

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	41176
MMRRC Strain Name	STOCK <i>Cas1^{tm1.1Flc}/Mmnc</i>
Gene Name(s)	castor zinc finger 1 (<i>Cas1</i>)
Breeding Protocol(s)	Sib-mating
Protocol Date	4/9/19

PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 57°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**

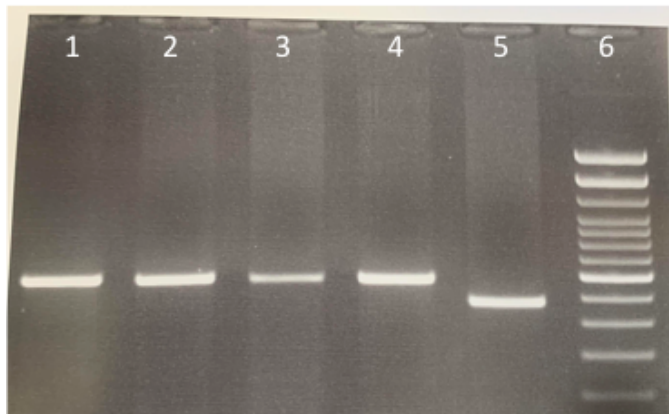
Bands: WT: 471bp MUTANT: 571bp

	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

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

Cas(41176)F: CAGAGGAACTGTCTCCACTGTC

Cas(41176)Rev: GTTCTGTTGCTGGGTTAGGTT



1. Homozygous Sample
2. Homozygous Sample
3. Homozygous Sample
4. Homozygous Sample
5. Wild-type Control
6. 100bp Ladder (Invitrogen)