

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	30044
MMRRC Strain Name	STOCK <i>Nkx2-1^{tm1Shk}</i> /Mmnc
Gene Name(s)	NK2 homeobox 1 (Nkx2-1)
Breeding Protocol(s)	Intra-Strain Mating (homozygote mice die at birth)
Protocol Date	11/25/13

MMRRC# 30044 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 45 sec

Step 2: 57°C for 45 sec

Step 3: 72°C for 1 min

Cycles: 40

Taq: **Apex and ChromaTaq Buffer**

Bands: WT: 250bp
 Targeted: 220bp

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

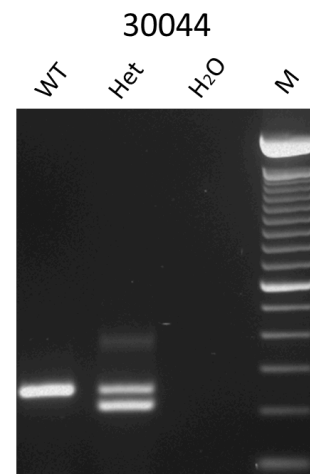
1: GGC GAG CGG CAT GAA TAT GA

2: TCT TGT AGC GGT GGT TCT GGA

3: TCG CCT TCT ATC GCC TTC TTG ACG AG

Run on 2% agarose gel in TAE.

	<u>1X</u>
DNA	1.0
5X Buffer	5.0
10mM dNTPs	1.0
10 uM Primer 1&2&3	1.5
Taq	1.0
ddH ₂ O	13.5
25mM MgCl ₂	2.0



M: 100 bp DNA ladder (Invitrogen)