

MMRRC UNC – Genotyping Protocol

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|-----------------------------|---|
| MMRRC Strain ID | 36983 |
| MMRRC Strain Name | B6;129S4- <i>Mov10l1</i> ^{tm1.1Jw} /Mmnc |
| Gene Name(s) | Moloney leukemia virus 10-like1 (Mov10l1) |
| Breeding Protocol(s) | Sib-mating |
| Protocol Date | 11/20/15 |

MMRRC #36983 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 45 sec

Step 3: 56°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 |

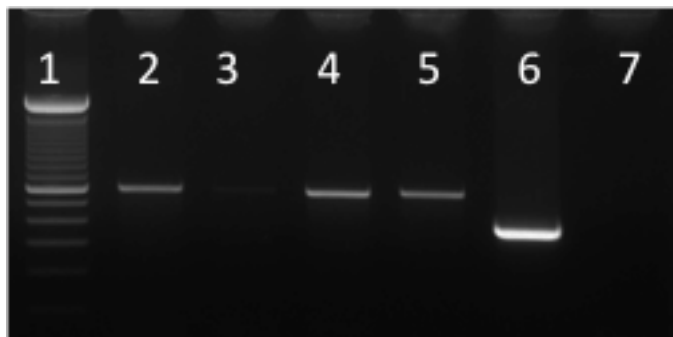
Bands: WT: 398bp

MUTANT: 592bp

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

Mov(36983)For: GGCCTATGGGTTGAATGTGT

Mov(36983)Rev: CAGGAAGAGCAGGTGAAGTG



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