

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	29868
MMRRC Strain Name	129S6;129P2-Myh7 ^{tm1Unc} /Mmnc
Gene Name(s)	Myosin, heavy polypeptide 7, cardiac muscle (Myh7)
Breeding Protocol(s)	Backcross to 129/SvEv
Protocol Date	11/7/2022

MMRRC# 29868 PCR Reaction

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

Thermal Cycler:

Step 1: 94°C for 30 sec

Step 2: 58°C for 30 sec

Step 3: 72°C for 45 sec

34x

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

Bands: MUTANT: 440bp

WT: 300bp

Primer sequences 5' to 3':

Forward (29868): TACTCCTCTGCTGAGGCTTCC

Reverse (29868): GTTTGCACATGAACACTGTGG

Run on 2.0% agarose gel in TAE.