

Supplement Figure 3. A) Representative agarose gel electrophoresis image used to assess mitochondrial DNA (mtDNA) oxidative damage. The upper panel shows long-range mtDNA PCR amplicons resolved on a 0.7% agarose gel. MW indicates the DNA molecular weight marker. DNA samples were treated with FPG glycosylase prior to amplification of the long mtDNA fragment. The lower panel shows the short PCR amplification products from WT and L22P cells resolved on a 2% agarose gel as a control. **B)** Slot blot analysis of mtDNA isolated from WT and L22P cells using an 8-oxoG antibody to detect oxidative DNA damage in untreated and H₂O₂-treated cells. Each sample was loaded in duplicate; therefore, the two lanes represent the same sample applied twice to the slot blot membrane.