

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	41503
MMRRC Strain Name	B6J.Cg-Trim9 ^{tm1.1Slgu} /Mmnc
Gene Name(s)	tripartite motif-containing 9 (Trim9)
Breeding Protocol(s)	Intra-strain Mating
Protocol Date	12/23/16

MMRRC #41503 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 56°C for 30 sec

Step 4: 72°C for 30 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	0.5
DNA	2

Taq: **Apex Taq and Chromataq 5X Buffer**

Bands:

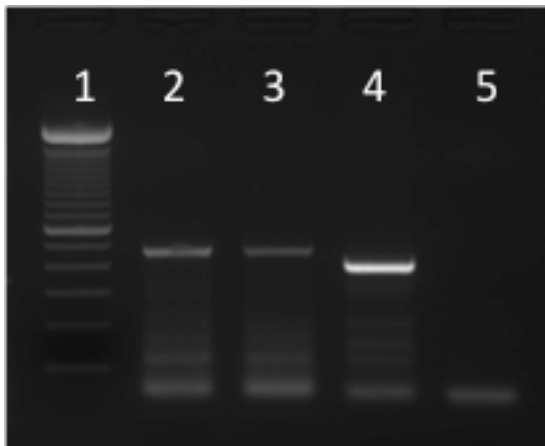
WT: ~410bp

MUTANT: ~480bp

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

Trim9(41503)F: CTT CTG AGG GTT GGA GAA AAG C

Trim9(41503)R: CGT GAG AGC TGC TTT CTT ATT GG



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