

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	16991
<b>MMRRC Strain Name</b>	B6;129S4-Myh10 <sup>tm2Rsad/</sup> Mmnc
<b>Gene Name(s)</b>	Myosin, heavy polypeptide 10, non-muscle (Myh10)
<b>Breeding Protocol(s)</b>	Sib-Mating (-/- lethal)
<b>Protocol Date</b>	1/23/14

### MMRRC#16991 PCR Reaction

**Thermal Cycler:**

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

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

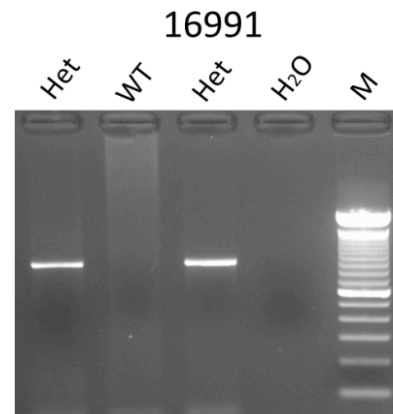
**Bands:** MUTANT: 900bp  
 WT: No Band

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

P1 (16991): TTCGCAGCGCATCGCCTTCTA  
 DI-M-F (16991): AGACGATAGAGAAAAGGTCA

Run on 2.0% agarose gel in TAE.

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



M: 100 bp DNA ladder (Invitrogen)