

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	30262
MMRRC Strain Name	STOCK Tg(Mef2c-cre)2Blk/Mmnc
Gene Name(s)	Myocyte enhancer factor 2C (Mef2c)
Breeding Protocol(s)	Backcross to ICR/Tac
Protocol Date	11/4/13

MMRRC# 30262 PCR Reaction

	<u>1X</u>
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
20 uM Primer F/R	1.0
Taq	0.5
ddH ₂ O	14.5
25mM MgCl ₂	1.5

Thermal Cycler:

94°C for 45 sec

55°C for 45 sec

72°C for 60 sec

35x

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

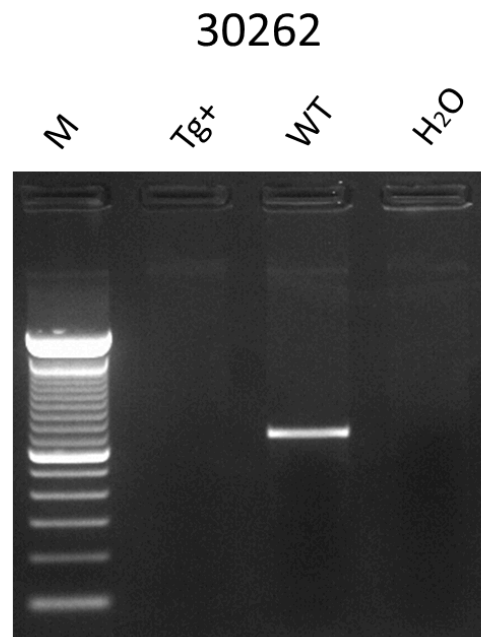
Bands: ~700bp for Cre

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

CreA 5' TGCCACGACCAAGTGACAGC

CreB 5' CCAGGTTACGGATATAGTTCATG

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)