

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	198
<b>MMRRC Strain Name</b>	STOCK Tg(Msx2-cre)5Rem/Mmnc
<b>Gene Name(s)</b>	Homeobox, msh-like 2 (Msx2), transgene insertion 5 (Tg(Msx2-cre)5Rem)
<b>Breeding Protocol(s)</b>	Sib-mate (Tg/Tg mice viable per Donating Investigator)
<b>Protocol Date</b>	11/11/13

### MMRRC# 198 PCR Reaction

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

**Thermal Cycler:**  
 94°C for 30 sec  
 58°C for 50 sec  
 72°C for 60 sec  
 37x

Taq: Apex and Chromataq 5X Buffer

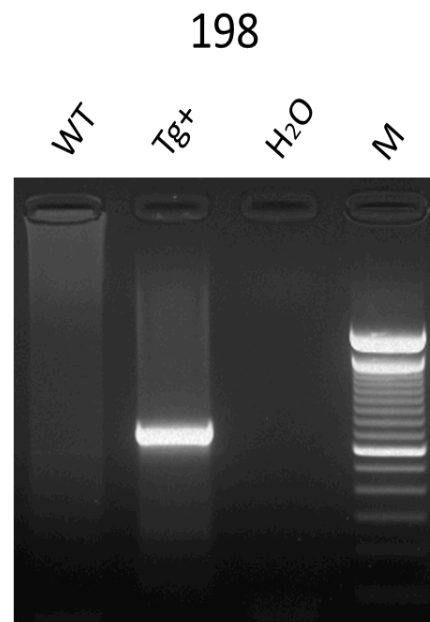
**Bands:** MUTANT: ~650bp  
 WT: No Band

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

P1 (198): CCATGCCCTCCGAGATTTCC

P2 (198): GTTATTCAACTGCACCATGC

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)