

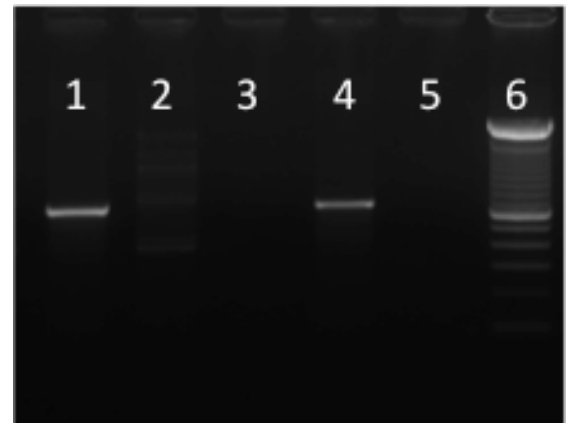
## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	292
<b>MMRRC Strain Name</b>	STOCK Tg(Th-EGFP)DJ76Gsat/Mmnc
<b>Gene Name(s)</b>	Tyrosine hydroxylase (TH)
<b>Breeding Protocol(s)</b>	Outcross to Swiss Webster (Taconic)
<b>Protocol Date</b>	3/26/12

### MMRRC# 292 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 45 sec  
 57°C for 45 sec  
 72°C for 60 sec  
 30x



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

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

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

TH(292) 5ABox: GGCGGCCTAGCCTTCCTAACATGAACCTTGG

TH(292) EGFP-R2: TAGCGGCTGAAGCACTGCA

Run on 2.0% agarose gel in TAE.

1. EGFP+ Sample
2. Wild-type Sample
3. Wild-type Sample
4. Positive Control
5. Negative Control
6. 100bp Marker