Supporting Information

Figure S1: Confirmation of c.451 C > T mutation in targeted ES clones

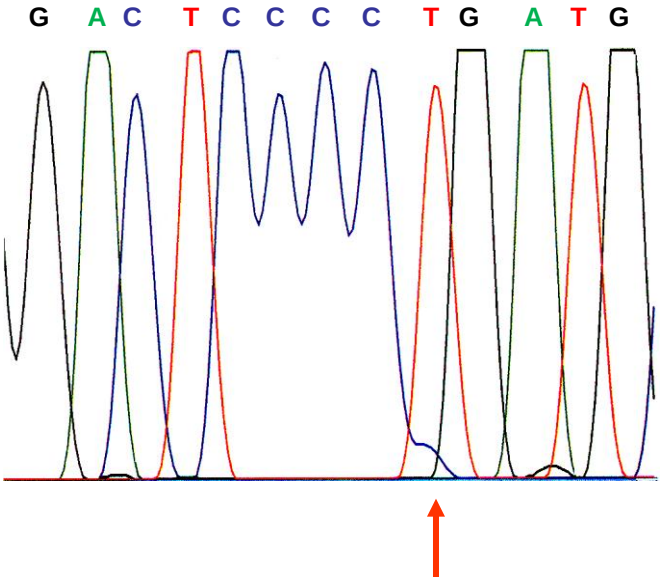
(**A**) The c.451 C > T (R151X) mutations in targeted ES clones were confirmed by direct DNA sequencing. The arrow shows the mutation site (C > T). (**B**) Schematic of the PCR-based genotype analysis. The sequences of primers were listed in the Materials and Methods.

Figure S2: Biochemical analysis of Catalase and NeuN levels

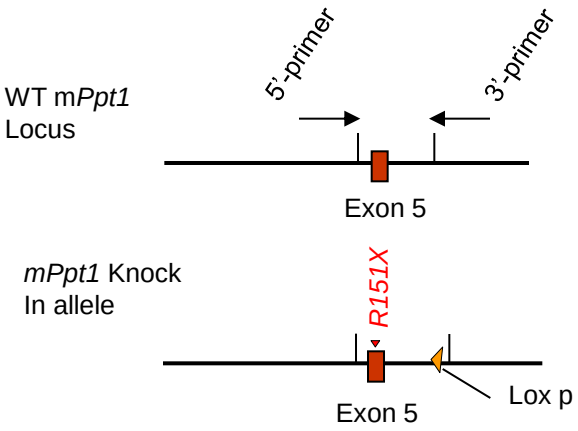
(**A**) The *Catalase*-mRNA levels in the brain tissues of *Ppt1*-KI as well as those of their WT littermates. The *Catalase*-mRNA levels in *Ppt1*$^{-/-}$ mice were used as a control. The results are presented as the mean (n=12) $\pm$ SD. (**B**) Western blot analysis of brain tissues from *Ppt1*-KI mice and those of their WT littermates. Brain tissues from *Ppt1*$^{-/-}$ mice were used for comparison. β-actin was used as a loading control. (**C**) The *NeuN*-mRNA levels in the brain tissues of *Ppt1*-KI as well as in those of their WT littermates. The *NeuN*-mRNA levels in *Ppt1*$^{-/-}$ mice were used as control. The results are presented as the mean (n=12) $\pm$ SD. (**D**) Western blot analysis of brain tissues from *Ppt1*-KI mice and those of their WT littermates. Brain tissues from *Ppt1*$^{-/-}$ mice were used as a control. β-actin was used as a loading control. *$p < 0.05$, **$p < 0.01$, ***$p < 0.001$.

Supplemental Figure S1

A



B



Supplementary Figure S2