

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11622
MMRRC Strain Name	B6.129P2- <i>Gpr19</i> ^{tm1Dgen} /Mmnc
Gene Name(s)	G protein-coupled receptor 19 (Grp19)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	9/3/14

MMRRC #11622 PCR Reaction

	<u>1X</u>
ddH ₂ O	12
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 62°C for 30 sec
 Step 4: 72°C for 45 sec
 Step 2 to 4 Cycles: 35
 Step 5: 72°C for 7 min

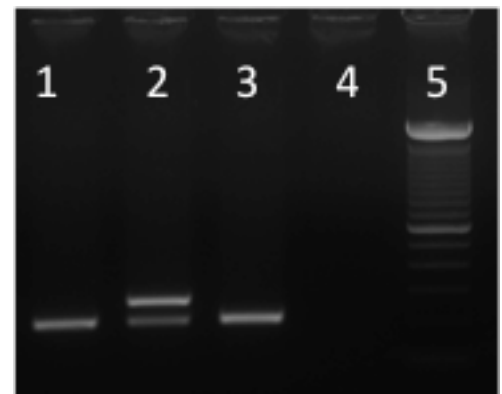
Taq: **Apex Taq and Chromataq 5X Buffer**

Bands: MUTANT: 296bp
 WT: 227bp

Primer sequences 5' to 3':

NIH0566(11622)GS1: TACCGTCATCCACTTCTTGGTGGGC
 NIH0566(11622)GS2: GCCAGAGCTGAGCCACATGGAAAGG
 NIH0566(11622)Neo: GGGCCAGCTCATTCTCCACTCAT

Run on 2% agarose gel.



1. Wild-type Sample
2. Heterozygous Sample
3. Wild-type Control
4. Negative Control
5. 100 bp Marker