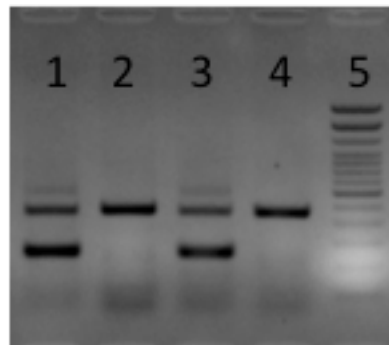


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	71094
MMRRC Strain Name	C57BL/6NJ- <i>Foxn3</i> ^{em1(IMPC)Bay} /Mmnc
Gene Name(s)	forkhead box N3
Breeding Protocol(s)	Intra-strain Mating
Protocol Date	8/1/2023

PCR Reaction

	1X
ddH ₂ O	11.5
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	1
DNA	2



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

Thermal Cycler:

Step 1: 94C, 5min
 Step 2: 94C, 45sec
 Step 3: 55C, 45sec
 Step 4: 72C, 60sec
 Step 2 to 4 Cycles: 30
 Step 5: 72C, 7min

Taq: Apex Taq

Bands: WT: 460bp MUTANT: ~250bp

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

Fox(71094)CF: CGTTTCCATTTTTGTAAGATCG

Fox(71094)MR: CCATCACTCAGGAGCCTGTC

Fox(71094)WR: ATGCACCACAATGACCCTTT