

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	16981
MMRRC Strain Name	STOCK <i>Myh10^{tm7R_{sad}}/Mmnc</i>
Gene Name(s)	Myosin, heavy polypeptide 10, non-muscle (<i>Myh10</i>)
Breeding Protocol(s)	Sib-mating (homozygote x homozygote)
Protocol Date	1/13/14

MMRRC #16981 PCR Reaction

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

Thermal Cycler:

94°C for 5 min
 94°C for 45 sec
 55°C for 45 sec
 72°C for 60 sec
 35x
 72°C for 7min

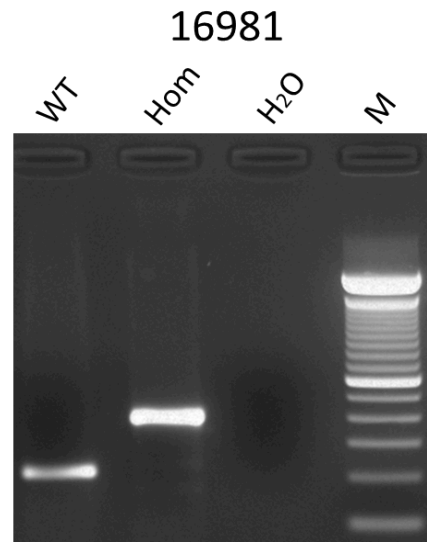
Taq: **Apex and Chromataq 5X Buffer**

Bands: MUTANT: 310bp
 WT: 210bp

Primer sequences 5' to 3':

Bflox Pr1: 5'-GACCGCTACTATTCAGGACTTATC
 2Bflox Pr2: 5'-CAGAGAAACGATGGGAAAGAAAGC

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)