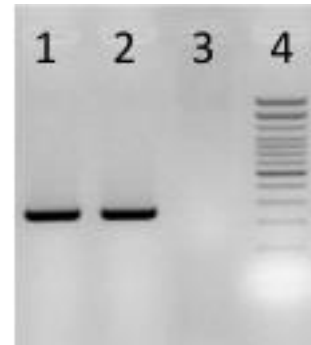


## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	66719
<b>MMRRC Strain Name</b>	B6J.Cg-Tg(FOXJ1-ACE2)1Rba/Mmnc
<b>Gene Name(s)</b>	angiotensin I converting enzyme 2, forkhead box J1
<b>Breeding Protocol(s)</b>	Backcross and sib-mating
<b>Protocol Date</b>	6/19/20

### PCR Reaction

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



1. Tg+ Sample
2. Tg+ Sample
3. Wild-type Control
4. 100bp Marker (Invitrogen)

#### **Thermal Cycler:**

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

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

Bands: WT: No Band    MUTANT: 354bp

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

ACE2(66719)16F      GTGCGAGTGGCTAATTTGAA  
 ACE2(66719)18R1    GCTAATATCGATGGAGGCATAAG

Run of 2% agarose gel