

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	289
MMRRC Strain Name	STOCK Tg(Nr2f2-EGFP)BN102Gsat/Mmnc
Gene Name(s)	Nuclear receptor subfamily 2, group F, member 2 (Nr2f2)
Breeding Protocol(s)	Outcross to Swiss Webster (Taconic)
Protocol Date	9/3/14

#289 PCR Reaction

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

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 45 sec
 Step 3: 57°C for 45 sec
 Step 4: 72°C for 60 sec
 Step 2 to 4 Cycles: 30
 Step 5: 72°C for 7 min

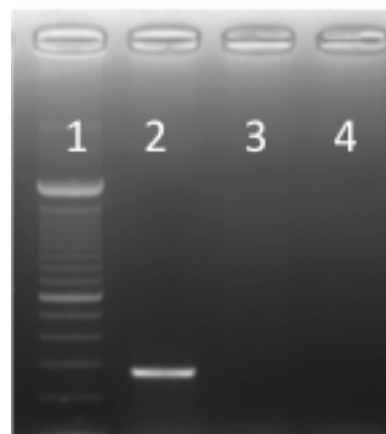
Taq: **Apex Taq and Chromataq 5X Buffer**

Bands: MUTANT: ~275bp
 WT: No Band

Primer sequences 5' to 3':

EGFP2(289): TAGCGGCTGAAGCACTGCA
 ABoxFor(289): ACGCGGCCCCATAGATAT

Run on 2% agarose gel.



1. 100bp Marker
2. Transgene Positive Sample
3. Wild-Type Control
4. Negative Control