

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	29994
MMRRC Strain Name	B6.129S6- <i>Mafa</i> ^{tm1.1Rwst} /Mmnc
Gene Name(s)	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein A (Mafa)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	8/5/13

MMRRC #29994 PCR

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10 μM Primer F	1
10 μM Primer R	1
Taq	0.5
DNA	2

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 60 °C for 30 sec

Step 4: 72°C for 45 sec

Step 5: 35x from step 2 to step 4

Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

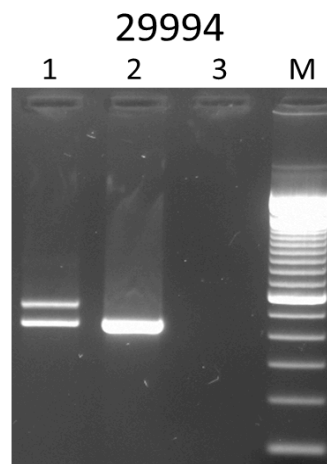
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

MafAF: AGCAAGGCTCCTCCAACCGCCCT

MafAR: GTACTCCTTCGGTGTCTCAGATCC

Bands expected: WT: 436
 MUTANT: 534 bp

Run on 2% agarose gel in TAE.



Lane 1: Het; Lane 2: WT; Lane 3: H₂O; M: 100 bp DNA ladder (Invitrogen)