



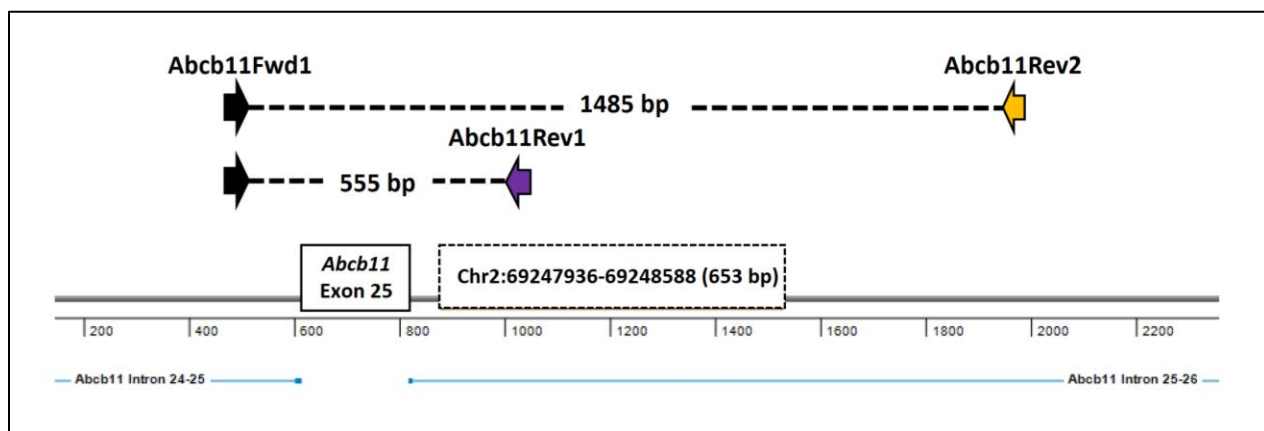
# Vanderbilt Genome Editing Resource

## GENOTYPING PROTOCOL: *Rr327<sup>em1Mgn</sup>/Vu*

**Investigator:** Mark Magnuson

**Genome edit:**  $\Delta$ Chr2:69247936-69248588 (mm10)

**Common allele name:** *Rr327<sup>em1Mgn</sup>/Vu*



### PCR Primers:

Abcb11Fwd1: GTCACCCACTGAGTTGCTGTC

Abcb11Rev1: GTCAGCAGGACATCTGGAACTG

Abcb11Rev2: CAGATCTCTAGGACAATGCACTTCC

### Predicted PCR product sizes:

Homozygous *Rr327<sup>em1Mgn</sup>/Vu* = 832 bp (1485 bp – 653 bp)

Heterozygous *Rr327<sup>em1Mgn</sup>/Vu* = 832 bp + 555 bp + weak or absent 1485 bp

WT = 555 bp + weak or absent 1485 bp

Component	25 ul reaction	Final concentration	PCR program
5X Phusion Reaction Buffer (NEB #M0530S)	5.0 µL	1X	98°C, 30 seconds
10 mM dNTPs	0.5 µL	200 µM	98°C, 10 seconds
10 µM Abcb11Fwd1	1.25 µL	0.5 µM	65°C, 10 seconds
10 µM Abcb11Rev1	0.625 µL	0.25 µM	72°C, 30 seconds
10 µM Abcb11Rev2	0.625 µL	0.25 µM	Go to 2, 38 X
Phusion DNA Polymerase (NEB #M0530S)	0.25 µL	0.02 U/µl	72°C, 2 minutes
Nuclease-free water	16.25 µL		4°C, ∞
Genomic DNA	0.5 µL	Less than 1 µg	

