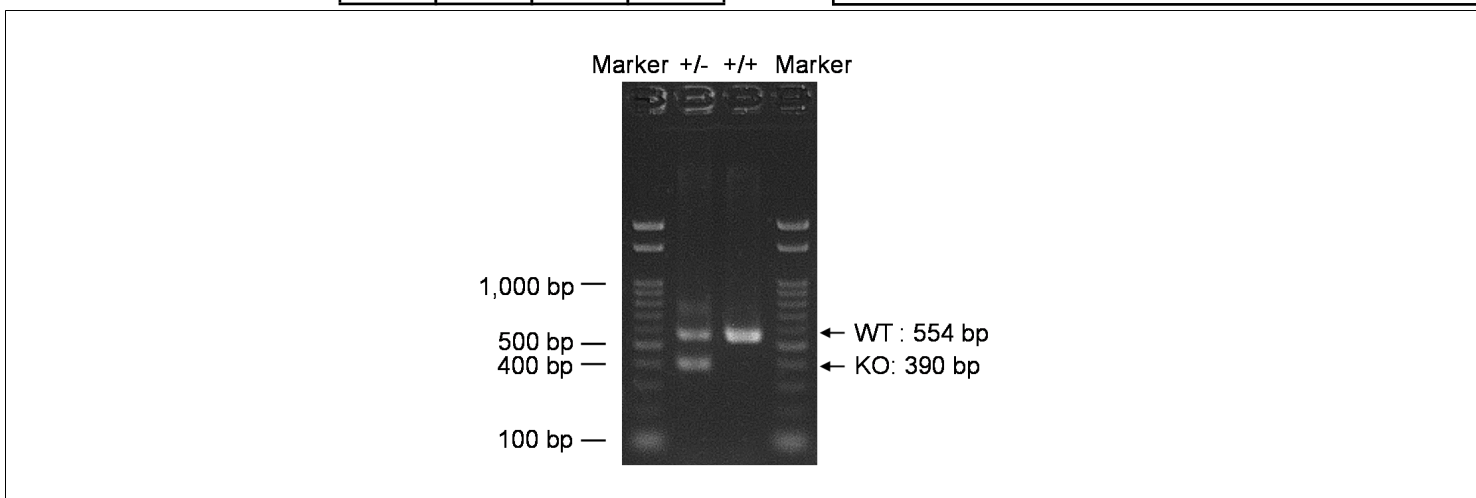
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

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			

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	554 bp	WT
primer 1	primer 3	390 bp	KO

+/+ (wild-type): 554 bp
+/- (heterozygous): 554 bp and 390 bp

Comment [Standard PCR](#)

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