



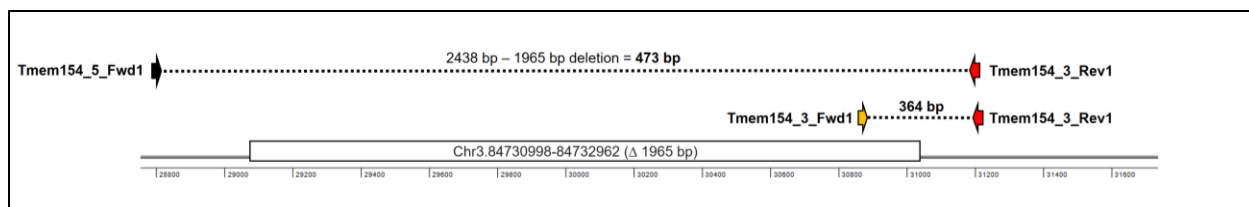
Vanderbilt Genome Editing Resource

GENOTYPING PROTOCOL: *Rr414*^{em1Mgn/Vu}

Investigator: Mark Magnuson

Genome edit: Chr3:Δ84730998-84732962 (mm10)

Common allele name: *Rr414*^{em1Mgn}



PCR Primers:

Tmem154_5_Fwd1: GCTTCACCTCTGACTTCAGGAGT

Tmem154_3_Fwd1: AGGCTTGGCAGGTGTTTATGG

Tmem154_3_Rev1: ACCTGACTGCTGCTTACTCTGTCG

Predicted PCR product sizes:

Homozygous = *Rr414^{em1Mgn}* = 473 bp

Heterozygous = *Rr414^{em1Mgn}* = 473 bp and 364 bp

WT = 364 bp

Component	25 ul reaction	Final concentration	PCR program
5X Phusion Reaction Buffer (NEB #M0530)	5.0 µL	1X	98°C, 30 seconds
10 mM dNTPs	0.5 µL	200 µM	98°C, 10 seconds
10 µM Tmem154_5_Rev1	1.25 µL	0.5 µM	66°C, 10 seconds
10 µM Tmem154_5_Fwd1	0.625 µL	0.25 µM	72°C, 30 seconds
10 µM Tmem154_3_Rev1	0.625 µL	0.25 µM	Go to 2, 35 X
Phusion DNA Polymerase (NEB #M0530)	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	

