

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	280
<b>MMRRC Strain Name</b>	STOCK Tg(Gpr37-EGFP)BQ142Gsat/Mmnc
<b>Gene Name(s)</b>	G protein-coupled receptor 37 (Gpr37), EGFP
<b>Breeding Protocol(s)</b>	Outcross to Swiss Webster (Taconic)
<b>Protocol Date</b>	12/21/12

### MMRRC #280 PCR Reaction

	<b><u>1X</u></b>
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

**NOTE:** 2,2 primer reactions (Common + WT-R) for wild-type and (Common + Mut-R) for mutant reaction

**Thermal Cycler:**

94°C for 30 sec  
60°C for 30 sec  
72°C for 45 sec  
35x

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

**Bands:** MUTANT: 419bp  
WT: 466bp

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

Common (280): CGCCAGTCGCAACATTAGGGA  
WT-R (280): CAGCTCTCCCCAGACAAGTTCCA  
Mut-R (280): GAACTTGTGGCCGTTTACGTCGC

Run on 2.0% agarose gel in TAE.