

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	36891
MMRRC Strain Name	B6;129S6- <i>Smarca4</i> ^{tm1.1A_{xvi}} /Mmnc
Gene Name(s)	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 (<i>Smarca4</i>)
Breeding Protocol(s)	Sib-mating
Protocol Date	3/10/2017

MMRRC #36891 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 45 sec

Step 3: 62°C for 45 sec

Step 4: 72°C for 60 sec

Step 2 to 4 Cycles: 35

Step 5: 72°C for 7 min

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

	1X
ddH ₂ O	13
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	0.5
DNA	2

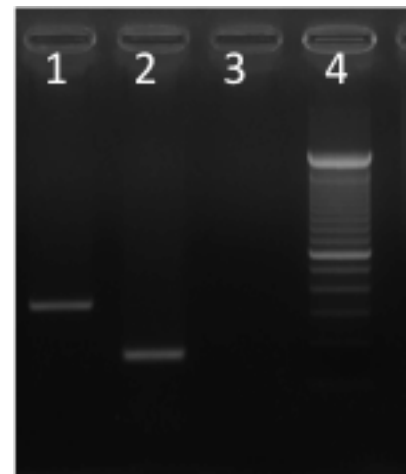
Bands: WT: 172bp

MUTANT: 344bp

Primer sequences 5' to 3': Primers are 10uM with respect to each primer

For(36891): ACACCATGGACAAGGGAGAGTGCCTA

Rev(36891): CCATCACTGCTAAGGGCTACTCCATCT



1. Homozygous Sample
2. Wild-type Control
3. Negative Control
4. 100bp Marker (Invitrogen)