

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	30469
<b>MMRRC Strain Name</b>	STOCK <i>Bmpr1a</i> <sup>tm2.1Bhr</sup> /Mmnc
<b>Gene Name(s)</b>	Bone morphogenetic protein receptor, type 1A ( <i>Bmpr1a</i> )
<b>Breeding Protocol(s)</b>	Sib-Mating Backcross to C57BL6/129SvEv
<b>Protocol Date</b>	9/30/13

### MMRRC# 30469 PCR Reaction

	<u>1X</u>
DNA	1.0
5X Buffer	5.0
10mM dNTPs	1.0
20 uM Primer F/R	1.0
Taq	1.0
ddH <sub>2</sub> O	14.0
25mM MgCl <sub>2</sub>	2.0

**Thermal Cycler:**

94°C for 5 min  
 94°C for 45 sec  
 56°C for 45 sec  
 72°C for 60 sec  
 Repeat steps 2-4 35x  
 72°C for 10 min

Taq: **Apex and Chromataq 5X Buffer**

**Bands:** MUTANT: 230bp  
 WT: 150bp

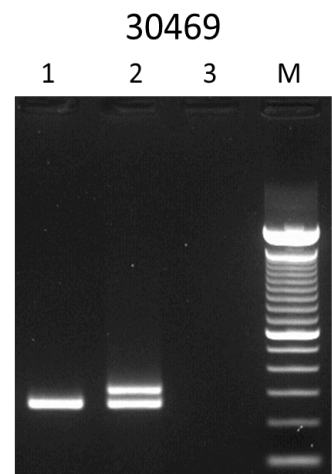
Primers are 10uM with respect to each primer (20uM total).

**Primer sequences 5' to 3':**

**FX2** 5'-GCA GCT GCT GCT GCA GCC TCC

**FX4** 5'-TGG CTA CAA TTT GTC TCA TGC

Run on 2.0% agarose gel in TAE.



Lane 1: WT; Lane 2: Het; Lane 3: H<sub>2</sub>O  
 M: 100 bp DNA ladder (Invitrogen)