PCR protocol

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RBRC 02292 **Strain name** B6.129S2-Gcnt2<tm1Tmu>

Primer	primer_name	primer_seq	length		
1	IGnT-Sens	GATTGTAGGTCATTCCAGATAGAGTCA	27		Mol. Cell. Biol., 25, 7828-7838 (2005)
2	IGnT-Anti	TCACAGGTTCCAGACCCACACAGTAGC	27		Mol. Cell. Biol., 25, 7828-7838 (2005)

Reaction Components

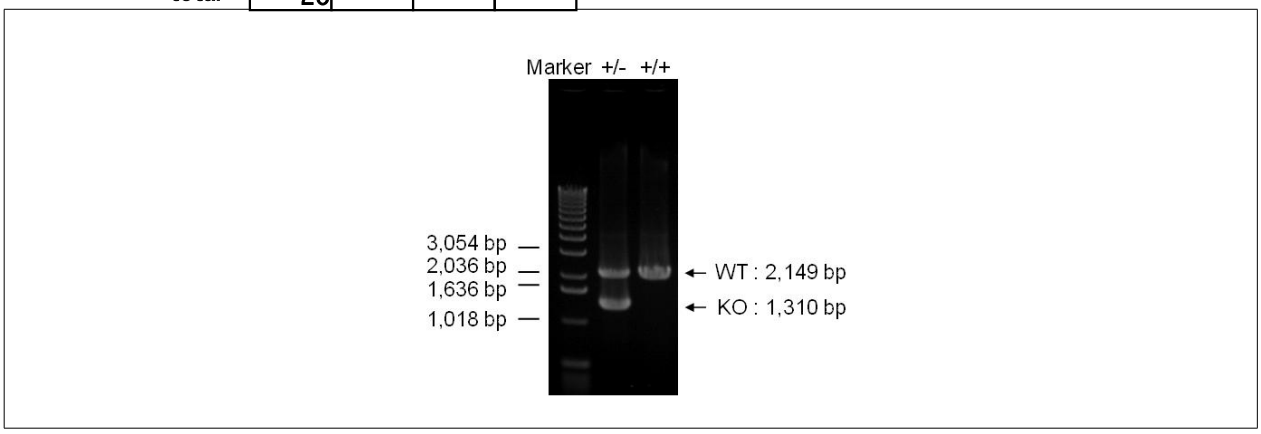
Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		4.8			
PCR buffer	2 X GC I	10.0			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
DNA		1.0			
Taq	5 U/μl	0.2			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	120*	*Repeat for 30 cycles
5	72	300	

Standard PCR



Marker
1 kb DNA ladder (Invitrogen, Cat. 15615-024)

Gel
1% agarose in 1 X TAE (100 V, 30 min)

PCR products	primer_set	product_size	product
primer 1	primer 2	2,149 bp	WT
primer 1	primer 2	1,310 bp	KO

Comment