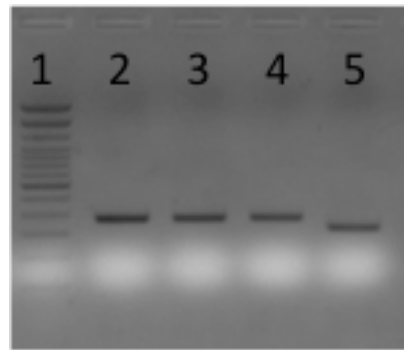


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	67440
MMRRC Strain Name	B6N.129P2(Cg)- <i>Mst1^{tm1Sew}</i> /Mmnc
Gene Name(s)	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
Breeding Protocol(s)	Backcross and sib-mating
Protocol Date	11/16/2022

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



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. Wild-type Control

Taq: Apex Taq and Apex 10X Buffer

Bands: WT: ~340bp MUTANT: ~415bp

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

Ron(67440)F GTG GTG AGG TCT GCC AAC AT

Ron(67440)R TCA TTT GAA TCA GTC CCC TCA CTT TTC TCC