

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	14111
MMRRC Strain Name	STOCK <i>Chek2^{tm1Pjs}/Mmnc</i>
Gene Name(s)	CHK2 checkpoint homolog (Chek2)
Breeding Protocol(s)	Backcross
Protocol Date	02/10/14

MMRRC #14111 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 57°C for 30 sec
 Step 4: 72°C for 45 sec
 Step 5: 34x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

	1X
ddH ₂ O	13
5X Buffer	5.0
25 mM MgCl ₂	2
10 mM dNTPs	0.5
10 μM Primer F	1
10 μM Primer R	1
Taq	0.5
DNA	2

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

Chk-F (14111): CGGGACTTAAAGCCGGAGAATG

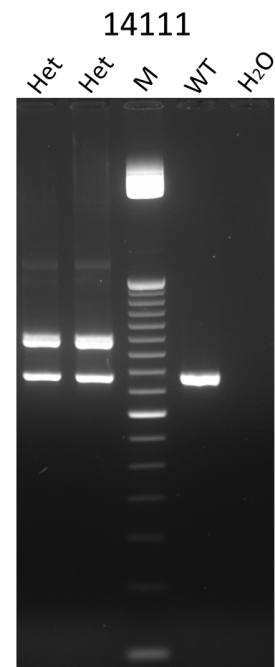
Chk-R (14111): CACGACACTATGGGACATCTGGAGA

Bands expected:

WT: 437bp

MUTANT: ~500 bp

Run on 2% agarose gel in TAE.



M: 50 bp DNA ladder (Invitrogen)