

RBRC 11522

Strain name B6-Cd19<tm1.1(cre)Yoba>

Primer	primer_name	primer_seq	length	Reference
1	Common F	TGAAGAAGGTGGGTGTTTCTGCACTGTTTCTCGTTG	36	Sci. Rep., 11(1):5524 (2021).
2	WT R	ATCAAGGTCATTTCACTGACTGACACCATCTGGGATC	37	Sci. Rep., 11(1):5524 (2021).
3	KI R	TAGCAGACTTCTCTGCCCTCTCCGCTTCC	30	Sci. Rep., 11(1):5524 (2021).

Reaction Components

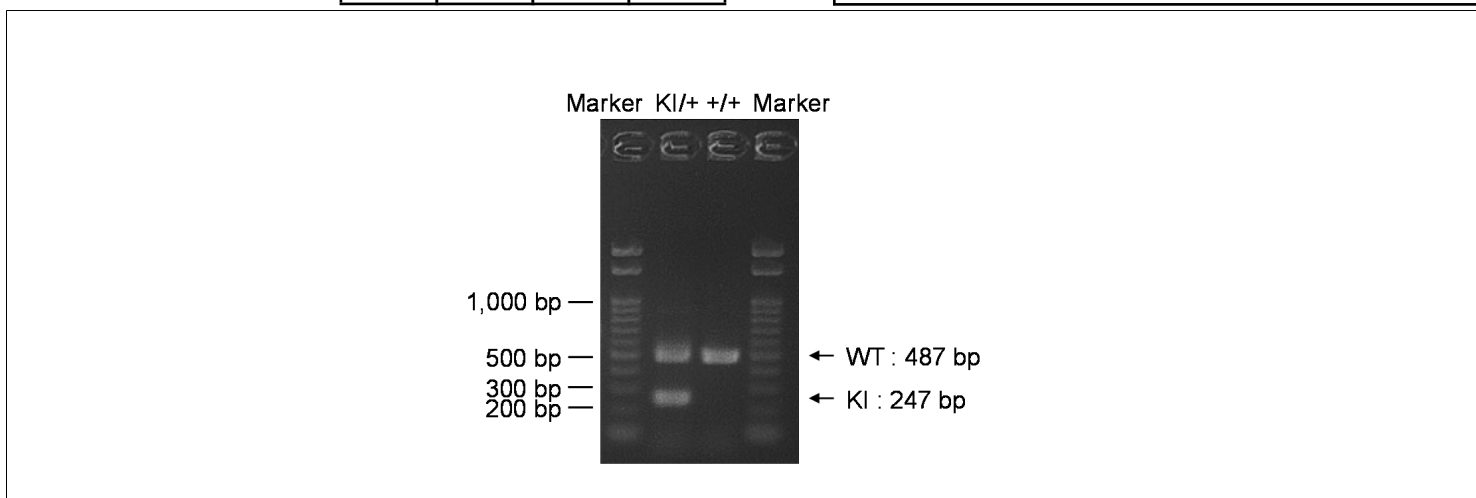
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

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	487 bp	WT
primer 1	primer 3	247 bp	KI

+/+ (wild-type): 487 bp
KI/+ (heterozygous): 487 bp and 247 bp

Comment [Standard PCR](#)

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