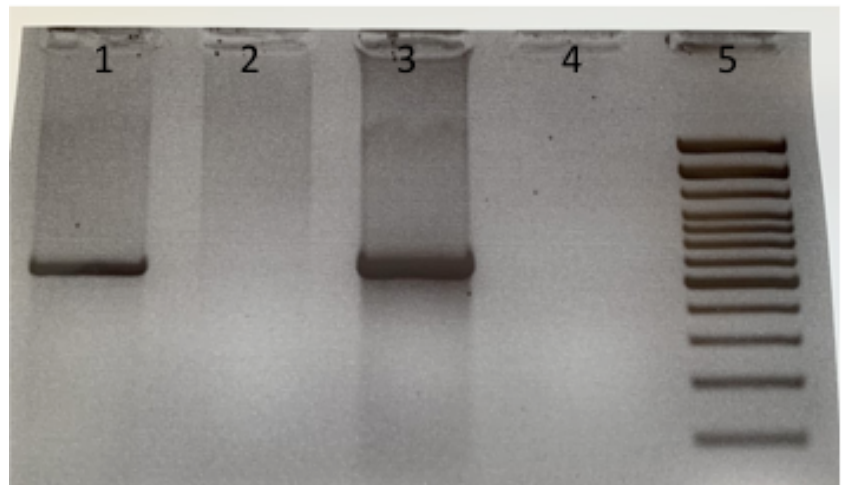


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	30261
MMRRC Strain Name	STOCK Tg(Mef2c-cre)1Blk/Mmnc
Gene Name(s)	Myocyte enhancer factor 2c (Mef2c)
Breeding Protocol(s)	Outcross to ICR (Taconic)
Protocol Date	7/31/19

PCR Reaction

	<u>1X</u>
ddH ₂ O	13.5
5X Buffer	5
25mM MgCl ₂	1.5
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	0.5
DNA	2



1. Cre+ Sample
2. Wild-type Control
3. Positive Control
4. Negative Control
5. 100bp Marker (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 and Chromataq 5X Buffer

Bands: WT: No Band Cre: ~700bp

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

CreA 5' TGCCACGACCAAGTGACAGC
 CreB 5' CCAGGTTACGGATATAGTTCATG