

RBRC 10694

Strain name C57BL/6-Grp<tm1.1(icre)Himo>

Primer	primer_name	primer_seq	length	Reference
1	Gic1	GTCTGAGAGCTCTGAGGGTTT	20	eLife 7, e34135 (2018).
2	Gic2	GATTTTCATGATCGGGACACTTACCCA	26	eLife 7, e34135 (2018).
3	Gic3	GGTACAGGAGGTAGTCCCTCACATC	25	eLife 7, e34135 (2018).

**Reaction Components**

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

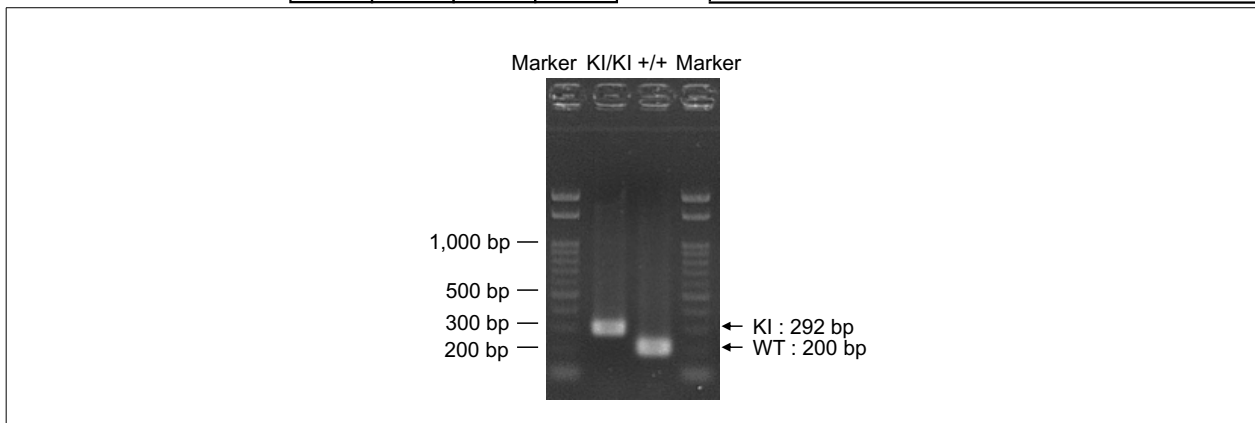
Reagent	Conc	Reaction 1	2	3	4	( $\mu$ L)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ $\mu$ l	1.0				
primer 2	10 pmol/ $\mu$ l	1.0				
primer 3	10 pmol/ $\mu$ l	1.0				
DNA		1.0				
Taq	1 U/ $\mu$ l	0.2				
<b>total</b>		<b>20</b>				

**Reaction Conditions**

step	temp ( $^{\circ}$ 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	200 bp	WT	+/+ (wild-type): 200 bp KI/KI (homozygous): 292 bp
primer 1 / primer 3	292 bp	KI	

Comment Standard PCR

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