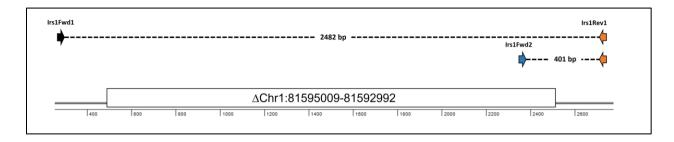


GENOTYPING PROTOCOL: Rr413em1Mgn/Vu

Investigator: Mark Magnuson

Genome edit: ΔChr1:81595009-81592992 (mm10)

Common allele name: Rr413^{em1Mgn}/Vu



PCR Primers:

Irs1Fwd1: ACCTGCTTTCTGCTCTCTC
Irs1Rev1: AGCTCTGCCCAAATGTTAAGGAG
Irs1CRFwd2: CCACCTCCACTACCACCTATATG

Predicted PCR product sizes:

Homozygous $Rr413^{em1Mgn}/Vu = 464 \text{ bp } (= 2482 \text{ bp} - 2018 \text{ bp})$

Heterozygous $Rr413^{em1Mgn}/Vu = 464 \text{ bp} + 401 \text{ bp} + \text{weak or absent } 2482 \text{ bp}$

WT = 401 bp + weak or absent 2482 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 μΜ	98°C, 10 seconds
10 μM Irs1Rev1	1.25 µL	0.5 μΜ	66°C, 10 seconds
10 μM Irs1Fwd1	0.625 µL	0.25 μΜ	72°C, 30 seconds
10 μM Irs1CRFwd2	0.625 µL	0.25 μΜ	Go to 2, 38 X
Phusion DNA Polymerase (NEB #M0530S)	0.25 μL	0.02 U/µI	72°C, 2 minutes
Nuclease-free water	16.25 µL		4°C, ∞
Genomic DNA	0.5 µL	Less than 1 µg	

