

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11950
MMRRC Strain Name	STOCK <i>Pck1</i> ^{tm1.1Mgn} /Mmnc
Gene Name(s)	phosphoenolpyruvate carboxykinase 1, cytosolic (pck1)
Breeding Protocol(s)	Random Intra-Strain Mating
Protocol Date	4/25/12

MMRRC# 11950 PCR Reaction

Thermal Cycler:

94°C for 6 min
 94°C for 60 sec
 60°C for 30 sec
 72°C for 30 sec
 Steps 2-4, 40x
 72°C for 7 min

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

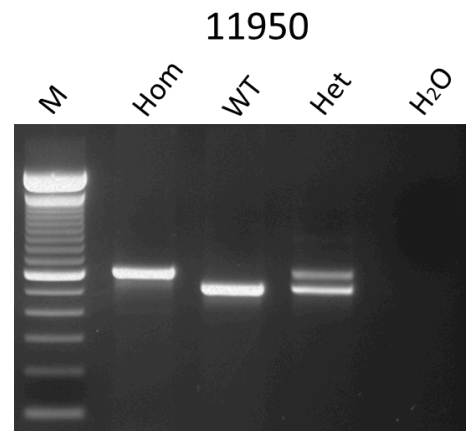
	<u>1X</u>
ddH ₂ O	13
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10 uM Primer F	1
10 uM Primer R	1
Taq	0.5
DNA	2

Bands: MUTANT: 618bp
 WT: 518bp

Primer sequences 5' to 3':

mPEP17a: 5'-TCT GTC AGT TCA ATA CCA ATC T-3'
 mPEP18a: 5'-AAT GTT CTC TGC AAG TCC TGG TG-3'

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)