PCR protocol

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RBRC 05498 Strain name B6.129P2-Samd9l<tm1Homy>

Primer	primer_name	primer_seq	length		
1	Gene-F1	CATTTATGGCAGAGAGATAGAGCTTCTGGG	30		Depositor's primer
2	Gene-R1	GGGTGGCAATTAGAGGGTGAATGATACGTA	30		Depositor's primer
3	Neo_F2	GACCGACCTGTCCGGTGCCCTG	22		RIKEN BRC

Reaction Components

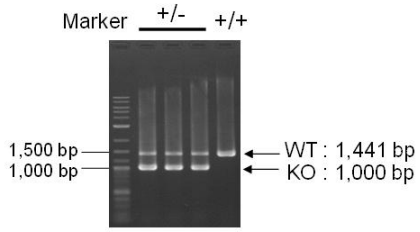
Enzyme: TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.9			
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			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq	5 U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	65	30	*
4	72	120	* *Repeat for 30 cycles
5	72	300	

Standard PCR



Marker
2-Log DNA Ladder (NEB, Cat. N3200)

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

PCR products	primer_set	product_size	product
primer 1	primer 2	1,441 bp	WT
primer 3	primer 2	1,000 bp	KO

Comment