

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	36815
<b>MMRRC Strain Name</b>	STOCK <i>Soat2</i> <sup>tm1.1Llr</sup> Tg(Alb-cre)21Mgn/Mmnc
<b>Gene Name(s)</b>	sterol O-acyltransferase 2 (Soat 2)
<b>Breeding Protocol(s)</b>	Sib-mating
<b>Protocol Date</b>	9/23/13

### MMRRC #36815 PCR Reaction

**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 45 sec  
 Step 5: Step 2 to 4; Cycles: 35  
 Step 6: 72°C for 7 min

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

	<b><u>1X</u></b>
ddH <sub>2</sub> O	12
5X Buffer	5.0
25 mM MgCl <sub>2</sub>	2
10 mM dNTPs	0.5
10 μM Primer F	1.0
10 μM Primer R	1.0
DMSO	1.0
Taq	0.5
DNA	2.0

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

SOAT2 (36815)-F: CTGACCACAGAAAAGCATTGATCA

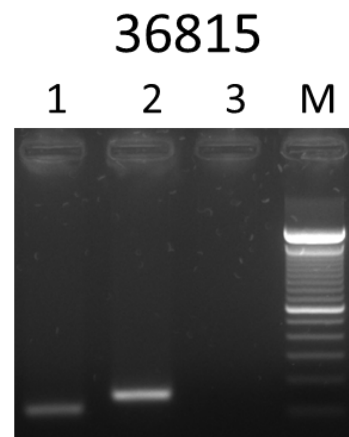
SOAT2 (36815)-R: AATCCGTATTGCTCAGTTTACCCCT

**Bands expected:**

MUTANT: ~184 bp

WT: 116 bp

Run on 2.0% agarose gel in TAE.



Lane 1: WT; Lane 2: Homo; Lane 3: H<sub>2</sub>O;  
 M: 100 bp DNA ladder (Invitrogen)