

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11629
MMRRC Strain Name	B6.129P2- <i>Kcnh5</i> ^{tm1Dgen} /Mmnc
Gene Name(s)	potassium voltage-gated channel, subfamily H (eag-related), member 5 (<i>Kcnh5</i>)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	1/13/14

MMRRC# 11629 PCR Reaction

	<u>1X</u>
DNA	1.0
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

62°C for 45 sec

72°C for 60 sec

35x

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

Bands: MUTANT: 391bp
 WT: 272bp

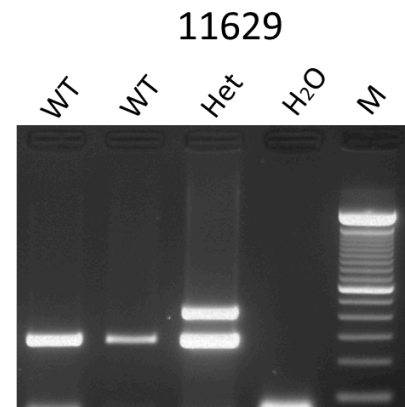
Primer sequences 5' to 3': Primers are 10uM with respect to each primer (30uM total).

NIH1127(11629) GS1: 5': AGTCACAGCTGTCTTCAGAGGCGTC

NIH1127(11629) GS2: 5': CACCACACTGTCCAGAACCAGCCAG

NIH1127(11629) Neo: 5': GGGTGGGATTAGATAAATGCCTGCTCT

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)