PCR protocol

RBRC 04371 **Strain name** B6;129-Tdrd1<tm1Chum>

Primer

	primer_name	primer_seq	length		
1	04371_Fw	CACCTATGCTTATAGTTCAGCTGC	24		RIKEN BRC
2	Tdrd1_Rv	CACCGAACTGTCCTCCTGACTAGC	24		RIKEN BRC
3	3Neo	CGGCCACAGTCGATGAATCC	20		Proc. Natl. Acad. Sci. USA, 94, 13069-13074 (1997).

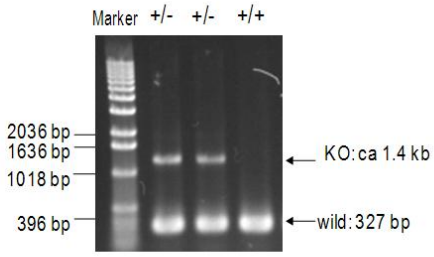
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		4.3			
PCR buffer	2 X GC I	10.0			
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	60	30	*
4	72	90	* *Repeat for 30 cycles
5	72	300	



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	327 bp	WT
primer 1	primer 3	ca 1.4 kbp	KO

Comment