

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11192
MMRRC Strain Name	129-Tg(Pax4-cre,-GFP)1Pgr/Mmnc
Gene Name(s)	Paired box gene 4 (Pax4), GFP (Jelly Fish), cre (Bacteriophage P1)
Breeding Protocol(s)	Sib-mating
Protocol Date	1/27/14

MMRRC #11192 PCR Reaction

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10 μM Primer F	1
10 μM Primer R	1
Taq	0.5
DNA	2

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 57°C for 30 sec
 Step 4: 72°C for 30 sec
 Step 5: 30x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

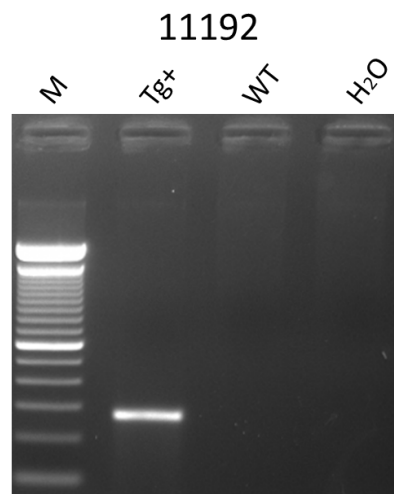
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

F (11191): ATG CTT CTG TCC GTT TGC CG

R (11191): CCT GTT TTG CAC GTT CAC CG

Bands expected: Tg+: 300 bp
 WT: no band

Run on 1% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)