

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	41413
MMRRC Strain Name	B6.129P2- <i>H3f3a</i> ^{tm1Mag} /Mmnc
Gene Name(s)	H3 histone, family 3A (H3f3a)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	7/28/17

MMRRC #41413 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 45 sec

Step 3: 55°C for 45 sec

Step 4: 72°C for 60 sec

Step 2 to 4 Cycles: 35

Step 5: 72°C for 7 min

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

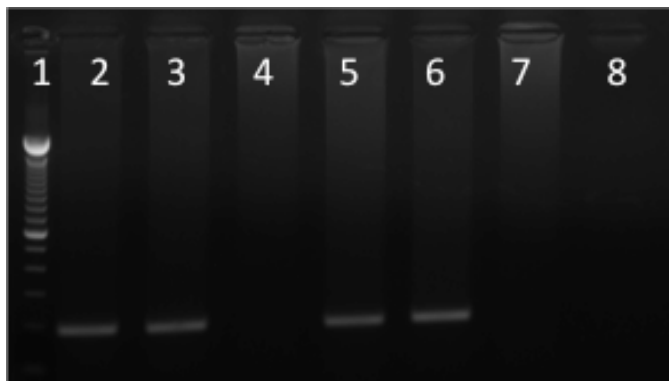
Taq: **Apex Taq and Chromataq 5X Buffer**

Bands: WT: No Band
 MUTANT: 200bp

Primer sequences 5' to 3': Primers are 10uM with respect to each primer

H3f3a(41413)F GGCTGTAATTTGACTCGACCTTTCTGT

H3f3(41413)ComR AGTTATCTCGAACGTGAAGTGCAGTCTA



1. 100bp Marker (Invitrogen)
2. Mutant Sample
3. Mutant Sample
4. Wild-type Sample
5. Mutant Sample
6. Mutant Sample
7. Wild-type Control
8. Negative Control