PCR protocol

RBRC 01253 **Strain name** GOPC Knockout mouse

Primer	primer_name	primer_seq	length		
1	GT1	GATTAAAGCCAGAAAGTGGGGCCAG	25		Depositor's primer
2	GT2	CGGCAGGTGTGTAAAATGGCTCTGC	25		Depositor's primer
3	LZF1	GAGGGGTTTTTCACAGACCGCTTTC	25		Depositor's primer

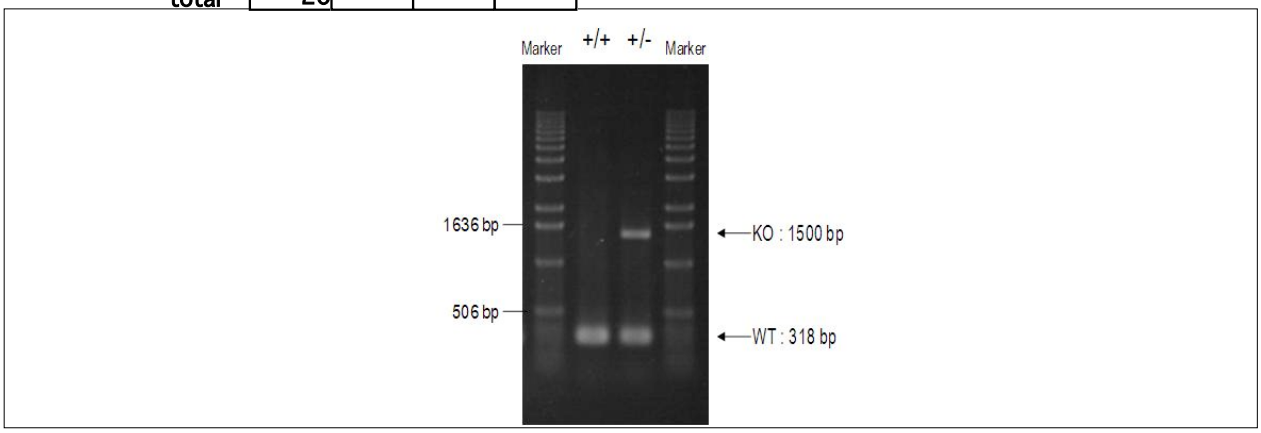
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		4.4			
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	0.5			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq		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 3	1500 bp	KO
primer 1	primer 2	318 bp	WT

Comment