PCR protocol

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RBRC 05545 Strain name C.129S4-Tecpr1<tm1>

Primer	primer_name	primer_seq	length		
1	WT/KO-F1	AGGTGCACATGAGGGTTAGC	20		Depositor's primer
2	WT for Exon2-R1	CCCCTCCAAAATTCTCATCC	20		Depositor's primer
3	Dcir KO	CATTATACGAAGTTATCTCGAGTCGC	26		Depositor's primer

Reaction Components

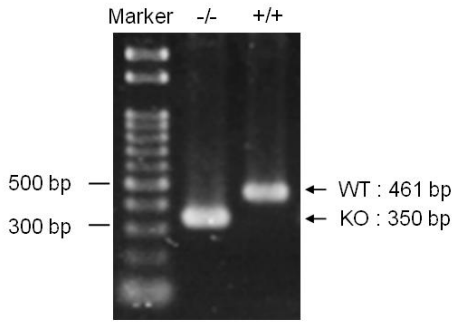
Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		12.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
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	5U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	65	30	*
4	72	60	* *Repeat for 30 cycles
5	72	300	

Standard PCR



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	461 bp	WT
primer 1	primer 3	350 bp	KO

Comment