

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11626
MMRRC Strain Name	B6.129P2- <i>Grm7</i> ^{tm1Dgen} /Mmnc
Gene Name(s)	glutamate receptor, metabotropic 7 (<i>Grm7</i>)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	12/7/11

MMRRC# 11626 PCR Reaction

	<u>1X</u>
DNA	2.0
5X Buffer	5.0
10mM dNTPs	1.0
30uM Primer F/R/Neo	1.5
Taq	0.5
ddH ₂ O	13.5
25mM MgCl ₂	1.5

Thermal Cycler:

94°C for 45 sec

61°C for 45 sec

72°C for 60 sec

35x

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

Bands: MUTANT: 438bp

WT: 197bp

Primer sequences 5' to 3': Primers are 10uM with respect to each primer (30uM total).

NIH0666(11626) GS2 CCTCAAGATGTTGGCTACCATGATGG

NIH0666(11626) GS3 TCCTGGACACTTGTTCCAGGGACAC

NIH0666(11626) Neo GGGCCAGCTCATTCTCCCACTCAT

Run on 2.0% agarose gel in TAE.