

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	10588
MMRRC Strain Name	C57BL/6.Cg-Tg(Tagln-cre)1Jomm/Mmnc
Gene Name(s)	Transgelin (Tagln)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	11/18/13

MMRRC #10588 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: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 58°C for 30 sec
 Step 4: 72°C for 90 sec
 Step 5: 35x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

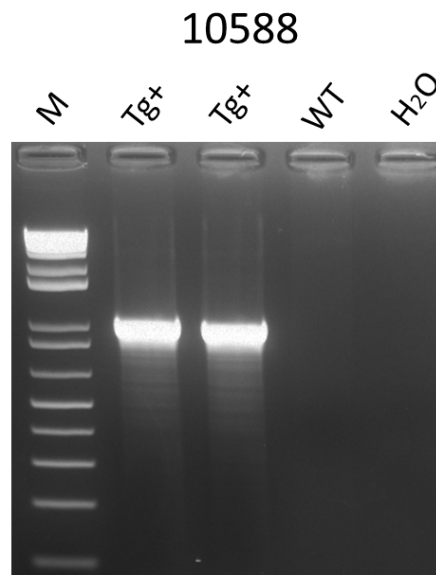
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

SM22 (10588): GCA TCT CCA AAG CAT GCA GAG

Cre (10588): CCA TGA GTG AAC GAA CCT GGT CG

Bands expected: Tg ~1Kb

Run on 1% agarose gel in TAE.



M: 1kb plus DNA ladder (Invitrogen)