

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	32822
<b>MMRRC Strain Name</b>	B6;129P2- <i>Gtf2ird1</i> <sup>Gt(XE465)Byg</sup> /Mmnc
<b>Gene Name(s)</b>	general transcription factor II I repeat domain-containing 1; gene trap XE465, BayGenomics ( <i>Gtf2ird1</i> )
<b>Breeding Protocol(s)</b>	Backcross to C57BL/6J (partial homo lethality)
<b>Protocol Date</b>	1/6/14

### MMRRC# 32822 PCR Reaction

**NOTE:** Run 2 reactions for each sample (WT: F 06+ F11) and (MUT: F11 + Gtf R)

**Thermal Cycler:**

95°C for 5 min  
 95°C for 30 sec  
 58°C for 30 sec  
 72°C for 30 sec  
 36x  
 72°C for 7 min

	<b>1X</b>
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
10 uM Primer F/R	1/1
Taq	0.5
ddH <sub>2</sub> O	13.0
25mM MgCl <sub>2</sub>	2.0

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

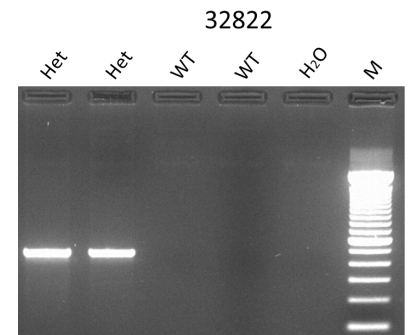
**Bands:** MUTANT: 479bp  
 WT: 320bp

Primers are 10uM with respect to each primer.

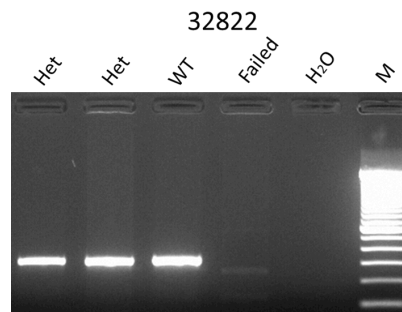
**Primer sequences 5' to 3':**

F06 5'- TCGGGGATGGTGGAGGAAAC  
 F11 5'- GGCTCAGAGGTGGCTCCAGTTG  
 Gtf R 5'- GGGCATAACATTTGCCATA

Run on 2.0% agarose gel in TAE.



32822  
 Primers: F11 + Gtf R  
 M: 100 bp DNA ladder (Invitrogen)



32822  
 Primers: F 06 + F11  
 M: 100 bp DNA ladder (Invitrogen)