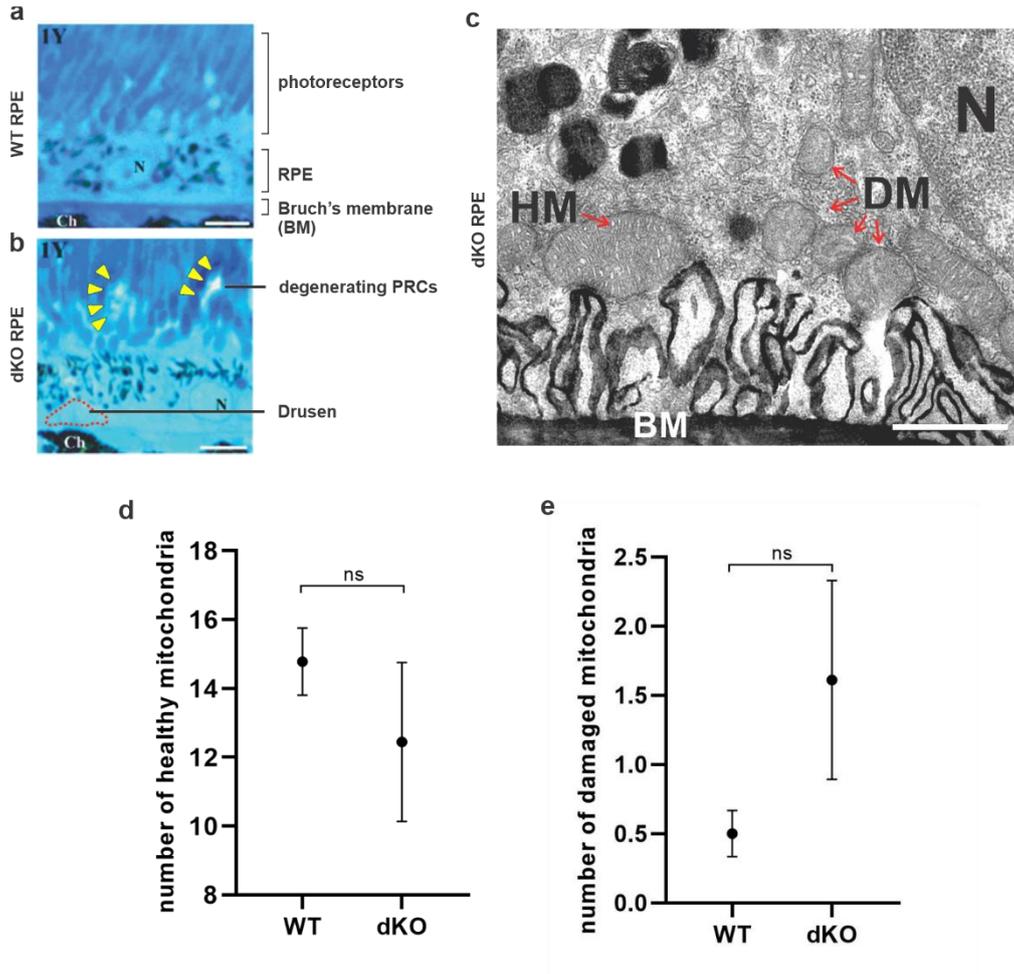
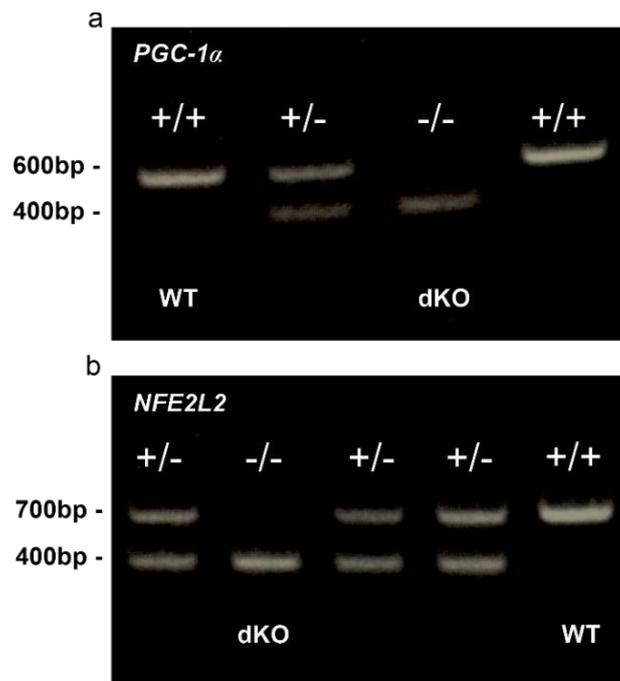


Supplementary data



Supplementary figure 1. The toluidine blue stained sections from the posterior part of the eye demonstrate the layers of the retina and the morphological relationship of photoreceptor/RPE/Bruch's membrane/ complex (a). The layers of sensory retina are clearly visible. *NFE2L2/PGC-1α* dKO shows positive signs of dry AMD including drusen-like deposits (red dotted lines) (b). The total numbers of healthy and damaged mitochondria were counted from 6 WT and 6 dKO using TEM imaging (c). The total numbers of healthy mitochondria (d) were reduced in dKO ($p = 0.70$); correspondingly, the numbers of damaged mitochondria (e) were increased in dKO ($p = 0.19$). Data are presented as mean \pm SEM, Scale = 5 μ m (a,b) and 1 μ m (c). Healthy mitochondria (HM), damaged mitochondria (DM), Nuclei (N) and Bruch's membrane (BM). ns- non significance.



Supplementary figure 2. Genotyping of *NFE2L2* and *PGC-1 α* double knockout mice (dKO) and wild type (WT).