

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	218
MMRRC Strain Name	B6;D2-Tg(Msx2-LacZ)1Rem/Mmnc
Gene Name(s)	Homeobox, msh-like 2 (Msx2), LacZ (E.Coli) - Beta galactosidase
Breeding Protocol(s)	Sib-mating
Protocol Date	8/5/13

MMRRC #218 PCR Reaction

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

Thermal Cycler:

Step 1: 94⁰C for 5 min
 Step 2: 94⁰C for 30 sec
 Step 3: 55⁰C for 45 sec
 Step 4: 72⁰C for 45 sec
 Step 5: Step 2 to 4; Cycles: 30
 Step 6: 72⁰C for 7 min

Taq: Apex and Chromataq 5X Buffer

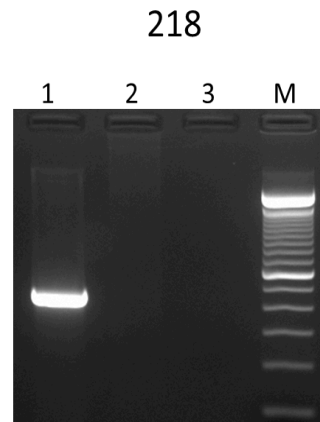
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

F (218): AATACCTGTTCCGTCATAGC

R (218): CTTACGCCAATGTCGTTATC

Bands expected: Tg+ 466bp

Run on 1 % agarose gel in TAE.



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