

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11194
MMRRC Strain Name	STOCK Tg(Amelx-Dspp/Dpp)13Mlp/Mmnc
Gene Name(s)	Amelogenin X chromosome (Amelx) Dpp, Dentin sialophosphoprotein (Dspp)
Breeding Protocol(s)	Sib-mating
Protocol Date	1/27/14

MMRRC #11194 PCR Reaction

	<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: 32x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

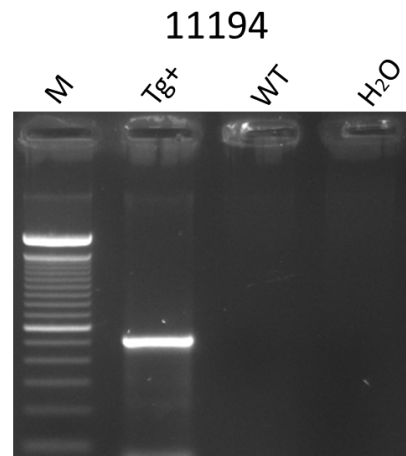
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

PA93: CCTTAGGCTGTATAGCATAGAAAATGGTTTGCAGC

PA20182: TCCTTGGTCGCGACTACGTACCCCG

Bands expected: Tg+: 527 bp
 WT: no band

Run on 1% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)