

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	36974
<b>MMRRC Strain Name</b>	B6N.129P2-Scp2 <sup>tm1Fsch</sup> /Mmnc
<b>Gene Name(s)</b>	sterol carrier protein 2, liver (Scp2)
<b>Breeding Protocol(s)</b>	Sib-mating
<b>Protocol Date</b>	8/18/14

### MMRRC #36974 PCR Reaction

**Thermal Cycler:**

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 58°C for 30 sec

Step 4: 72°C for 45 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

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

	<u>1X</u>
ddH <sub>2</sub> O	11
5X Buffer	5.0
25mM MgCl <sub>2</sub>	2
10mM dNTPs	0.5
10uM WT Primer	1
10uM Mutant Primer	1
10uM Common Primer	2
Taq	0.5
DNA	2

**Bands:** MUTANT: 325bp

WT: 550bp

**Primer sequences 5' to 3':**

Scp2(36974)Com: TCAAAGCAGCAGTGCAGGCA

Scp2(36974)WT: GTA GAG AGC CCC AAG TGT TAG GAG AAG

Scp2(36974)Mut: GCT TCC TCG TGC TTT ACG GT

Run on 2% agarose gel.

1. Homozygous Sample
2. Homozygous Sample
3. Wild-type Control
4. Homozygous Positive Control
5. Negative Control

