

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	119
<b>MMRRC Strain Name</b>	STOCK Tg(Amelx)42Msnd/Mmnc
<b>Gene Name(s)</b>	Amelogenin X chromosome (Amelx) Transgene insertion 42 (Tg(Amelx)42Msnd)
<b>Breeding Protocol(s)</b>	Sib-mating
<b>Protocol Date</b>	9/3/13

### MMRRC #119 PCR Reaction

	<u>1X</u>
ddH <sub>2</sub> O	13
5X Buffer	5.0
25mM MgCl <sub>2</sub>	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: 65°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.

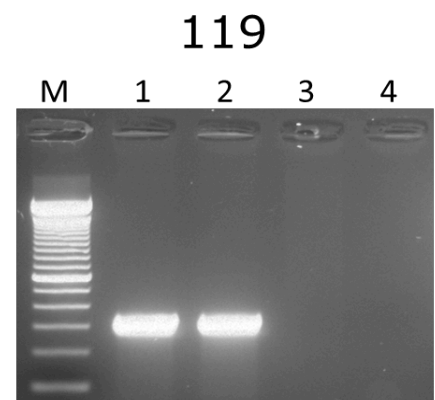
lucF (119): AGA CGC CAA AAA CAT AAA GAA AGG CCC GGC

lucR (119): TAT AAA TGT CGT TCG CGG GCG CAA CTG CAA

**Bands expected:** WT: no product

Mut: 323bp

Run on 1% agarose gel in TAE.



Lane 1, 2: Tg+; Lane 3: WT; Lane 4: H<sub>2</sub>O  
M: 100 bp DNA ladder Invitrogen