

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	29886
MMRRC Strain Name	B6.129S4- <i>Dnmt3b</i> ^{tm2Enl} /Mmnc
Gene Name(s)	DNA methyltransferase 3B (Dnmt3b)
Breeding Protocol(s)	Intra-Strain Mating (homozygous lethal)
Protocol Date	3/14/12

MMRRC# 29886 PCR Reaction

	<u>1X</u>
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
10 uM Primer P1/P2	1/1
Taq	0.5
ddH ₂ O	13.0
25mM MgCl ₂	2.0

Note: This strain is homozygous lethal

Thermal Cycler:

94°C for 30 sec

65°C for 45 sec

72°C for 45 sec

35x

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

Bands: MUTANT: 289bp

WT: No band

Primer sequences 5' to 3':

P1 (29886): TCA CAG GGT ACT TGG TGC TCA AGG

P2 (29886): ACA CTC CAA CCT CCG CAA ACT CCT

Run on 2.0% agarose gel in TAE.