

# PCR protocol

 RBRC 01893      Strain name mMgl2 knockout mice (C57BL/6J)

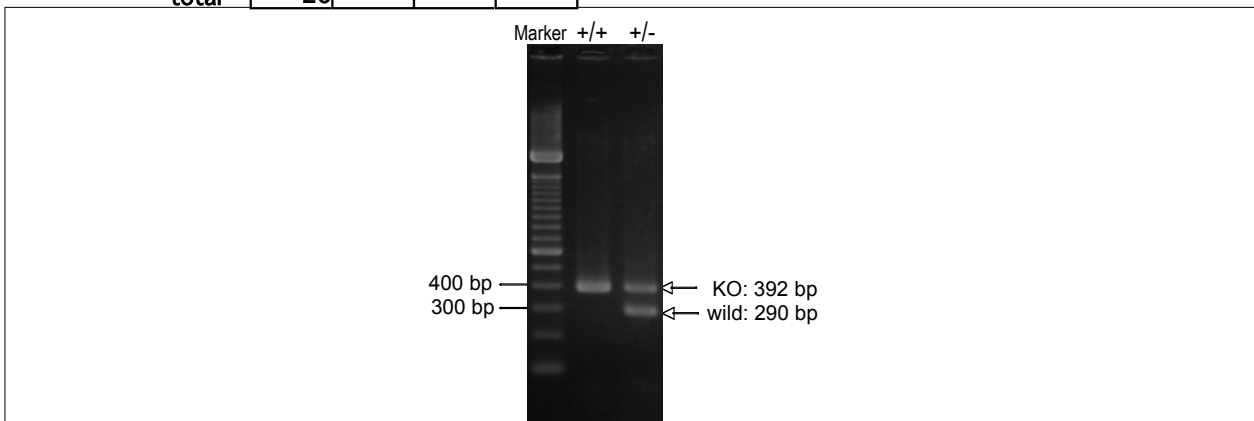
Primer	primer_name	primer_seq	length
1	ShortA1-s2	GCTCCAACCTTTACCTCCAACCTTCA	24
2	Deletion1-as2	TAGGGTTTCAGTTAGGGTGTATGTC	24
3	Neo3s1	ATGCGGTGGGCTCTATGGCTTC	22

**Reaction Components**

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.8			
PCR buffer	2 X GC I	10.0			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/ $\mu$ l	1.0			
primer 2	10 pmol/ $\mu$ l	1.0			
primer 3	10 pmol/ $\mu$ l	1.0			
DNA		1.0			
Taq		0.2			
<b>total</b>		<b>20</b>			

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	60*	*Repeat for 30 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		product_size	product
primer_1	primer_2		
primer 1	primer 2	392 bp	wild
primer 1	primer 3	290 bp	KO

Comment