

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	36548
MMRRC Strain Name	STOCK <i>Smarca4</i> ^{tm1.2Pcn} /Mmnc
Gene Name(s)	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4; targeted mutation 1, Pierre Chambon (<i>Smarca4</i> ^{tm1Pcn})
Breeding Protocol(s)	Sib-mating (homozygous x homozygous)
Protocol Date	2/25/16

MMRRC# 36548 PCR Reaction

Thermal Cycler:

94°C for 5 min
 94°C for 30 sec
 60°C for 30 sec
 72°C for 60 sec
 35x
 72°C for 7 min

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

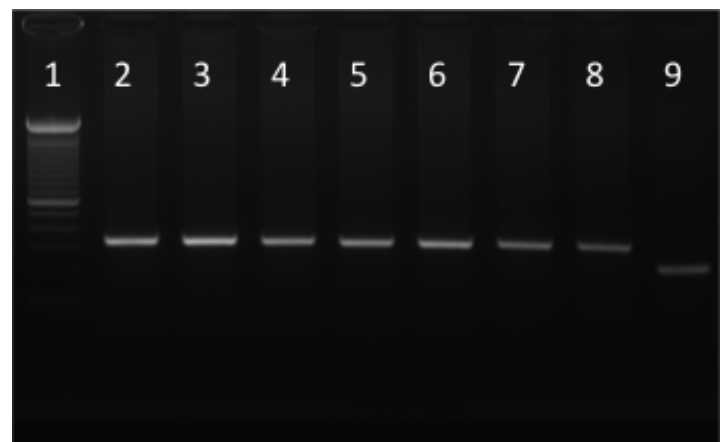
Bands: MUTANT: 390bp
 WT: 246bp

Primer sequences 5' to 3':

OSB131: GCCTTGCTCTCAAAGTATAAG
 OSB132: GTCATACTTATGTCATAGCC

Run on 2.0% agarose gel in TAE.

	<u>1X</u>
ddH ₂ O	13
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10 uM Primer F	1
10 uM Primer R	1
Taq	0.5
DNA	2



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|----------------------|----------------------|
| 1. 100bp Marker | 6. Homozygous Sample |
| 2. Homozygous Sample | 7. Homozygous Sample |
| 3. Homozygous Sample | 8. Homozygous Sample |
| 4. Homozygous Sample | 9. Wild-type Sample |
| 5. Homozygous Sample | |