

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	281
MMRRC Strain Name	STOCK Tg(Grm1-EGFP)BC25Gsat/Mmnc
Gene Name(s)	glutamate receptor, metabotropic 1 (grm1)
Breeding Protocol(s)	outcross to SW
Protocol Date	4/18/19

MMRRC #281 PCR Reaction

Thermal Cycler:

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

	<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

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

Bands: WT: No Band MUTANT: ~750bp

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

Grm(281)5 GCGCGCCCAACGCTTCTACCTCCCAA
 Grm(281)EGFP TAGCGGCTGAAGCACTGCA

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

