

# PCR protocol

RBRC 00915

Strain name IRF-9 Knockout mouse, BALB/c

Primer	primer_name	primer_seq	length
1	ISGF3g	TCAATGTTCCGATGTGGCAGTTCAAAGGATC	31
2	E3g	TATCGAATACTGCCAGCAGGAACCC	25
3	Neo p48	TCCTGCTTTACGCTATCGCCGCTCCCGATT	30 <sup>neo</sup>

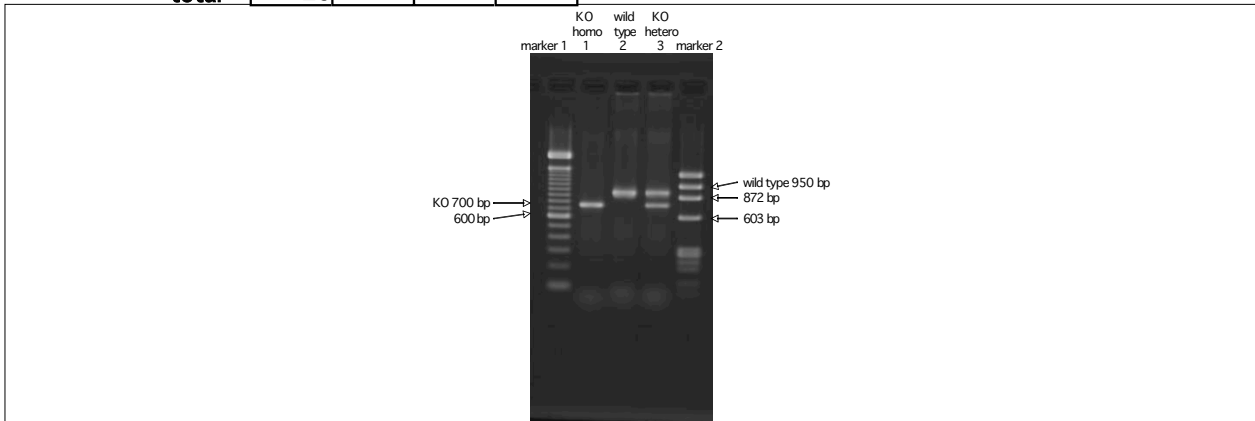
**Reaction Components**

Enzyme Roche Taq (Cat. No. BM1418432)

**Reaction Conditions**

	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/ $\mu$ 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>25</b>			

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	90*	*Repeat for 32 cycles
5	72	300	


**Marker**

 marker 1: 100 bp ladder (Invitrogen, Cat. 15628-050), marker 2:  $\phi$ X174

**Gel**

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

**PCR products**

primer_set	product_size	product
primer 1   primer 3	700 bp	KO
primer 1   primer 2	950 bp	wild

**Comment**