

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	50
MMRRC Strain Name	129S- <i>Ifngr2</i> ^{tm1Pbro} /Mmnc
Gene Name(s)	Interferon gamma receptor 2 (<i>Ifngr2</i>)
Breeding Protocol(s)	Sib-mate or backcross to 129SvEV
Protocol Date	8/5/13

MMRRC #50 PCR Reaction

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5
25 mM MgCl ₂	2
10 mM dNTPs	0.5
10 μM Primer Forward	1
10 μM Primer Reverse	1
Apex Taq	0.5
DNA	2

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 60°C for 30 sec
 Step 4: 72°C for 1 min
 Step 5: 35x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

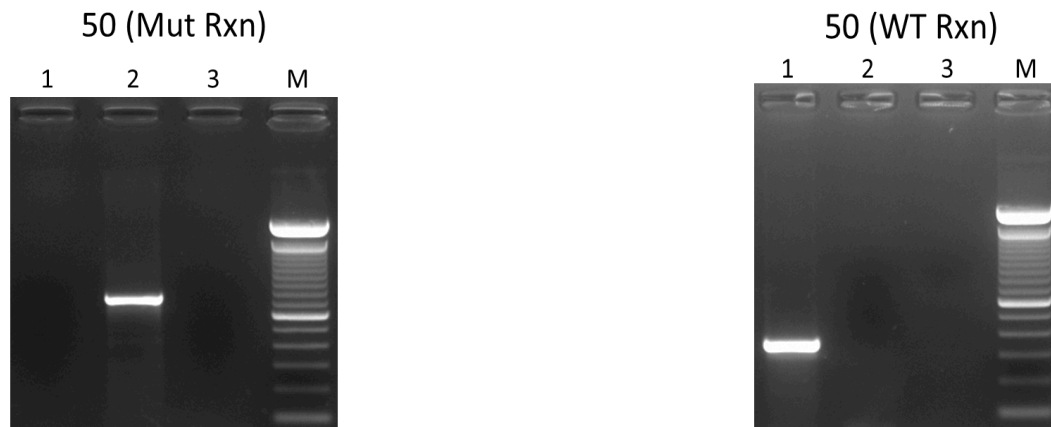
IFN-1: CCC AAG GCT TCA CCT GTA CAA

IFN-2: CCA GCA GCC ACA GCT CTT TAA

Neo (50): CCG CTA TCA GGA CAT AGC GTT

Bands expected: WT: primers IFN-1 + IFN-2: 354 bp
 Mut: Primers IFN-2 + Neo (50): 800 bp

Run on 1% agarose gel in TAE.



Lane 1: WT; Lane 2: Hom; Lane 3: H₂O; M: 100 bp DNA ladder (Invitrogen) Lane 1: WT; Lane 2: Hom; Lane 3: H₂O; M: 100 bp DNA ladder (Invitrogen)