

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	43540
MMRRC Strain Name	B6;129S4- <i>Cdkn2a</i> ^{tm2.1Nesh} /Mmnc
Gene Name(s)	cyclin-dependent kinase inhibitor 2A (Cdkn2a)
Breeding Protocol(s)	Sib-mating
Protocol Date	7/17/18

MMRRC #43540 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 55°C for 30 sec

Step 4: 72°C for 30 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

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

Bands: MUTANT: 261bp

WT: 194bp

	1X
ddH ₂ O	12
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2

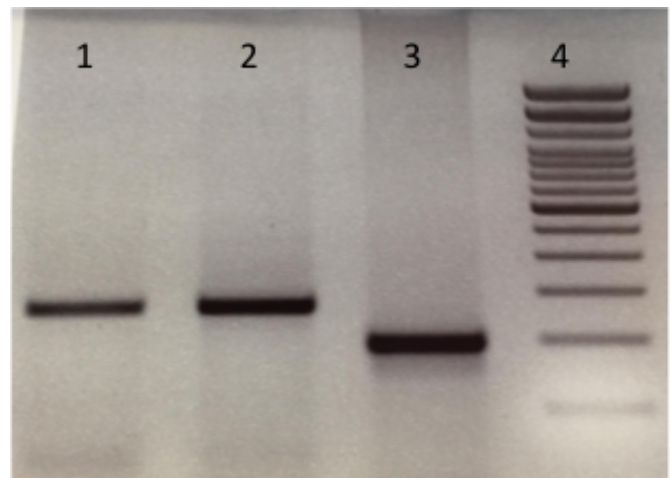
Primer sequences 5' to 3': Primers are 10uM with respect to each primer

p16(43540)loxF GTATGCTATACGAAGTTATTAGGTACTGC

p16(43540)WTF GTT TTG GAG CAG CAG GGA TT

p16(43540)ComR CTA TGT CAG ATT TGG CTA GGG AGT

Run on 2.0% agarose gel in TAE.



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