

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	30968
MMRRC Strain Name	B6.129P2- <i>Gria4</i> ^{tm1Dgen} /Mmnc
Gene Name(s)	Gria4
Breeding Protocol(s)	Sib-Mated
Protocol Date	12/9/13

MMRRC# 30968 PCR Reaction

This is two 2-primer PCR reaction (D9Jmp106F/D9Jmp106R and D9Jmp132F/D9Jmp132R). Run separately for each sample.

Thermal Cycler:

94°C for 45 sec
 56°C for 45 sec
 72°C for 60 sec
 36x

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

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

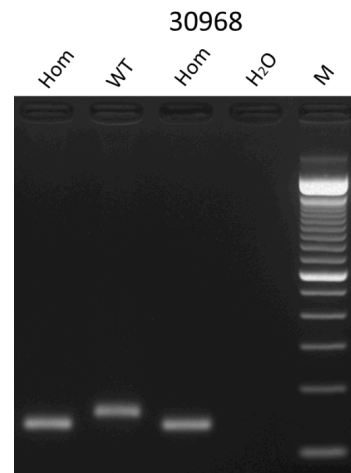
Bands: **D9Jmp132:** MUTANT: 133bp; WT: 151bp
D9Jmp106: MUTANT: 117bp; WT: 129bp

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

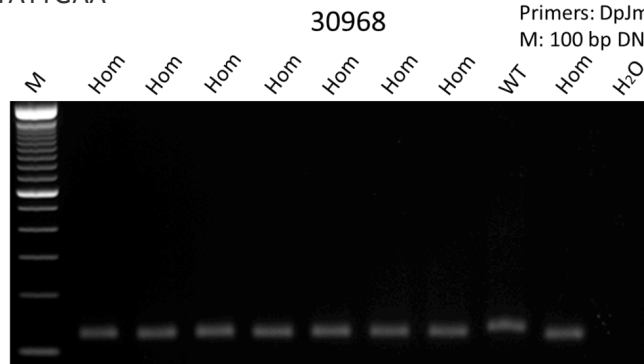
Primer sequences 5' to 3':

D9Jmp106F: CTTTCTTGCCCCCTTCATTA
D9Jmp106R: CCAGTCACAAACACATGGACA
DpJmp132F: CGGTCCAATTAGTTCGGTTT
DpJmp132R: GATGGGACTCGGCTATTGAA

Run on **3.0%** agarose gel in TAE.



30968
 Primers: DpJmp132F + DpJmp132R
 M: 100 bp DNA ladder (Invitrogen)



30968
 Primers: D9Jmp106F + D9Jmp106F; M: 100 bp DNA ladder (Invitrogen)