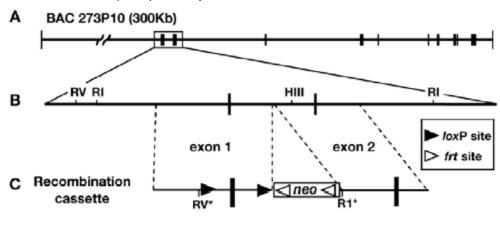
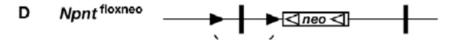
Genotyping Protocol: MMRRC 30111

Assay Type: PCR- can distinguish heterozygous animals from homozygous animals

DNA Extraction: DNA from tail snips was extracted using Qiagen's DNeasy Blood and Tissue kit (Cat# 69506). Kit directions for animal tissues were performed with a few minor modifications as follows: repeat AW1 and AW2 wash steps one time, elute in 200ul of AE buffer once.

Strain Description: This strain carries a floxed allele of the nephronectin (*Npnt*) gene. Exon 1 of the *Npnt* gene is surrounded by *loxP* sites, and there is a Neo cassette inserted into the intron between exons 1 and 2. Details can be found in Linton et al (2007) Development 134:2501-9.





Primer Information:

1) Name: M30111 NN1-A Sequence: 5'-CAG TCC ATC CTG ATC ACT ACT GGC TGT A-3'

2) Name: M30111 NN1-C Sequence: 5'-GCA ACC TTC AGC GTC CC-3'

Primer location: M30111 NN1-A is located in the intron between exons 1 and 2, and M30111 NN1-C is located in exon 1 of the *Npnt* gene on Chromosome 3.

Assay Name: Npnt floxed PCR

PCR Master Mix Components:

component	manufacturer	concentration	μl/rxn
10X buffer (with MgCl ₂)	Roche	10X	2
dNTPs	Promega (Cat# U1515)	1.25mM	3.2
M30111 NN1-A	Sigma	25µM	0.3
M30111 NN1-C	Sigma	25µM	0.3
FastStart Taq	Roche (Cat# 12032953001)	5 U/μl	0.2
sterile water			13

03.02.10 MS 07.30.10 HB updated 01.27.11 ECB

PCR Setup:

Final Reaction: 19µl master mix & 1µl DNA template (10-20ng/µl)

All reactions were performed in 200µl thin walled PCR tubes and were run in Perkin Elmer 2400 thermocycler or Applied Biosystems 2700 thermocycler.

Cycle Parameters:

1)	95°C	3 minutes
2)	94°C	30 seconds
3)	61°C	30 seconds
4)	72°C	30 seconds

5) Repeat steps 2-4 34 times for a total of 35 cycles

6) 72°C 10 minutes

7) 4°C hold until refrigerate product

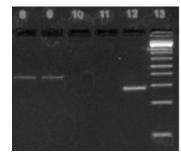
Product Analysis:

All products were analyzed on a 3% agarose gel with ethidium bromide staining.

Expected products:

WT: 279bp Mutant: 350bp

Example gel:



<350bp <279bp

Lanes 8 and 9 display homozygous samples (350bp band only). Lanes 10 and 11 are blanks.

Lane 12 is a WT control (279bp band only).

Lane 13 is 1 Kb+ Ladder (Invitrogen Cat# 10787-018).