**mTmG Genotyping**

Primers:

mTG-F: 5’-CTC TGC TGC CTC CTG GCT TCT-3’

mTG-WT-R: 5’-CGA GGC GGA TCA CAA GCA ATA-3’

mTG-mutant-R: 5’-TCA ATG GGC GGG GGT CGT T-3’

Mix for 12uL

2ul DNA

1.2uL of 10x PCR Buffer (with MgCl2)

0.2uL 10mM dNTP

0.6uL 20uM mTG-F

0.4uL 20uM mTG-WT-R

0.8uL 20uM mTG-mutant-R

6.75uL H20

0.05uL taq

PCR Program:

1. 94 for 3min
2. 94 for 30sec
3. 61 for 1min
4. 72 for 1min
5. Got to step 2 for 34 times
6. 72 for 2min
7. 10 for ever

WT band: 330 bp

mTG band: 250 bp