

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	30138
<b>MMRRC Strain Name</b>	B6;129S6-Myh14 <sup>tm1Rsad</sup> /Mmnc
<b>Gene Name(s)</b>	myosin, heavy polypeptide 14; targeted mutation 1, Robert S Adelstein (Myh14 <sup>tm1Rsad</sup> )
<b>Breeding Protocol(s)</b>	Sib-mate
<b>Protocol Date</b>	12/9/2013

### MMRRC# 30138 PCR Reaction

	<b><u>1X</u></b>
ddH <sub>2</sub> O	12.5
5X Buffer	5.0
25mM MgCl <sub>2</sub>	1.5
10mM dNTPs	0.5
10 uM Primer 1	1
10 uM Primer 2	1
10 uM Primer 3	1
Taq	0.5
DNA	2

**Thermal Cycler:**

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

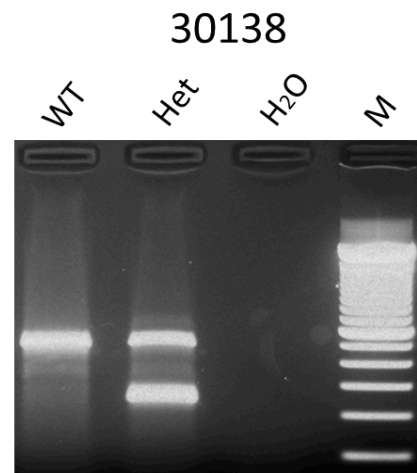
Taq: **Apex and Chromataq 5X Buffer**

**Bands:** MUTANT: 210bp  
 WT: 470bp

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

II-C Neo ( 30138 ):    gaa gac aat agc agg cat gct  
 II-C Up( 30138 ):    gta ggt atg ccg tat gcc ata  
 II-C Down( 30138 ): tct act gca agc aga tgc gca

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)