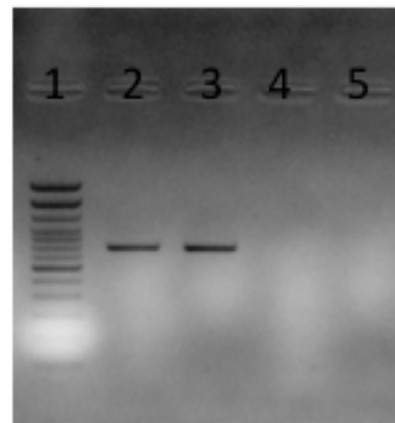


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	69930
MMRRC Strain Name	B6J.Cg- <i>Itga8</i> ^{tm1(cre/ERT2)Gan} /Mmnc
Gene Name(s)	integrin alpha 8
Breeding Protocol(s)	Backcross
Protocol Date	10/24/2023

PCR Reaction

	<u>1X</u>
ddH ₂ O	12.5
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	1
DNA	2



Note: Homozygous Lethal

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

Taq: Apex Taq

Bands: WT: No Band MUTANT: 770bp

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

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

Itg(69930)3613 GAAATCTAGCGGGCTCAACA
Itg(69930)332 CCATGAGTGAACGAACCTGGTCC