PCR protocol

Sheet ID PS_08299
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RBRC 11437 **Strain name** B6.129S6-Islr<tm1.1(ZsGreen/DTR/cre)Mat>

Primer	primer_name	primer_seq	length		Reference
1	Meflin-WT forward	ACACACGACCTTGGCAAGTCCCAGC	25		Circ. Res., 125(4):414-430 (2019).
2	Meflin-WT Reverse	GTCTGCAATCTGGAAGCCATACTTCTCC	28		Circ. Res., 125(4):414-430 (2019).
3	Meflin-ZDC reverse	TTGAAGTAGTCGACGATGTCCTGG	24		Circ. Res., 125(4):414-430 (2019).

Reaction Components

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

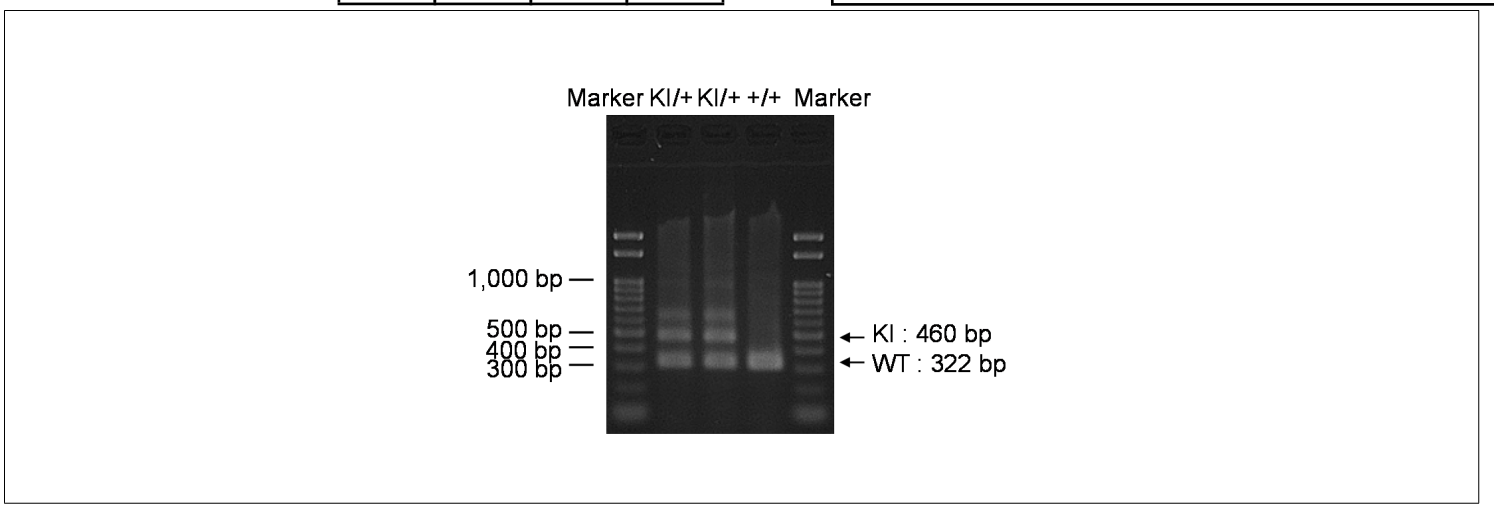
Reagent	Conc	Reaction 1	2	3	4	
H2O		1.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	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	322 bp	WT	+/+ (wild-type): 322 bp KI/+ (heterozygous): 322 bp and 460 bp
primer 1	primer 3	460 bp	KI	

Comment Standard PCR

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