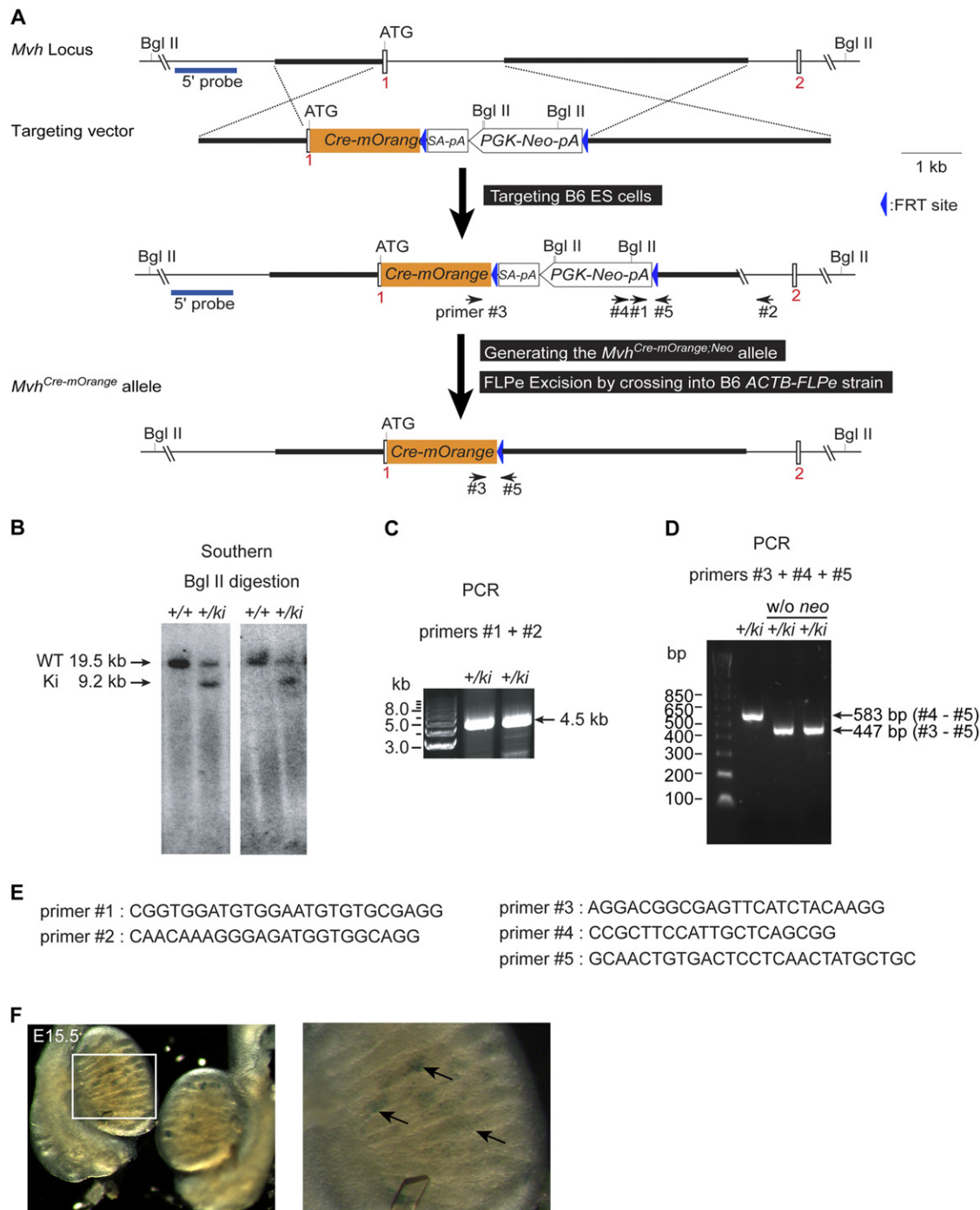


# Supporting Information

Hu et al. 10.1073/pnas.1311548110



**Fig. S1.** Generation of mouse *vasa homolog* ( $Mvh^{Cre-mOrange/+}$ ) mice. (A) Schematic representation of knock-in of *Cre-mOrange* gene into the *Mvh* locus. The targeted knock-in allele was generated by homologous recombination of the targeting vector. The FLPe recombinase recognition target (FRT)-flanked *Neo* cassette was excised by further mating to *ACTB-FLPe* mice (Jackson Laboratory, stock number 005703). *Neo*, neomycin gene; pA, polyadenylation signal; *PGK*, phosphoglycerate kinase promoter; SA, splicing acceptor. (B) Southern analysis of 5' junction of the knock-in (ki) allele. Genomic DNA from targeted ES cells was digested with *Bgl II* enzyme and hybridized with a  $P^{32}$ -labeled 5' probe external to the targeted area. (C) PCR analysis of 3' junction of the targeted allele in ES cells, using the primers as indicated. (D) Successful excision of the FRT-flanked *Neo* cassette in mice was confirmed by PCR analysis, using the primers as indicated. (E) Primer sequence information. (F) The Cre recombination activity became apparent in the gonads of embryonic day (E) 15.5 embryos that carried  $Mvh^{Cre-mOrange/+}$  and a *ROSA26-lacZ* reporter. The Cre activity was assessed by the presence of  $\beta$ -galactosidase expression using X-Gal staining (dark blue, arrows). (Right) Higher magnification of boxed area in left panel.