

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	10600
MMRRC Strain Name	B6.Cg-Tg(Fos/EGFP)1-3Brth
Gene Name(s)	FBJ osetosarcoma oncogene (Fos),
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	7/22/13

MMRRC #10600 PCR Reaction

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10 μM Primer Forward	1
10 μM Primer Reverse	1
Apex 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

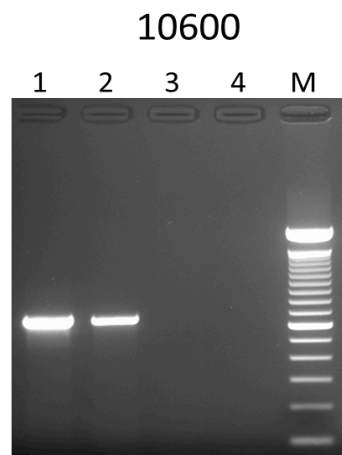
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

F1 (10600): TAGGTTGAACCAGCTGCTGCTCCT

R (10600): GAACTTGTGGCCGTTTACGTCGC

Bands expected: Tg+: ~690bp
 WT: no band

Run on 2% agarose gel in TAE.



Lane 1, 2: Tg+; Lane 3: WT; Lane 4: H₂O; M: 100 bp DNA ladder (Invitrogen)