PCR protocol

RBRC 00903 **Strain name** PD-1-KO-N10 (BALB/c)

Primer	primer_name	primer_seq	length		
1	PDwt5	GCCAGCTAAGAGGCCACAGCTA	22		
2	PD970R	CGGTGCTCTCTGTGGAGGGTCTG	23		
3	mPD-1KO31	TTGTGTAGCGCCAAGTGCCCAGCG	24		

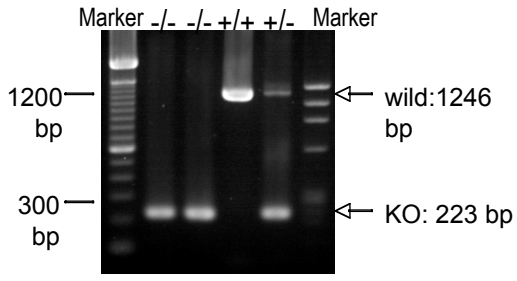
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		16.3			
PCR buffer	10 X	2.5			
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		0.2			
		total	25		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	66	30*	
4	72	60*	*Repeat for 35 cycles
5	72	300	



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	1246 bp	WT
primer 2	primer 3	223 bp	KO

Comment