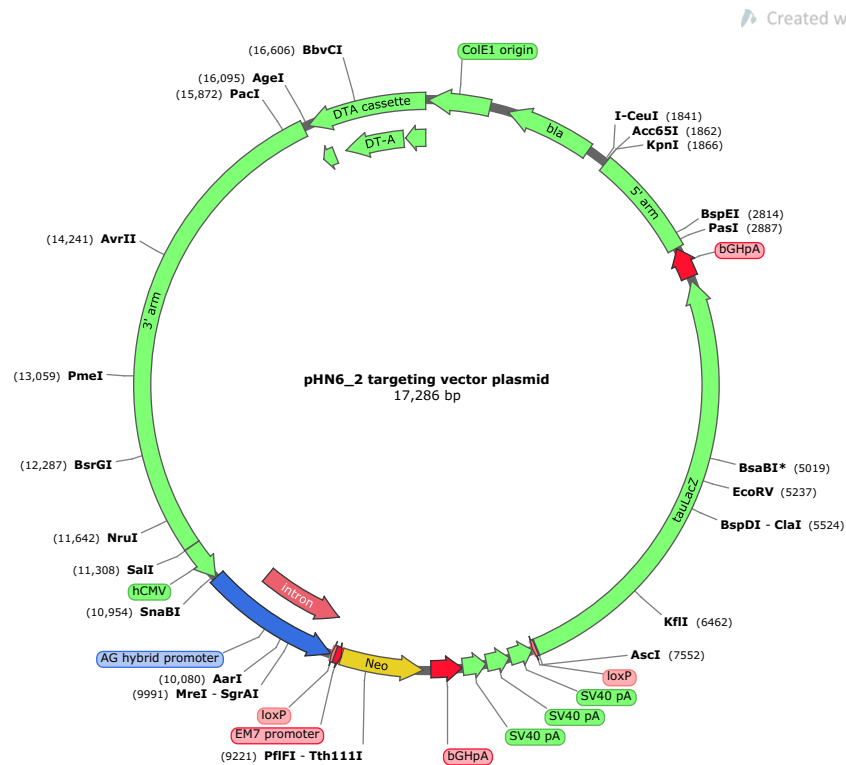


Rosa26^{StLa} allele, HN6.2 (from Hyung-song Nam, PhD thesis work and Nam and Benezra, 2009)

Targeting vector map



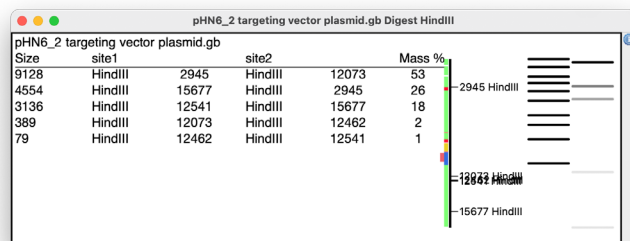
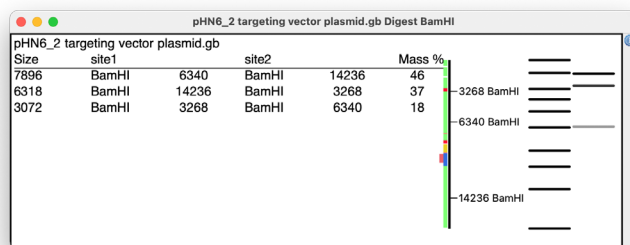
HN6 utilized the *Rosa26* promoter instead of the CAG promoter

HN6.1 had the reporter cassette in the same orientation as *Rosa26*

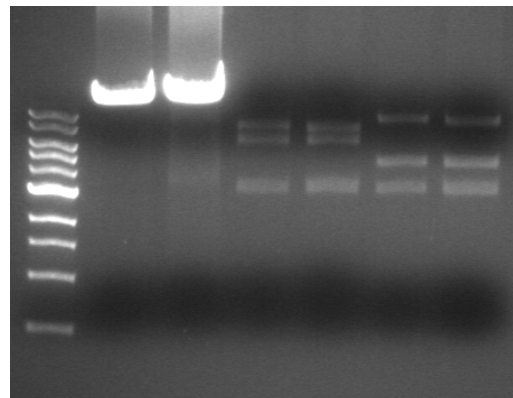
StLa reporter backbone Addgene # 182363

Targeting vector prep for electroporation

Restriction enzyme digests simulation



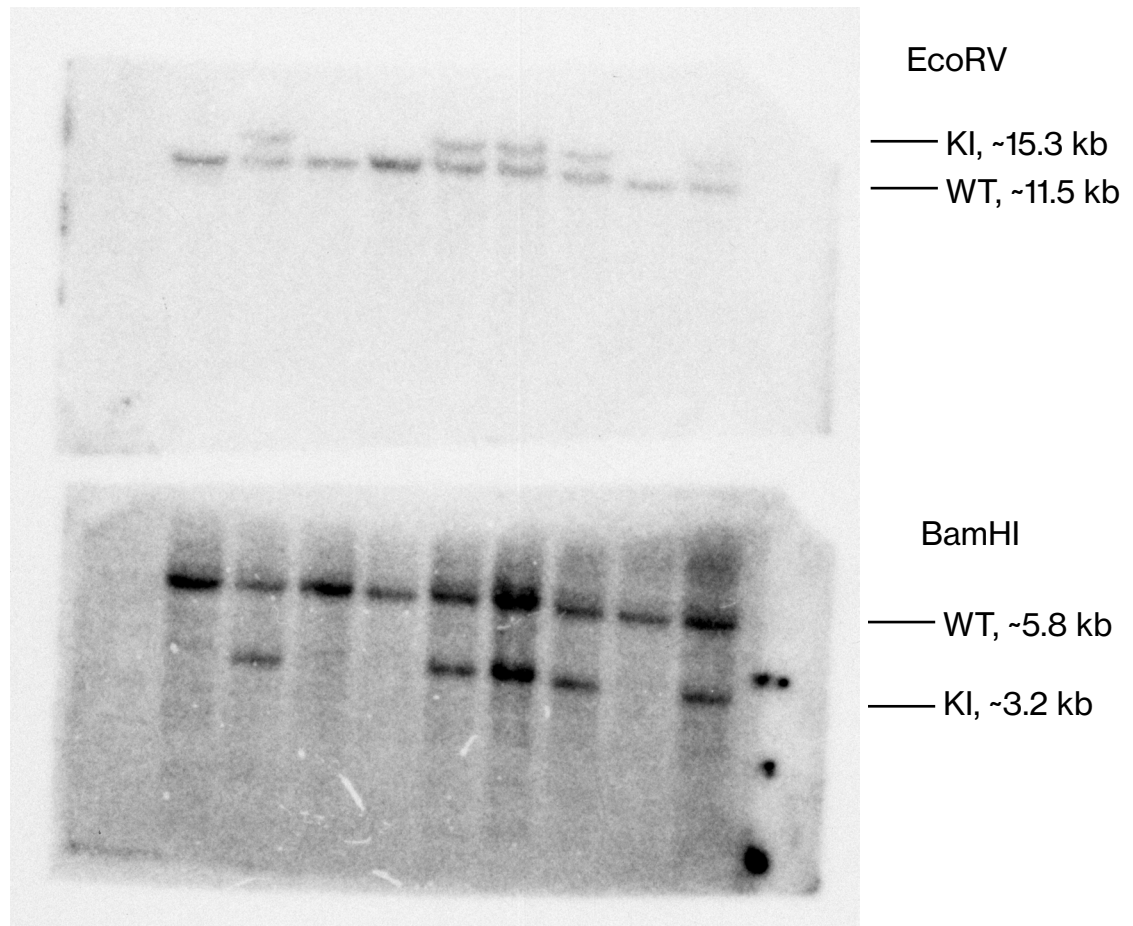
Actual gel



Lane 1, NEB 1 kb ladder
Lanes 2-3, I-CeuI digests
Lanes 4-5, BamHI digests
Lanes 6-7, HindIII digests

Electroporated CY2.4 albino B6J embryonic stem cells

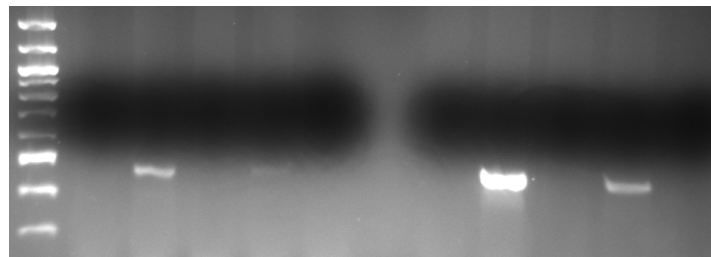
The core facility Southern blots did not work because my probe was no good
Synthesized different probes
I repeated the Southern blots to screen the ESC clones



WT gDNA, then clones 9, 10, 30, 79, 80, 105, 108, 142

Injected the targeted albino B6J ES cells into black B6J blastocysts for chimeras

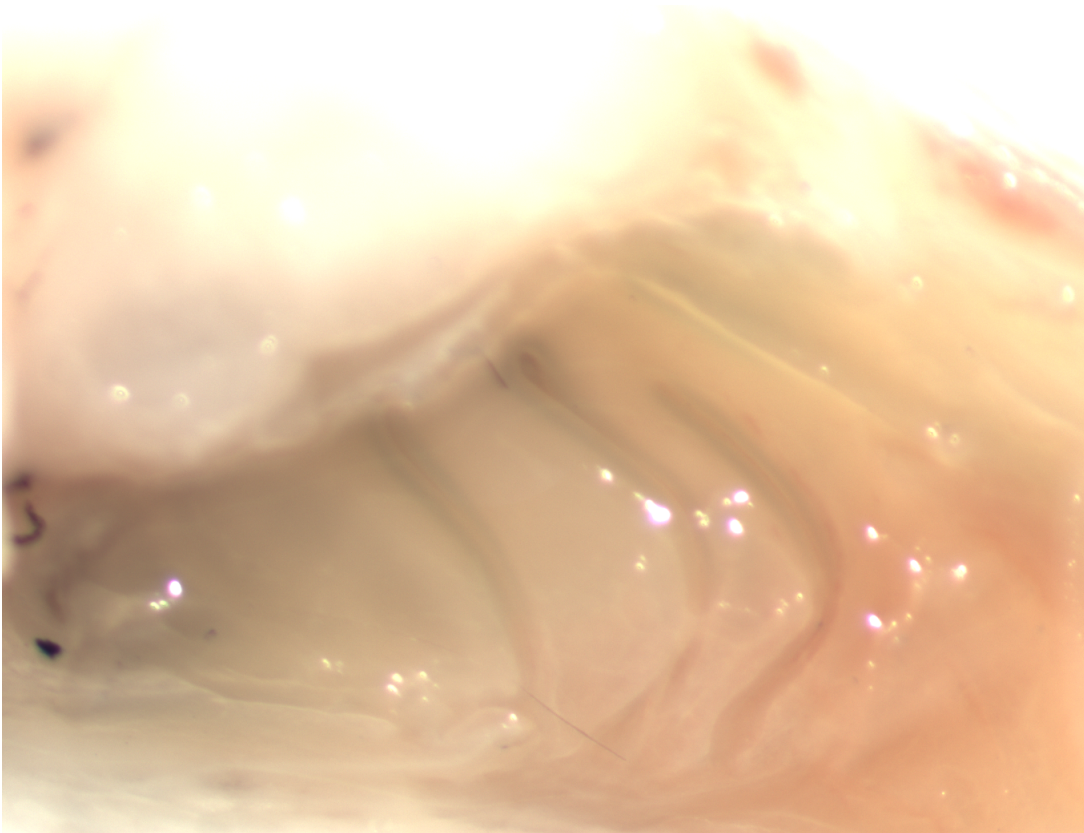
PCR genotyping of progeny from cross of chimera (clone #105) x albino B6J females



Germline transmission
Backcrossed to C57BL/6J mice from Jax
Bred to homozygosity, maintained in my colony as homozygotes

Whole mount X-gal histochemistry

Omp^{+/+}; Rosa26^{StLa/+} mouse



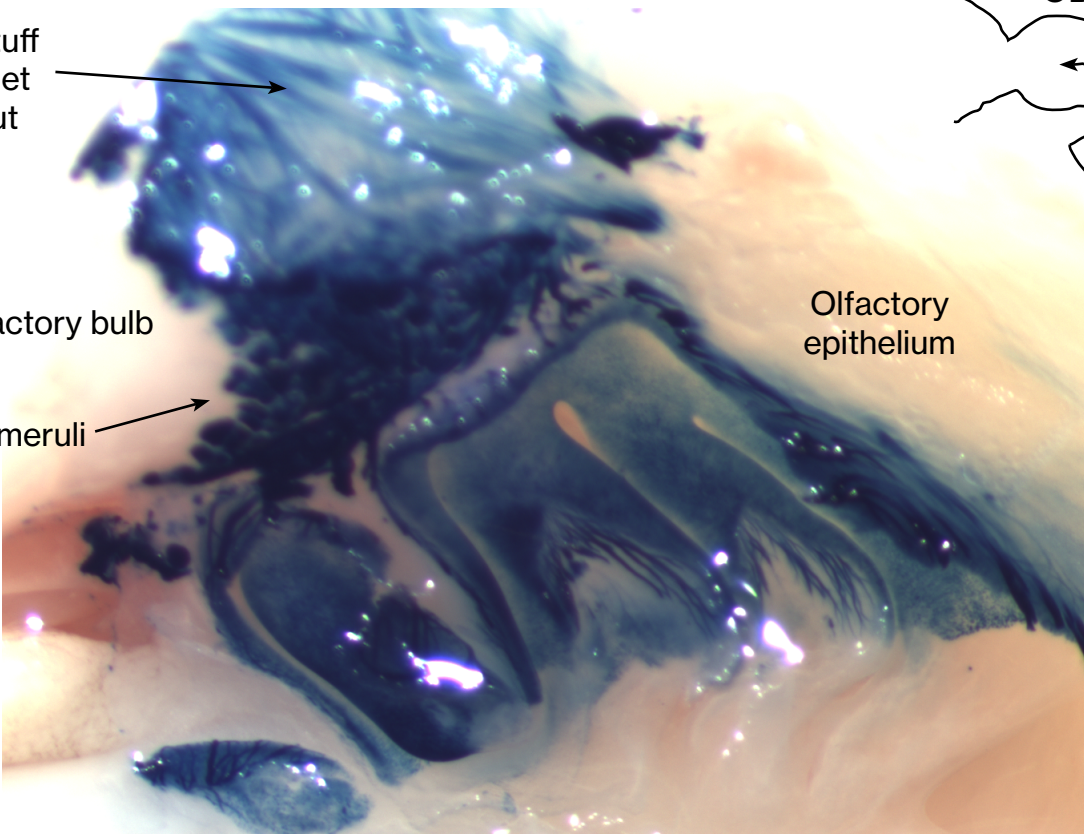
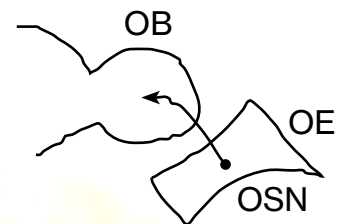
Omp^{cre/+}; Rosa26^{StLa/+} mouse

Some bone stuff
that did not get
dissected out

Olfactory bulb

Glomeruli

Olfactory
epithelium



Can see the X-gal+ glomeruli on the olfactory bulb below the bone