

RBRC 10469

Strain name B6.129-Scn2a<tm1.1Kzy>

Primer	primer_name	primer_seq	length	Reference
1	2acoKO_dlox_F2	TGTCTCAGATCCCCTATTGCT	21	Commun. Biol., 1, Article number: 96 (2018).
2	2AR102XdfrtR1	CTTGGTAACTTTGCCGAGTC	20	Commun. Biol., 1, Article number: 96 (2018).

### Reaction Components

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

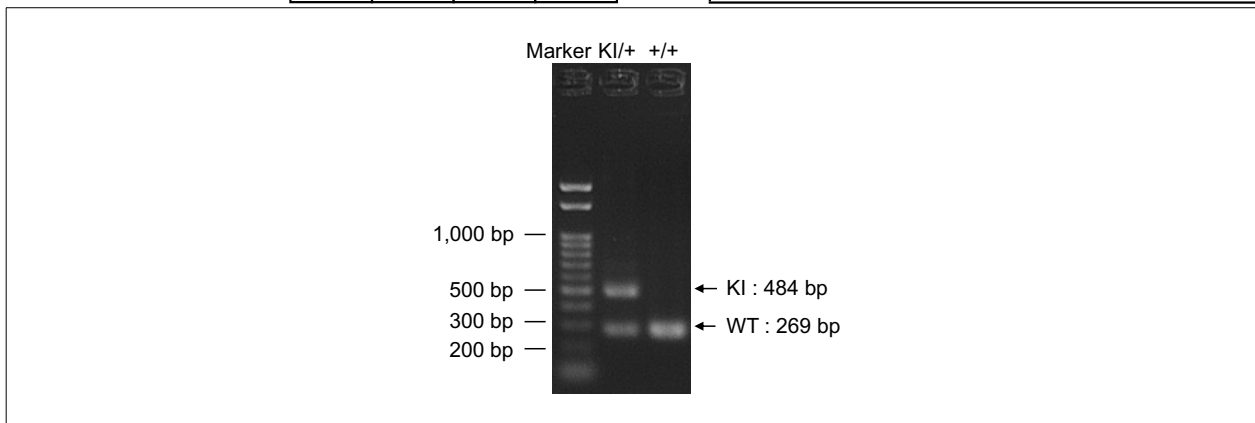
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.8				( $\mu$ L)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ $\mu$ l	1.0				
primer 2	10 pmol/ $\mu$ l	1.0				
DNA		1.0				
Taq	1 U/ $\mu$ l	0.2				
<b>total</b>		<b>20</b>				

### 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	primer 1	primer 2	product_size	product (allele type)	
primer 1	primer 1	primer 2	269 bp	WT	+/+ (wild-type): 269 bp KI/+ (heterozygous): 269 bp and 484 bp
primer 1	primer 1	primer 2	484 bp	KI	

**Comment** [Standard PCR](#)

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