

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	30440
<b>MMRRC Strain Name</b>	B6;129P2-Tg(NKX2-5-EmGFP)1Conk/Mmnc
<b>Gene Name(s)</b>	NK2 transcription factor related, locus 5 (NKX2-5 Human)
<b>Breeding Protocol</b>	Backcross to C57BL/6J
<b>Protocol Date</b>	11/11/13

### MMRRC# 30440 PCR Reaction

**Thermal Cycler:**

Step 1: 94°C for 60 sec

Step 2: 56°C for 60 sec

Step 3: 72°C for 60 sec

34x

Taq: **Apex and Chromataq 10X Buffer**

**Bands:** MUTANT: 367bp

WT: no band

	<b>1X</b>
DNA	1.0
5X Buffer	5.0
10mM dNTPs	1.0
20 uM Primer F/R	1.0
Taq	1.0
ddH <sub>2</sub> O	14.0
25mM MgCl <sub>2</sub>	2.0

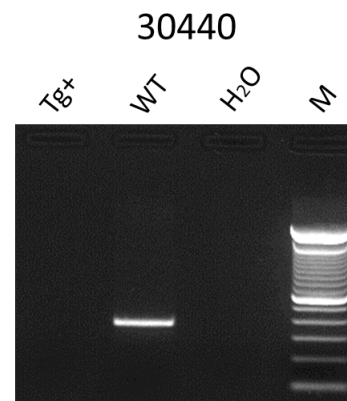
Primers are 10uM with respect to each primer (20uM total).

**Primer sequences 5' to 3':** Primers are 10uM with respect to each primer (20uM total).

**NKX2.5-R:** GTTTCTTGGGGACGAAAG

**NKX2.5F 9232:** GACGTGACCCTGTTCATCAG

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)