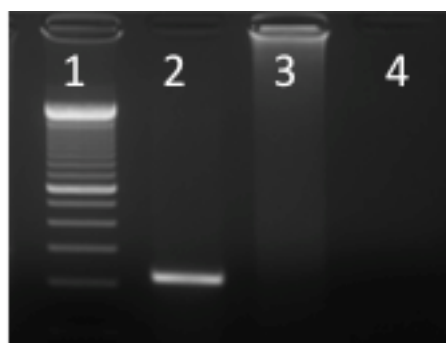


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	41883
MMRRC Strain Name	B6.Cg-Tg(Prop1-cre)517Sac/Mmnc
Gene Name(s)	paired like homeodomain factor 1
Breeding Protocol(s)	Backcross
Protocol Date	5/14/2020

PCR Reaction

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



1. 100bp Ladder (Invitrogen)
2. Tg+ Sample
3. Wild-type Control
4. Negative Control

Thermal Cycler:

Step 1: 94C, 5min
 Step 2: 94C, 30sec
 Step 3: 57C, 30sec
 Step 4: 72C, 45sec
 Step 2 to 4 Cycles: 30
 Step 5: 72C, 7min

Taq: Apex Taq and Chromataq 5X Buffer

Bands: WT: No Band Mutant: 216bp

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

Pcre(41883)F: CTGCACACAGACAGGAGCAT

Pcre(41883)R: GGTCTCCCTCCGTTTTTCTC

Run on 2.0% agarose gel in TAE.