

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11654
MMRRC Strain Name	B6;129S5- <i>Rgs14</i> ^{tm1Lex} /Mmnc
Gene Name(s)	Regulator of G-protein signaling 14 (Rgs14)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	12/9/13

MMRRC #11654 PCR Reaction

	<u>1X</u>
ddH ₂ O	13.0
5X Buffer	5.0
25mM MgCl ₂	2.0
10mM dNTPs	0.5
10uM WT Primers F	1
10uM Mut Primers R	1
Taq	0.5
DNA	2.0

Thermal Cycler:

94°C for 30 sec

58°C for 45 sec

72°C for 60 sec

35x

Taq: Apex Taq and Chromataq 5X Buffer

Bands: MUTANT: ~500bp

WT: 400bp

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

1289-1: CTATGCGCGCTTCGTCAAATC

1289-2: CTGGCGGCATCATTCTAGGG

Neo3a: GCAGCGCATCGCCTTCTATC

NIH-1289alt9: ATGGCTCCACCTGTCATCTCTAAGG

Run on 2.0% agarose gel in TAE.

