PCR protocol

RBRC 03435 **Strain name** Arx-1 KO

Primer

	primer_name	primer_seq	length		
1	mArx fff	CGCCCAAGGAAGAGCTGTTGCTGC	24		Depositor's primer
2	pMC1neo stop f	GCCTTCTTGACGAGTTCTTC	20		Depositor's primer
3	mArx eer	TATTCCACCCTCCTGGACCCTTTC	24		Depositor's primer

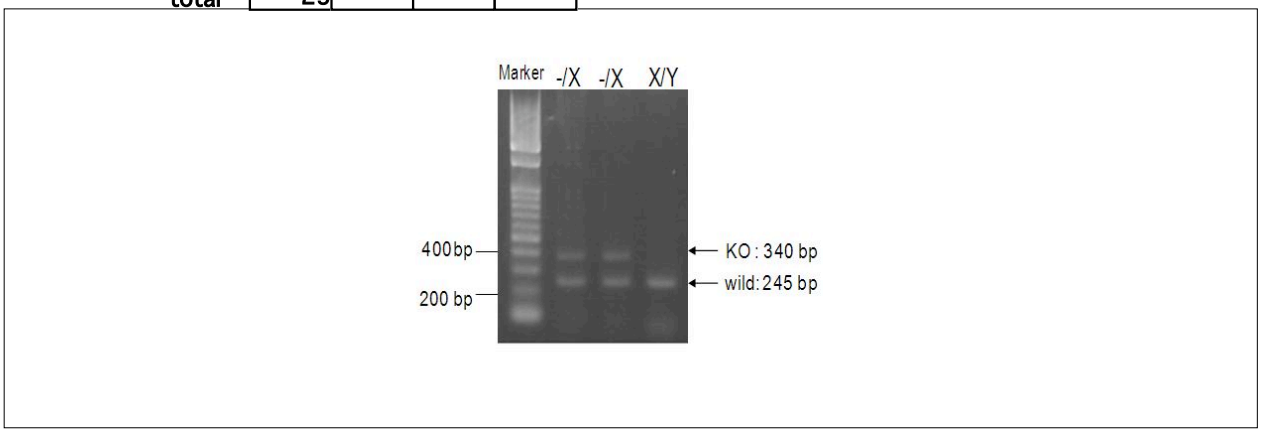
Reaction Components

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	5U/μl	0.2			
	total	25			

Reaction Conditions

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



Marker

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

Gel

2% agarose in 1 X TAE (100 V, 35 min)

PCR products

primer_set		product_size	product
primer 1	primer 3	245 bp	WT
primer 2	primer 3	340 bp	KO

Comment