

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11949
MMRRC Strain Name	B6.129S6- <i>Gck</i> ^{tm1.1Mgn} /Mmnc
Gene Name(s)	Glucokinase (Gck)
Breeding Protocol(s)	Intra-strain Mating
Protocol Date	10/28/13

MMRRC# 11949 PCR Reaction

	1X
DNA	1.0
10X Buffer	5.0
10mM dNTPs	1.0
20 uM Primer 1 & 2	1.5
Taq	1.0
ddH ₂ O	13.5
25mM MgCl ₂	2.0

Denaturing: 94°C for 60 sec
 Annealing Temp: 60°C for 30 sec
 Extension: 72°C for 30 sec
 Cycles: 40

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

Bands: MUTANT: 741bp
 WT: 636bp

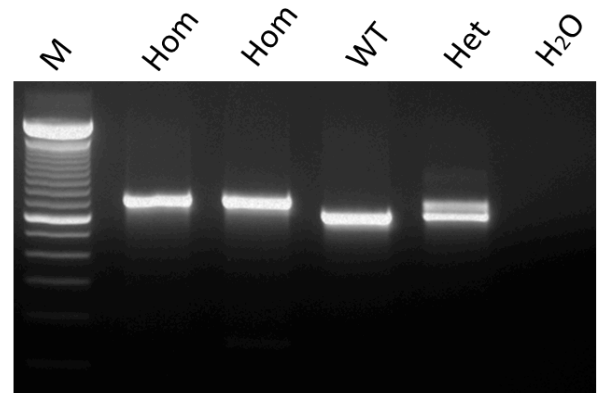
Primer sequences 5' to 3': Primers are 10uM with respect to each primer (20uM total).

GKP2 5'-TGT CTC AAT TTG CTG TGT CCT CCA-3'

GKP8 5'-ATG TGT GAG TGT GCC AAT AT GAG T-3'

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Run on 2% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)