

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	37420
<b>MMRRC Strain Name</b>	B6;129P2(CD1)-Uty <sup>Gt(XS0378)Wtsi</sup> /Mmnc
<b>Gene Name(s)</b>	ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome (Uty)
<b>Breeding Protocol(s)</b>	Backcross
<b>Protocol Date</b>	7/2/18

### MMRRC #37420 PCR Reaction

**Thermal Cycler:**

Step 1: 94°C for 5 min

Step 2: 94°C for 45 sec

Step 3: 55°C for 45 sec

Step 4: 72°C for 60 sec

Step 2 to 4 Cycles: 35

Step 5: 72°C for 7 min

	<b>1X</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

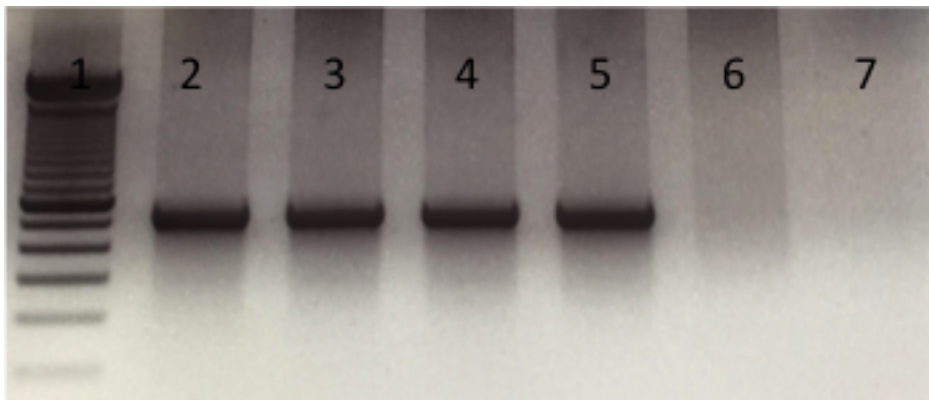
Taq: **Apex Taq and Chromataq 5X Buffer**

**Bands:** WT: No Band    MUTANT: 520bp

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

Uty(37420)For:        ATGCCAGAGACTCAGTGAAG

Uty(37420)Rev:        GATCCTCTAGAGTCCAGATC



1. 100bp Marker (Invitrogen)
2. Uty+ Sample
3. Uty+ Sample
4. Uty+ Sample
5. Uty+ Sample
6. Wild-type Control
7. Negative Control