

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	14246
MMRRC Strain Name	B6.Cg-Tg(Rarb-cre)1Bhr/Mmnc
Gene Name(s)	Retinoic acid receptor, beta (Rarb)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	8/25/11

MMRRC# 14246 PCR Reaction

	<u>1X</u>
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

Thermal Cycler:

94°C for 30 sec

64°C for 30 sec

72°C for 60 sec

35x

Taq: Apex and Chromataq 5X Buffer

Bands: Tg+: ~1.1 kb

WT: No Band

Primer sequences 5' to 3': Primers are 10uM with respect to each primer (20uM total).

Cre-Fw6: 5'-GAAACAGGGGCAATGGTGCCTGCTG-3'

mMt1-Rv1: 5'-AGGAAGACGCTGGGTTGGTCCGATACT-3'

Run on 2.0% agarose gel in TAE.