

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	69940
MMRRC Strain Name	STOCK <i>Malat1^{tm1Svdi}/Mmnc</i>
Gene Name(s)	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA)
Breeding Protocol(s)	Random intra-strain mating
Protocol Date	9/19/2025

PCR Reaction

	<u>1X</u>
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

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: 121bp flox: 165bp KO: 205bp

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

Mal(69938)1: CACTCTGGGAATGTTTTTGG

Mal(69938)2: TGTCGAAAGAGGTGGTGTG

Mal(69938)3: CAGGAAAACGCAAAAGGTGT