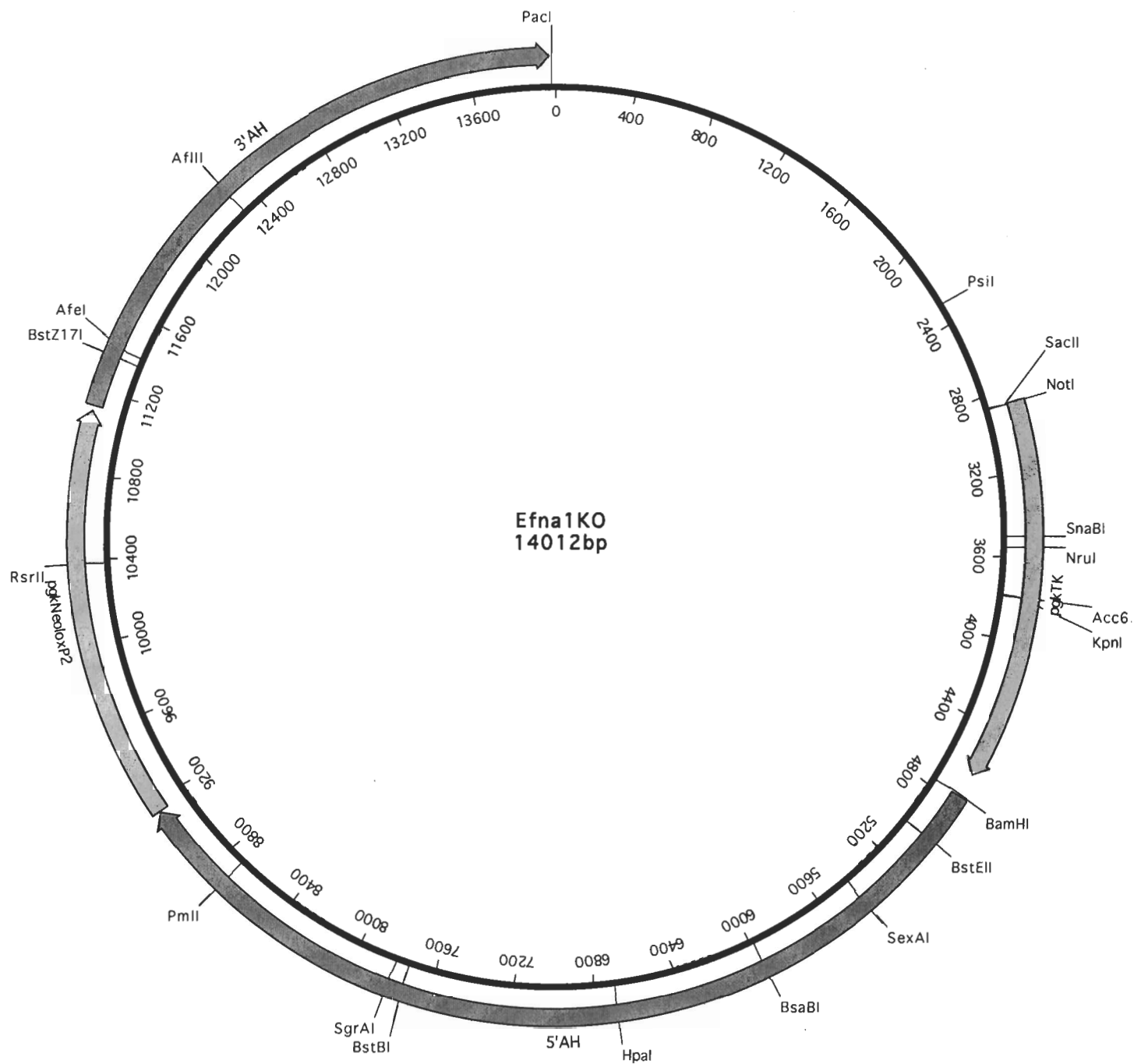
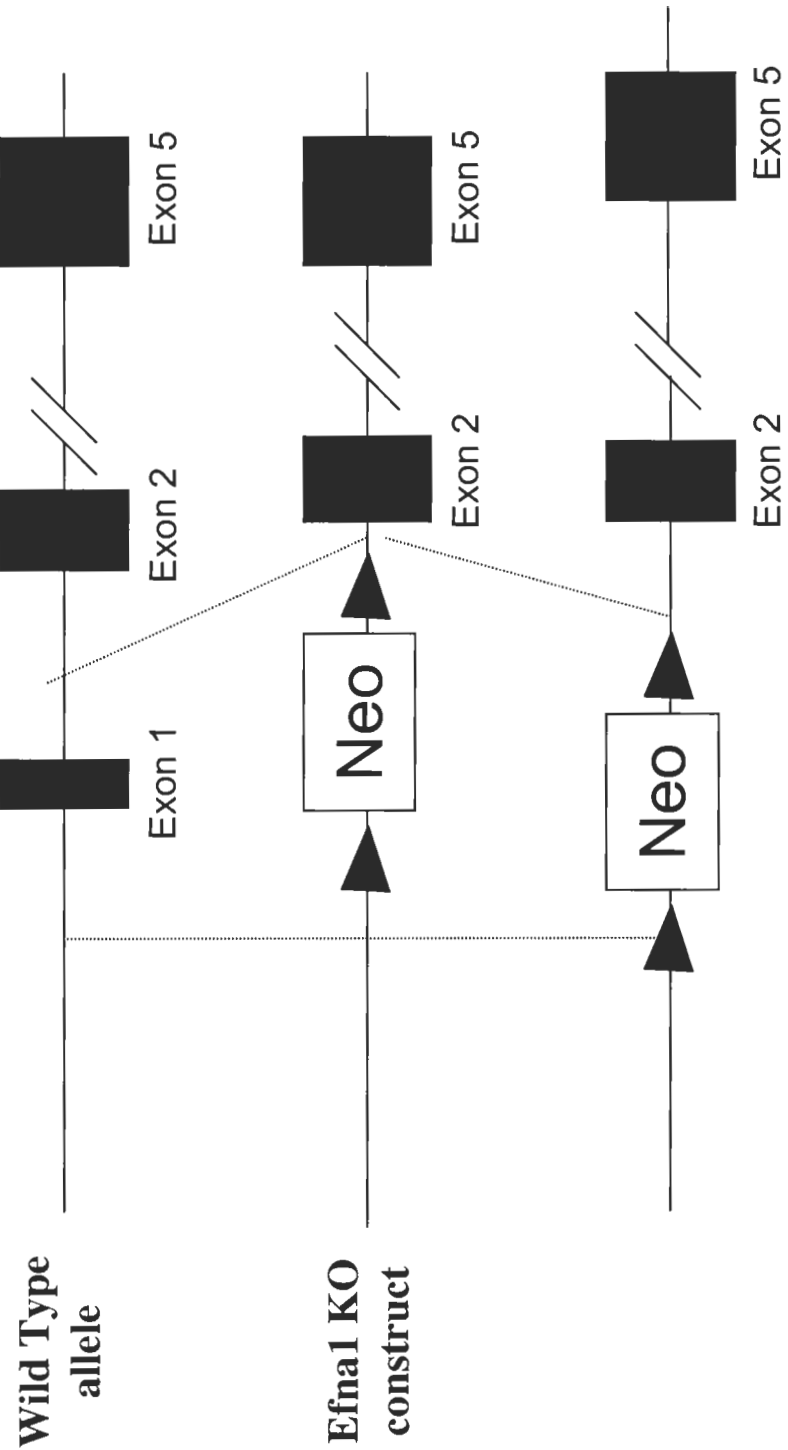


## Ephrin-A1 Knockout Experiment

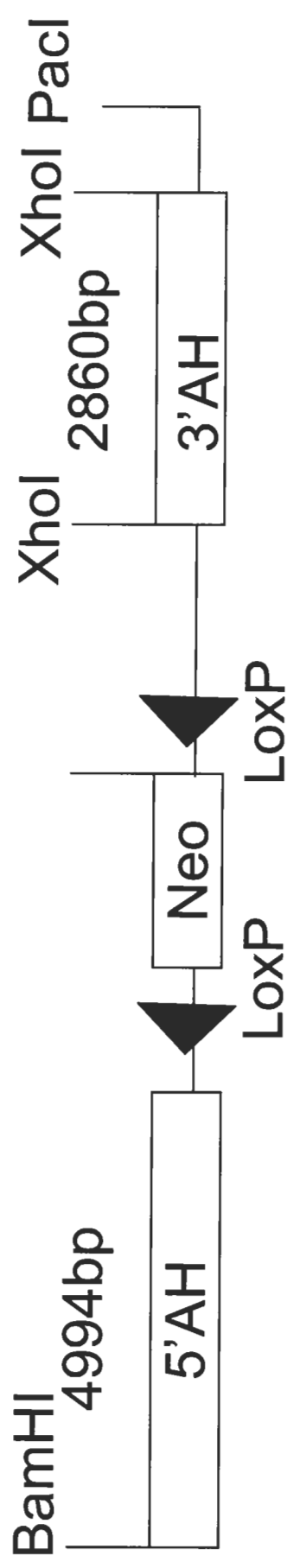
The purpose of this experiment is to constitutively delete expression of the gene encoding ephrin-A1 (*Efnal*) in the mouse model system. This will enable us to examine how ephrin-A1 regulates vascular development and angiogenesis. In order to do this, we have created a targeting construct designed to replace exon 1 of *Efnal* with a gene encoding neomycin resistance.



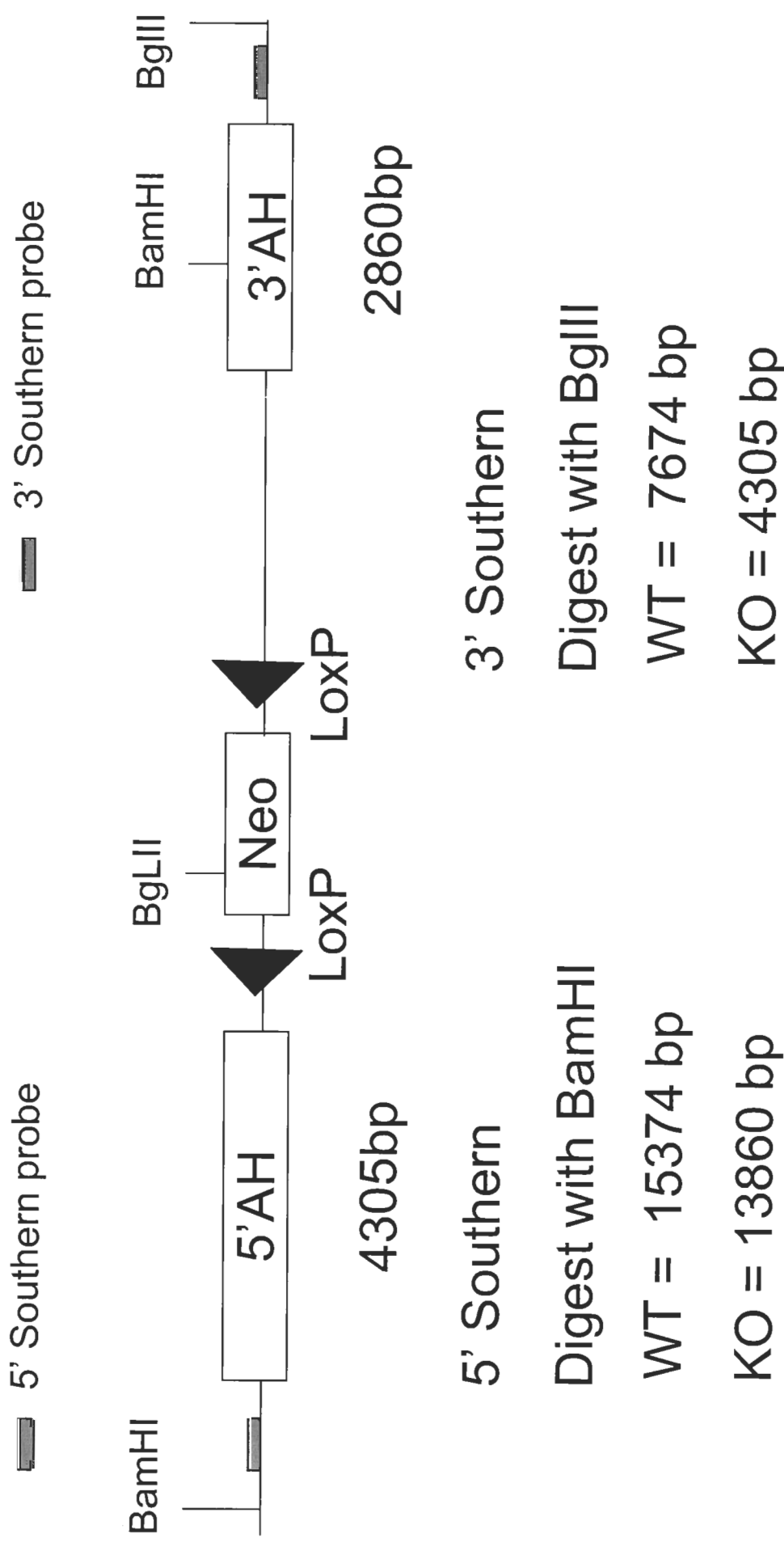


# Efna1 KO

in pMTK-LP2 vector



## Southern screening strategy



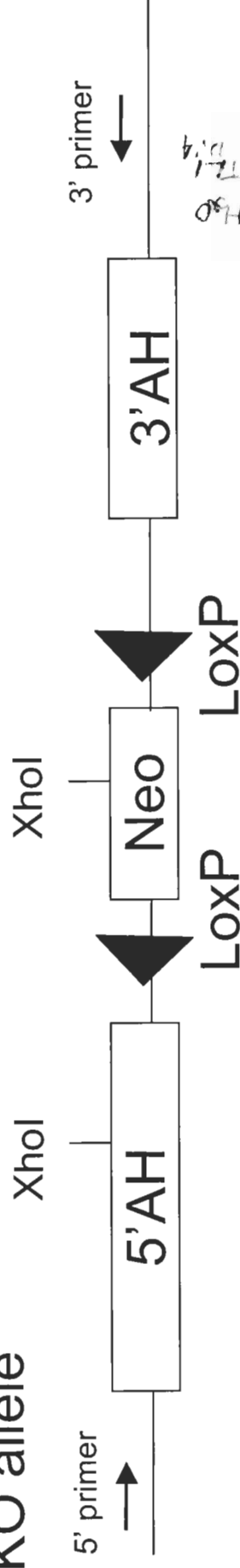
Internal probe to neo will also be used to screen for multiple Insertions, once positive ES cell colonies are identified

# Long Range PCR screening strategy

WT allele



KO allele



WT PCR=9281 bp

Xho I digest

4428bp

4853bp

KO PCR=10814bp

Xho I digest

4428bp

3411bp

2975bp

