

Figure S1. The TLR3 levels in INL ($p < 0.0001$), ONL ($p < 0.0001$) and RPE ($p = 0.04$) layers of dKO animals were significantly increased compared to WT animals (**a**, **b** and **c**). Similarly, the TLR9 levels were significantly increased in dKO animals INL ($p = 0.001$), ONL ($p = 0.03$) and RPE ($p < 0.0001$) layers (**d**, **e** and **f**). However, NLRP3 levels in remained unchanged in INL ($p = 0.95$), followed by non-significant decrease by ~15% in ONL ($p = 0.19$) and non-significant increase by ~8% in RPE ($p = 0.35$) (**g**, **h** and **i**). INL (inner nuclear layer); ONL (outer nuclear layer); RPE (retinal epithelial layer).

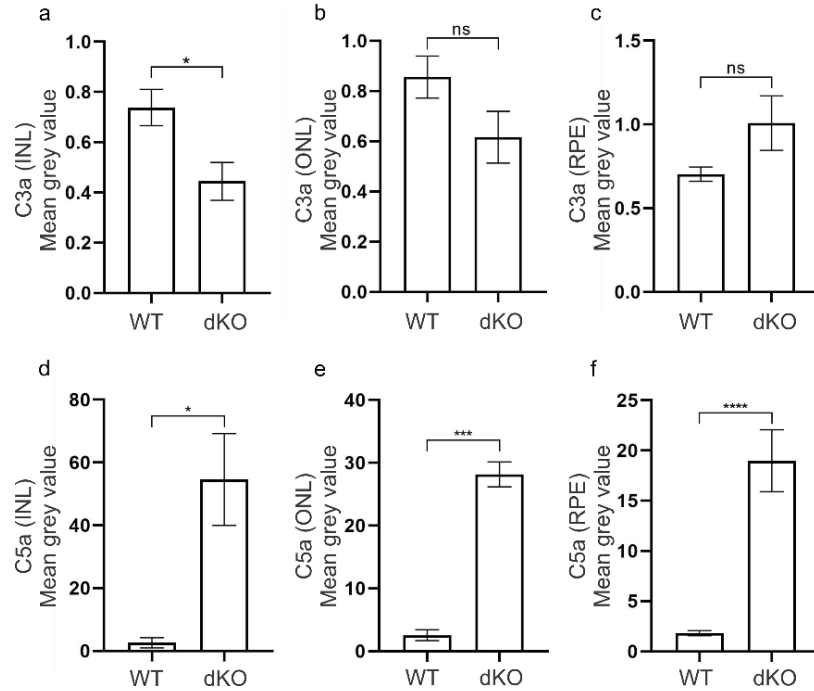


Figure S2. The C3a levels in INL significantly decreased by ~40% ($p = 0.01$), followed by non-significant decrease by ~28% in ONL ($p = 0.05$) and non-significant ~61% increase in RPE ($p = 0.49$) layers of dKO animals compared to WT animals (a, b and c). The C5a levels were significantly increased in dKO animals INL ($p = 0.02$), ONL ($p < 0.001$) and RPE ($p < 0.0001$) layers (d, e and f). INL (inner nuclear layer); ONL (outer nuclear layer); RPE (retinal epithelial layer).

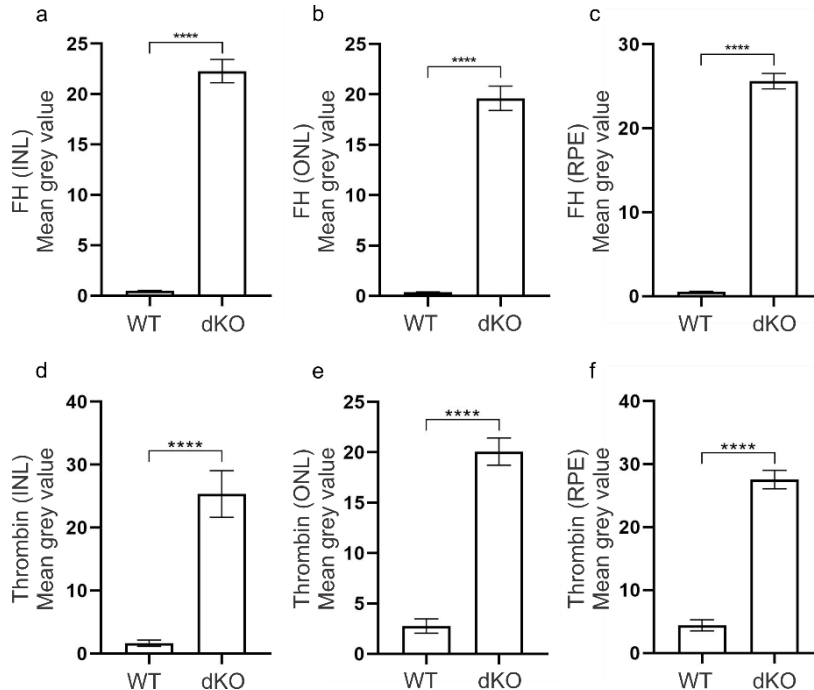


Figure S3. The FH levels in INL ($p < 0.0001$), ONL ($p < 0.0001$) and RPE ($p < 0.0001$) layers of dKO animals were significantly increased compared to WT animals (a, b and c). Similarly, the thrombin levels were significantly increased in dKO animals INL ($p = 0.0001$), ONL ($p = 0.0001$) and RPE ($p < 0.0001$) layers (d, e and f). INL (inner nuclear layer); ONL (outer nuclear layer); RPE (retinal epithelial layer).

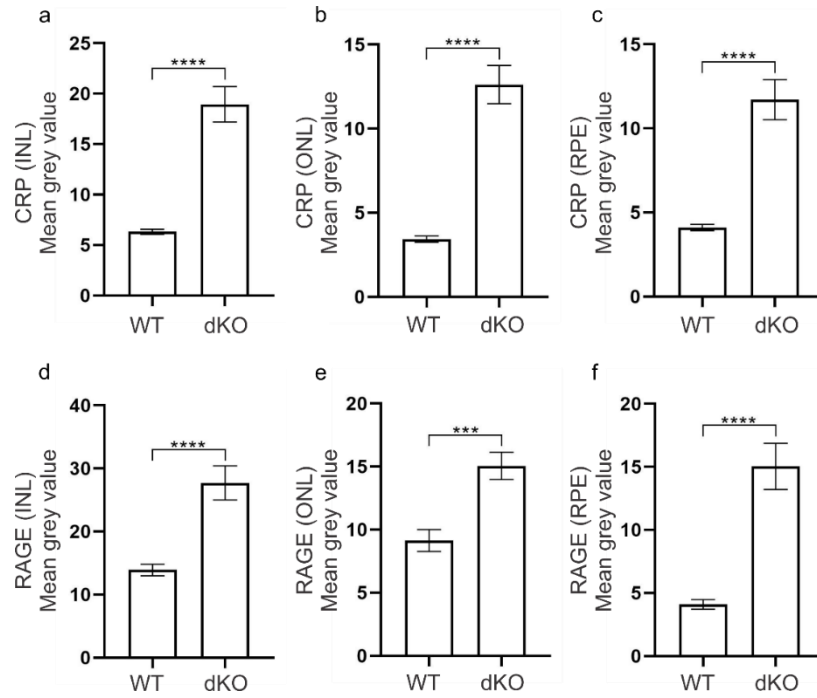


Figure S4. The CRP levels were significantly increased in dKO animals INL, ONL and RPE ($p = 0.0001$; $p = 0.0001$; $p = 0.0001$), respectively compared to WT animals (a, b and c). The RAGE levels in INL ($p < 0.0001$), ONL ($p < 0.0001$) and RPE ($p < 0.0001$) layers of dKO animals were significantly increased compared to WT animals (d, e and f). INL (inner nuclear layer); ONL (outer nuclear layer); RPE (retinal epithelial layer).