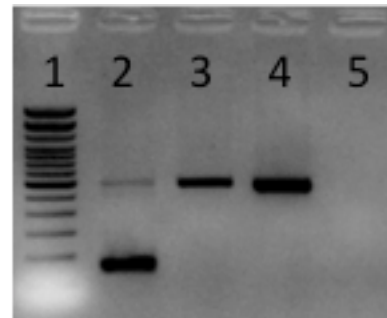


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	67245
MMRRC Strain Name	C57BL/6NTac- <i>Fabp7</i> ^{em1(IMPC)^H} /Mmnc
Gene Name(s)	fatty acid binding protein 7, brain
Breeding Protocol(s)	Intra-strain Mating
Protocol Date	7/6/2022

PCR Reaction

	<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



Thermal Cycler:

Step 1: 94C, 5min
 Step 2: 94C, 45sec
 Step 3: 57C, 45sec
 Step 4: 72C, 60sec
 Step 2 to 4 Cycles: 30
 Step 5: 72C, 7min

1. 100bp Ladder (Invitrogen)
2. Heterozygous Sample
3. Wild-type Sample
4. Wild-type Control
5. Negative Control

Taq: Apex Taq and Chromataq 5X Buffer

Bands: WT: 595bp MUTANT: ~175bp

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

Fabp(67245)F: TGGAGAAGGGAGTGAGAAGG
 Fabp(67245)R: CATGGTTCAATACTCTCTGGGTAA