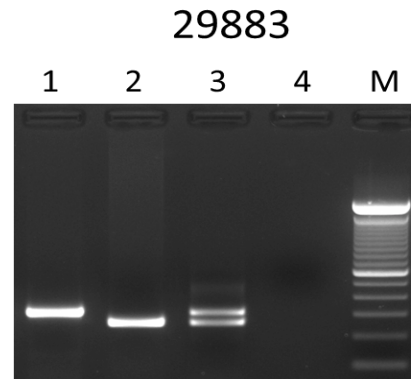


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	29883
MMRRC Strain Name	B6.129S4(Cg)- <i>Bmpr2</i> ^{tm1.1Enl} /Mmnc
Gene Name(s)	Bone morphogenic protein receptor, type II (<i>Bmpr2</i>)
Breeding Protocol(s)	Random Intra-Strain Mating
Protocol Date	9/30/13

MMRRC# 29883 PCR Reaction

	1X
DNA	1.0
5X Buffer	5.0
10mM dNTPs	1.0
20 uM Primer 1 & 2	1.0
Taq	1.0
ddH ₂ O	14.0
25mM MgCl ₂	2.0
Total	25.0



Denaturing: 95°C for 30 sec
 Annealing Temp.: 60°C for 45 sec
 Extension: 72°C for 45s
 Cycles: 40

Taq: **Apex and Chromataq 10X Buffer**

Bands: MUTANT: 315bp
 WT: 260bp

Lane 1: Hom; Lane: WT; Lane 3: Het; Lane 4 : H₂O
 M: 100 bp DNA ladder (Invitrogen)

Primers are 10uM with respect to each primer (20uM total).

Primer sequences 5' to 3':

Primer C: TTA TTG TAA GTA CAC TGT TGC TGT C

Primer 5F: GGC AGA CTC TGA CTT TGA CGC TAG

Run on 2% agarose gel in TAE.

Primer Sequence and Cycling conditions from Beppu et al., *genesis* 41:133–137 (2005)