

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	16
MMRRC Strain Name	B6;129- <i>Npr3</i> ^{tm1Unc} /Mmnc
Gene Name(s)	Natriuretic peptide receptor 3 (Npr3)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	11/9/11

MMRRC #16 PCR Reaction

	1X
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
10 uM Primer F/R	1/1
Taq	0.5
ddH ₂ O	13.0
25mM MgCl ₂	2.0

Note: 2,2 primer reactions (NprC3' + NprC5') for the wild-type reaction and (NprC3' + Neo2) for the mutant reaction

Thermal Cycler:

94°C for 30 sec

60°C for 30 sec

72°C for 45 sec

40x

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

Bands: MUTANT: 413bp

WT: 262bp

Primer sequences 5' to 3':

NprC3'(16): CTTGGATGTAGCGCACTATGTC

NprC5'(16): CACAAGGACACGGAATACTC

Neo2(16): ACGCGTCACCTTAATATGCG

Run on 2.0% agarose gel in TAE.