PCR protocol

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RBRC 09517 **Strain name** C57BL/6J-Inhbc<em1Ohm>

Primer	primer_name	primer_seq	length		
1		GGCGAGGATGAAGTCAGAAGC	21		RIKEN BRC
2	WT	GGCTCTTCTGTTCCTGACTCCAACTA	26		RIKEN BRC
3	MT	GGCTCTTCTGTTCCTGACTCCAACTC	26		RIKEN BRC

Reaction Components

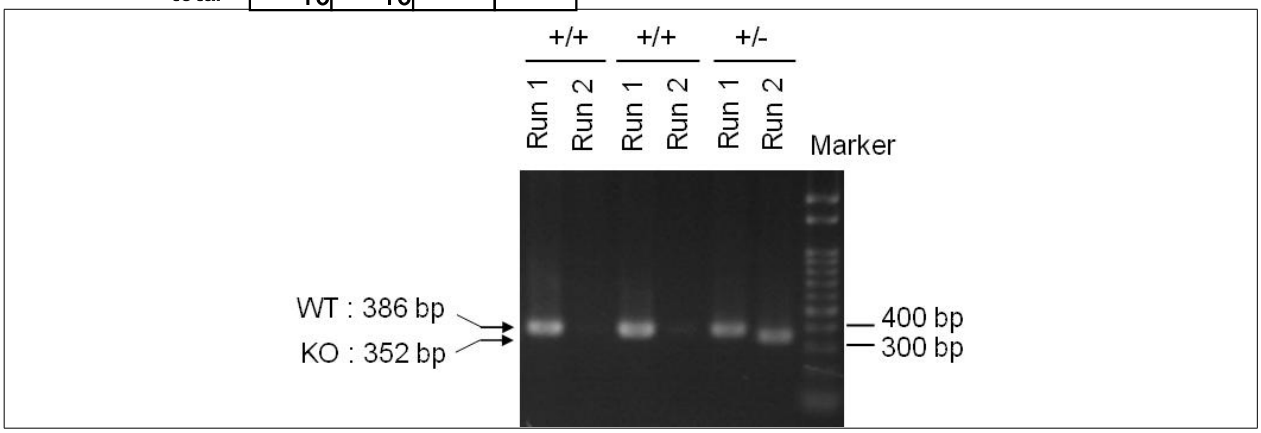
Enzyme QIAGEN Multiplex PCR Kit (Cat. No. 206143)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.0	2.0		
Master Mix	2 X	5.0	5.0		
primer 1	10 pmol/μl	1.0	1.0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
	total	10	10		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	95	900	
2	94	30*	
3	63	90*	
4	72	60*	*Repeat for 30 cycles
5	72	600	

Separated 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	386 bp	WT
primer 1	primer 3	352 bp	KO

Comment