

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	12034
MMRRC Strain Name	B6;129X1- <i>Msra</i> ^{tm1Jmo} /Mmnc
Gene Name(s)	Methionine sulfoxide reductase A (<i>Msra</i>)
Breeding Protocol(s)	Intra-Strain Mating
Protocol Date	1/15/14

MMRRC# 12034 PCR Reaction

Note: 2,2 Primer Reactions (For + Rev) for wild-type and (For + Neo) for mutant.

Thermal Cycler:

- Step1: 94°C for 5 min
- Step 2: 94°C for 30 sec
- Step 3: 67°C for 30sec
- Step 4: 72°C for 1 min
- Step 2 to 4, Cycles: 30 for wild-type reaction
35 for mutant reaction
- Step 5: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

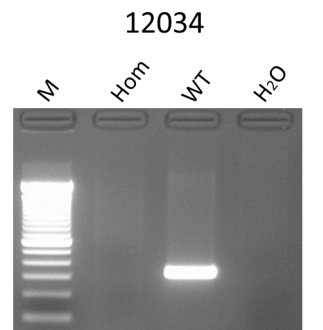
Bands: MUTANT: ~720bp
WT: 324bp

Primer sequences 5' to 3':

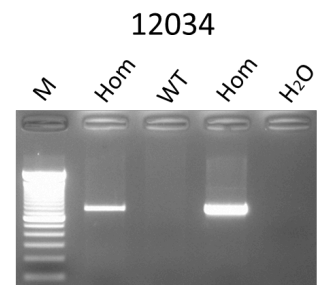
For: 5'- GAGCCGCTTGCTGGAAGCTAAATC
 Rev: 5'- CTTGTCCCTACCTGAGCAGACCT
 Neo: 5'- GCAGCGCATCGCCTTCTATC

Run on 2.0% agarose gel in TAE.

	1X
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
10 uM Primer F/R	1/1
Taq	0.5
ddH ₂ O	13.0
25mM MgCl ₂	2.0



Primers: For + Rev
M: 100 bp DNA ladder (Invitrogen)



Primers: For + Neo
M: 100 bp DNA ladder (Invitrogen)