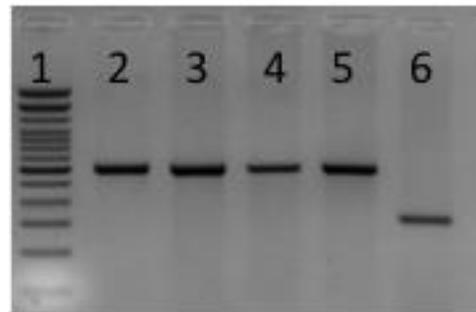


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	67438
MMRRC Strain Name	FVB.129P2(Cg)- <i>Mst1r</i> ^{tm1.1Sew} /Mmnc
Gene Name(s)	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
Breeding Protocol(s)	Sib-mating
Protocol Date	8/31/2021

PCR Reaction

	1X
ddH ₂ O	14.5
10X Buffer	2.5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2



Visualize on a 2% Gel

Thermal Cycler:

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

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

Taq: Apex Taq and Apex 10X Buffer (From Genesee Scientific, catalog # 42-401)

Bands: WT: ~340bp MUTANT: ~660bp

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

RonTK(67438)F GTG GTG AGG TCT GCC AAC AT
 RonTK(67438)WR TCA TTT GAA TCA GTC CCC TCA CTT TTC TCC
 RonTK(67438)MR GGA ACC AGT ACA CAG ATG AGT AAA CTG AGC