Supplemental Figure 1
Supplemental Figure 2
Supplemental Figure 1: \textit{L253X/+} retinas display variable excess total \textit{Crx} mRNA. qRT-PCR assays were used to quantify total \textit{Crx} mRNA from mutant and \textit{WT} control retinas at the indicated ages. The results are presented as relative expression to \textit{WT}. (mean $\pm$ SEM, n=3, circles represent individual biological replicates; ** $p < .01$; 1-Way Anova with Tukey’s Multiple Comparisons Test).

Supplemental Figure 2: \textit{L253X/X} retinas display normal ONL genesis but photoreceptor layer-specific progressive thinning, while all \textit{L253X/+} retinal layers unaffected. H&E stained retinal sections from P7 \textit{WT} (A) and \textit{L253X/X} (B) mice were imaged at 40X magnification (scale bar 25um). Morphometry quantification of five retinal layers in \textit{L253X/X} and \textit{L253X/+} mutants along with \textit{WT} controls at 1 mo (C-G), 2 mo (H-L) and 3 mo (M-Q). These layers include ONL-outer nuclear layer, OPL-outer plexiform layer; INL-inner nuclear layer; IPL-inner plexiform layer; and GCL-ganglion cell layer. (mean $\pm$ SEM, n $\geq$ 3; * $p<0.05$, ** $p<0.01$, *** $p<0.001$, **** $p<0.0001$; 2-Way Anova with Tukey’s Multiple Comparisons Test). \textbf{(R)} Expression levels of 14 essential photoreceptor genes in P10 \textit{L253X/X} and \textit{Crx}-/- mutants and \textit{WT} controls were determined by qRT-PCR. The results are presented as expression changes relative to \textit{WT} in a log2 scale with 2-fold differences ($\pm$1) marked by grey dash lines (mean $\pm$ SEM, n $\geq$ 3; * $p<0.05$, ** $p<0.01$, **** $p<0.0001$; 1-Way Anova with Tukey’s Multiple Comparisons Test)

Supplemental Table 1: Primer sets for PCR and qRT-PCR.

Supplemental Table 2: Custom designed ddpCR assays.