

# PCR protocol

RBRC 01891

Strain name mMgl1 knockout mice (C57BL/6J)

Primer	primer_name	primer_seq	length
1	mMGT_3'Long	CTCAGGTTCCCTCTGTGCCAGC	22
2	NEO_3's3	GACGAGTTCTTCTGAGGGG	19
3	mMGT_5'UT	GCGGTTATTGGATCTCCTGG	20

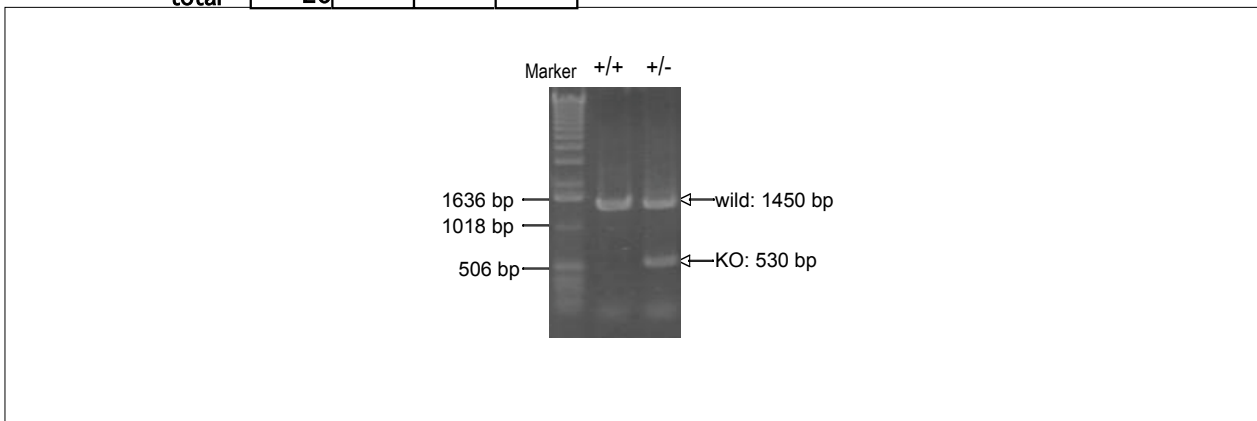
**Reaction Components**

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			
total		20			

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	120*	*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	1450 bp	WT
primer 1	primer 2	530 bp	KO

Comment