

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	16151
MMRRC Strain Name	B6.129S6- <i>Ereg</i> ^{tm1Dwt} /Mmnc
Gene Name(s)	Epiregulin (Ereg)
Breeding Protocol(s)	Backcross to C57B/6J
Protocol Date	9/18/15

MMRRC# 16151 PCR Reaction

	<u>1X</u>
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
10uM Primer F/R/Mutant	1/1/1
Taq	0.5
ddH ₂ O	12.0
25mM MgCl ₂	2.0

Thermal Cycler:

94°C for 30 sec

58°C for 30 sec

72°C for 30 sec

35x

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

Bands: MUTANT: 253bp

WT: 156bp

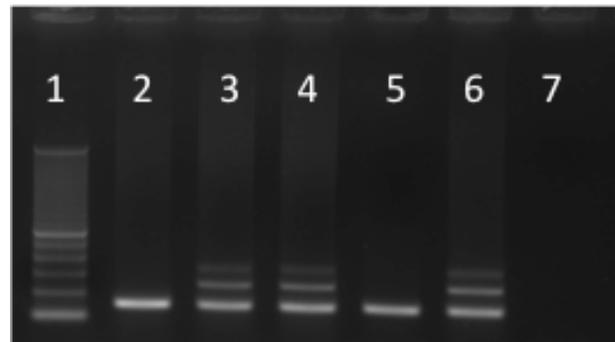
Primer sequences 5' to 3':

Ereg-S3, 5'-CTCAGAGTCACAGCGACTTG-3'

Ereg-AS1, 5'-CAGCGTCAAGACCCAAGAGG-3'

lacZ-AS2, 5'-GCTGCAAGGCGATTAAGTTGG-3'

Run on 2.0% agarose gel in TAE.



1. 100 BP Marker
2. Wild-type Sample
3. Heterozygous Sample
4. Heterozygous Sample
5. Wild-type Control
6. Heterozygous Positive Control
7. Negative Control