SUPPLEMENTAL MATERIAL

Supplemental Video Legends:

Video S1. Optical mapping of electrical conduction in wild type mice.

Video S2. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/\Delta e6B}$ mice with AV block and early afterdepolarizations.

Video S3. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/\Delta e6B}$ mice with early afterdepolarizations.

Video S4. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/\Delta e6B}$ mice with premature atrial complex.

Video S5. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/+}$ mice at baseline with prolonged action potential duration.

Video S6. Optical mapping of electrical conduction in WT mice with programmed electrical stimulation.

Video S7. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/\Delta e6B}$ mice with programmed electrical stimulation.

Video S8. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/\Delta e6B}$ mice with programmed electrical stimulation showing AV block and EADs.

Video S9. Optical mapping of electrical conduction in *Scn5a*$^{\Delta e6B/+}$ mice with programmed electrical stimulation showing AV block.