

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	34321
MMRRC Strain Name	B6;129S4-Myh9 ^{tm2(GFP/MYH10)Rsad} /Mmnc
Gene Name(s)	myosin, heavy polypeptide 9, non-muscle (Myh9)
Breeding Protocol(s)	Sib-mating
Protocol Date	6/12/13

MMRRC #34321 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 55°C for 30 sec

Step 4: 72°C for 60 sec

Step 2 to 4 Cycles: 35

Step 5: 72°C for 7 min

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

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM WT Primer	1
10uM Mut Primer	1
Taq	0.5
DNA	2

Bands: MUTANT: ~200bp

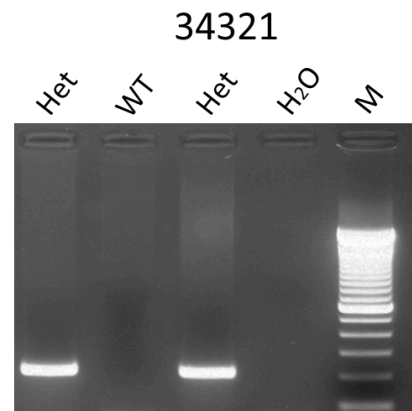
WT: No Band

Primer sequences 5' to 3':

TM2-GFPF (34321): 5' GCATGGACGAGCTGTACAAGT

TM2-REV (34321): 5' TCTGCCAACTCCACCATAACTT

Run on 2% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)