

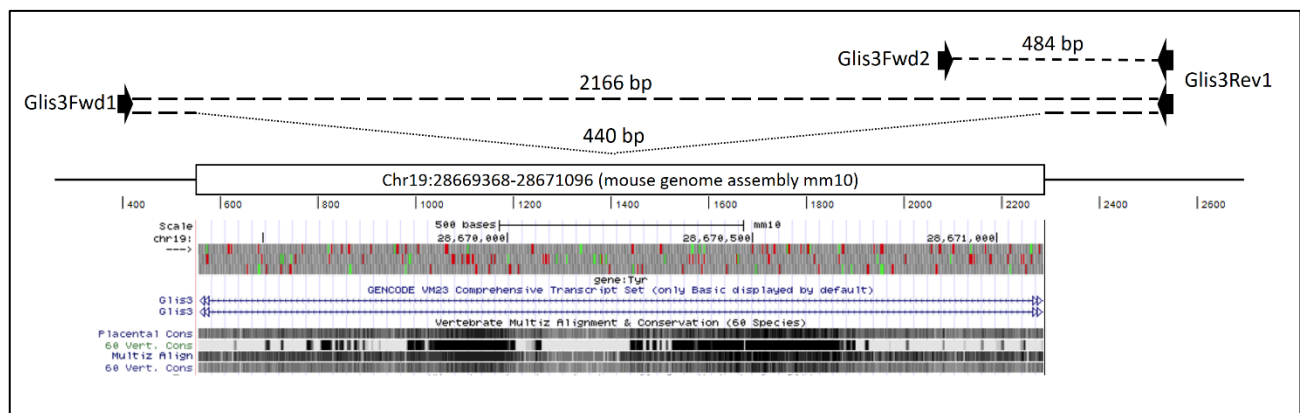
Vanderbilt Genome Editing Resource

GENOTYPING PROTOCOL: *Rr*^{Chr19Glis3Δ1729Mgn/Vu}

Investigator: Mark Magnuson

Genome edit: Chr19:28669368-28671096 (mm10)

Common allele name: *Rr*^{Chr19Glis3Δ1729Mgn/Vu}



PCR Primers:

Glis3Fwd1: GCACCATATACCTGACCGATG

Glis3Fwd2: CTAAGCTGTAGCGCAGAACTC

Glis3Rev1: CGTCTTGGCCATACTTATACCTG

Predicted PCR product sizes:

Homozygous = $Rr^{Chr19Glis3\Delta1729Mgn}/Vu = 440$ bp

Heterozygous = $Rr^{Chr19Glis3\Delta1729Mgn}/Vu = 440$ bp and 484 bp

WT = 484 bp

The following PCR program does not amplify the full length WT product of 2166 bp, but extension times can be adjusted if desired.

Component	25 ul reaction	Final concentration	PCR program
5X Phusion Reaction Buffer (NEB #M0530)	5.0 μ L	1X	98°C, 30 seconds
10 mM dNTPs	0.5 μ L	200 μ M	98°C, 10 seconds
10 μ M Glis3_Rev1	1.25 μ L	0.5 μ M	63°C, 10 seconds
10 μ M Glis3_Fwd1	0.625 μ L	0.25 μ M	72°C, 30 seconds
10 μ M Glis3_Fwd2	0.625 μ L	0.25 μ M	Go to 2, 35 X
Phusion DNA Polymerase (NEB #M0530)	0.25 μ L	0.02 U/ μ l	72°C, 2 minutes
Nuclease-free water	16.25 μ L		4°C, ∞
Genomic DNA	0.5 μ L	Less than 1 μ g	

