

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	31888
MMRRC Strain Name	B6.129(SJL)- <i>Myt1</i> ^{tm1(EGFP/icre)<i>Ldh</i>} /Mmnc
Gene Name(s)	Myelin transcription factor 1 (<i>Myt1</i>)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	11/11/13

MMRRC# 31888 PCR Reaction

NOTE: Run 2 reactions for each sample (WTF + WTR) and (TgF + TgR).

Thermal Cycler:

94°C for 30 sec
 55°C for 30 sec
 72°C for 60 sec
 30x

	1X
DNA	2.0
5X Buffer	5.0
10mM dNTPs	1.0
10 uM Primer F/R	1/1
Taq	1.0
ddH ₂ O	15.0
25mM MgCl ₂	1.5

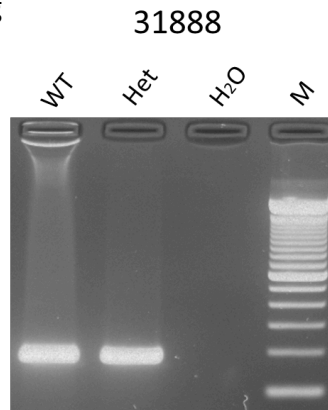
Taq: **Apex and Chromataq 5X Buffer**

Bands: MUTANT: 325bp
 WT: 188bp

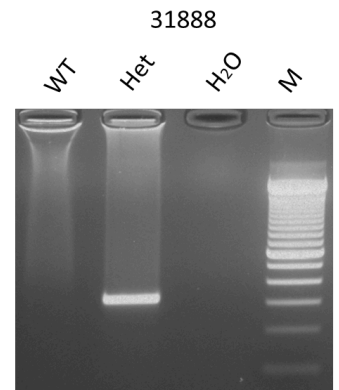
Primer sequences 5' to 3':

*Myt1*tgF (31888): cagccataccacatttgagagg
*Myt1*tgR (31888): tgcattggcactgaatcgatgg
*Myt1*wtF (31888): ccaacttgcttcttttgggtccc
*Myt1*wtR (31888): ggctcgcttgtcatcactttc

Run on 2.0% agarose gel in TAE.



Primers: TgF + TgR
 M: 100 bp DNA ladder (Invitrogen)



Primers: WTF + WTR
 M: 100 bp DNA ladder (Invitrogen)