



Figure 1 supplement 1. Breeding strategy to generate mice that heterologously express the *Scn1a* A1783V pathological variant conditionally in inhibitory neurons (*Scn1a*^{ΔE26} mice). Homozygous Gt(ROSA)26Sor^{tm14(CAG-tdTomato)Hze/J} reporter mice (Ai14; JAX no. 007914) on a 100% C57BL/6J background are bred with mice that express Cre recombinase targeted to *Slc32a1*, the gene encoding Vgat (*Slc32a1*^{Cre} mice, JAX no. 016962), on a mixed background of 75%::25% C57BL/6J::129/SvJ to produce *Slc32a1*^{Cre}::*TdT* double-heterozygous mice with a 85% C57BL/6J :: 15% 129/SvJ background. These mice are then bred with *Scn1a*^{A1783Vfl/+} (JAX no. 026133) maintained on a 100% C57BL/6J background to produce experimental animals with a genotype of *Slc32a1*^{cre+/-::TdT+/-::Scn1a^{fl/+}} (*Scn1a*^{ΔE26}) and control animals of the following genotypes *Slc32a1*^{cre-/-::TdT+/-::Scn1a^{fl/+}} (*Scn1a*^{fl/+}) and *Slc32a1*^{cre+/-::TdT+/-::Scn1a^{+/+}} (*Slc32a1*^{cre/+}). Experimental and control mice had a common background of 90% C57BL/6J :: 10% 129/SvJ. The proportion of each background strain was determined by Genome scan analysis (JAX).