

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	30664
<b>MMRRC Strain Name</b>	B6;129- <i>Tead4</i> <sup>tm1B<sup>nno</sup></sup> /Mmnc
<b>Gene Name(s)</b>	TEA domain family member 4 (Tead4)
<b>Breeding Protocol(s)</b>	Sib-Mating ( -/- x -/-)
<b>Protocol Date</b>	12/2/13

### MMRRC# 30664 PCR Reaction

Denaturing: 94°C for 30 sec  
 Annealing Temp.: 53°C for 45 sec  
 Extension: 72°C 1 for min  
 Cycles: 35  
 Taq: **Apex and Chromataq Buffer**

**Bands:** WT: 294bp  
 Conditional: 328bp

	<b>1X</b>
DNA	0.5
5X Buffer	5.0
10mM dNTPs	0.5
20 uM Primer 1 & 2	1.0
Taq	1.0
ddH <sub>2</sub> O	15.5
25mM MgCl <sub>2</sub>	2.0

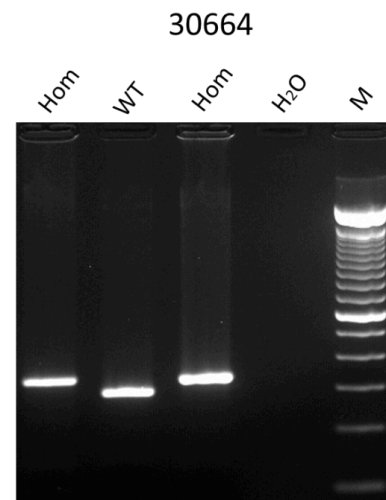
Primers are 10uM with respect to each primer (20uM total).

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

**TEAD4.20F:** GATTAAAGGCTCACTCAGAGG

**TEAD4.28R:** AGCTCCACTCGTTGGAGGTAAT

Run on 2.5% agarose gel in TAE. (55 minute run time)



M: 100 bp DNA ladder (Invitrogen)