

RBRC 11161

Strain name C57BL/6N-Arg1^{<tm1.1(KikGR)Ksho>}

Primer	primer_name	primer_seq	length	Reference
1	130620 Arg1 WT F715	GACTTAAATCCTGGAAAAGGTGAGCAC	27	Depositor's primer
2	intron 1	CAGACACAGGTGATCTACATCCAG	24	RIKEN BRC
3	KikGR_AS	CGCCCTCCATCCTCAGCTCGATCTTC	26	Depositor's primer

Reaction Components

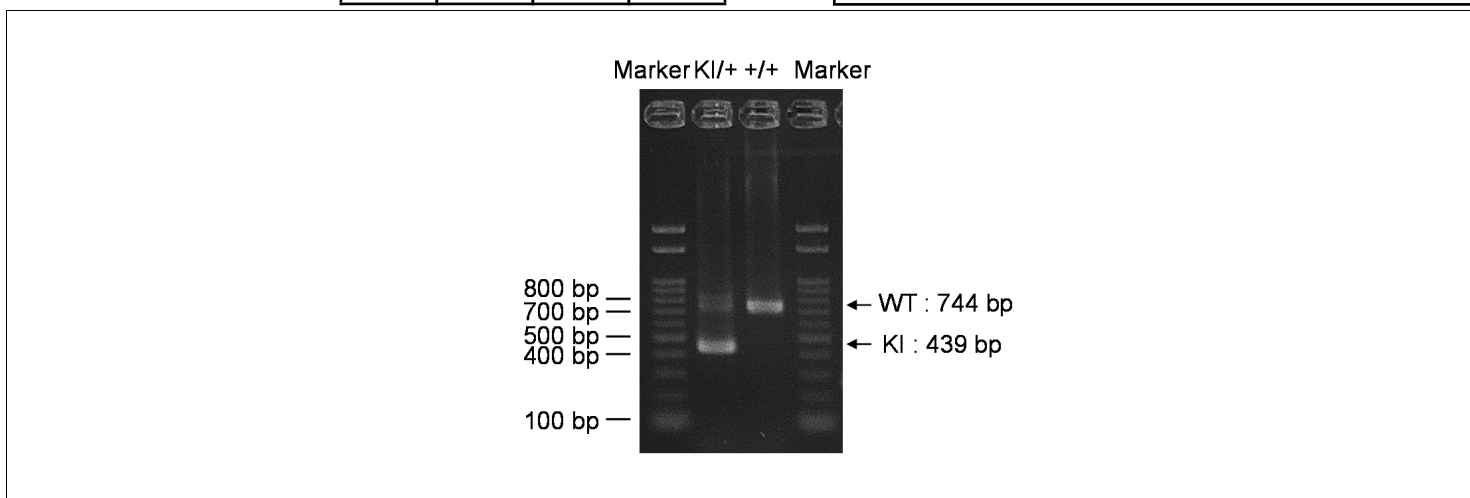
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

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	744 bp	WT	+/+ (wild-type): 744 bp KI/+ (heterozygous): 744 bp and 439 bp
primer 1 / primer 3	439 bp	KI	

Comment Standard PCR

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