

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	10569
MMRRC Strain Name	STOCK Tg(Pax2-cre)1Akg/Mmnc
Gene Name(s)	Transgene insertion 1 Tg(Pax2-cre)1Akg
Breeding Protocol(s)	Outcross to CD-1
Protocol Date	11-18-13

MMRRC# 10569 PCR Reaction

	<u>1X</u>
DNA	1.0
10X Buffer	2.5
10mM dNTPs	1.0
10 uM Primer 1 & 2	1.0
Taq	1.0
ddH ₂ O	16.0
25mM MgCl ₂	2.0

Thermo Cycler:

Denaturing: 94°C for 45 sec
 Annealing Temp.: 67°C for 45 sec
 Extension: 72°C for 1 min
 Cycles: 35

Taq: **Apex and Chromataq Buffer**

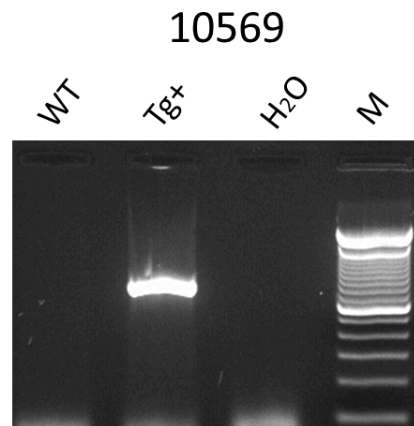
Bands: Cre⁺: 700bp

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

Cre1F: GCC TGC ATT ACC GGT CGA TGC AAC GA

Cre1R: GTG GCA GAT GGC GCG GCA ACA CCA TT

Run on 2% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)