

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	41832
<b>MMRRC Strain Name</b>	FVB/N-Tg(MMTV-TDGF1)G4Xxx
<b>Gene Name(s)</b>	Human Cripto-1
<b>Breeding Protocol(s)</b>	Sib-mating
<b>Protocol Date</b>	10/10/16

### MMRRC #41832 PCR Reaction

**Thermal Cycler:**

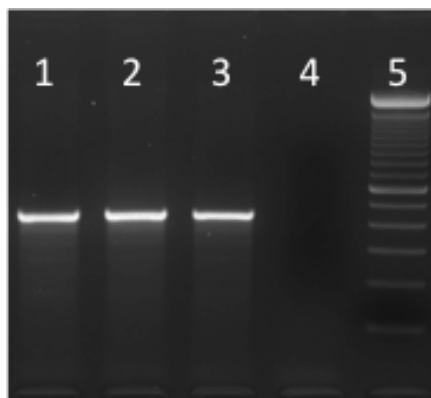
Step 1: 94° for 5 min  
 Step 2: 94°C for 30 sec  
 Step 3: 59°C for 30 sec  
 Step 4: 72°C for 30 sec  
 Step 2 to 4 Cycles: 30  
 Step 5: 72°C for 7 min

	<b><u>1X</u></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: 418bp

**Primer sequences 5' to 3':** Primers are 10uM with respect to each primer  
 MMTV(41832)F: CAGGAATTTGCTCGTCCATCTCGG  
 MMTV(41832)R: TAGTACGTGCAGACGGTGGTAGTT



1. Tg+ Sample
2. Tg+ Sample
3. Tg+ Sample
4. Wild-type Control
5. 100bp Marker (Invitrogen)