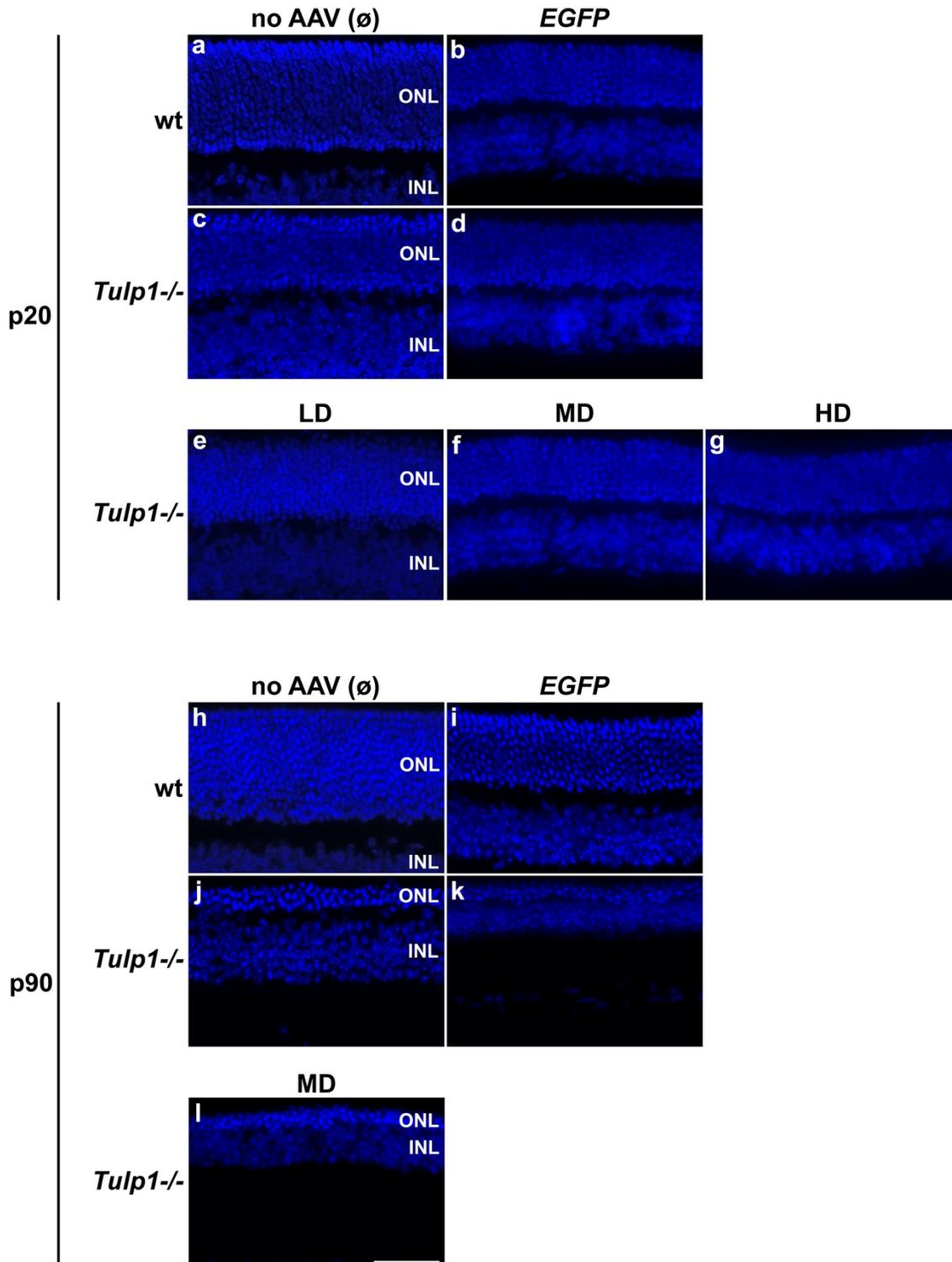


Supplementary Material

Suppl. Figure 1.

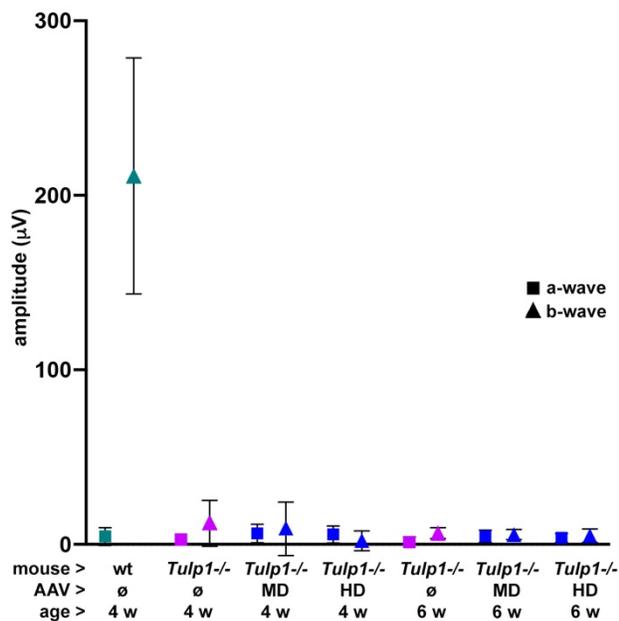


Suppl. Figure 1. Histological evaluation of *Tulp1* supplementation in *Tulp1*^{-/-} retinas

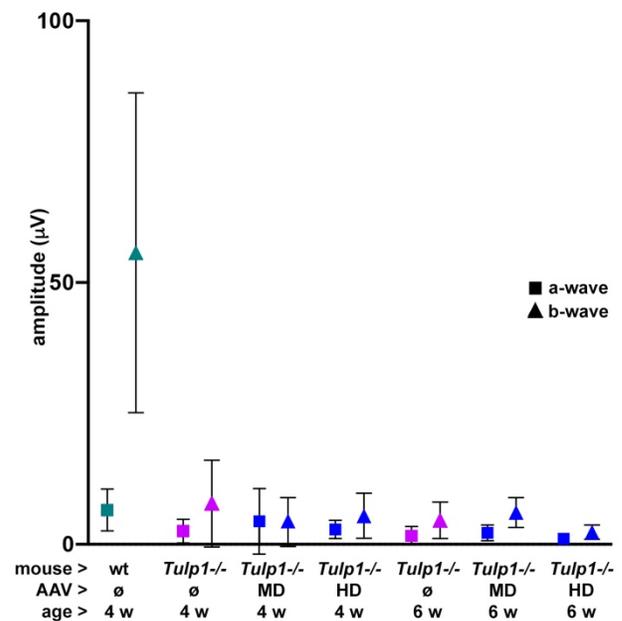
Tulp1^{-/-} pups were injected subretinally with LD, MD and HD doses of AAV-*GRK1P-Tulp1* + AAV-*RhoP-EGFP* as a marker (LD, MD, HD) or AAV-*RhoP-EGFP* (*EGFP*) as injection controls and their retinas analysed at p20 and p90 (n=4-6). Age-matched, uninjected (\emptyset) wt and *Tulp1*^{-/-} retinas were used as uninjected controls. Eyes were cryosectioned and nuclei counterstained with DAPI (blue). **a-b**: wt retinas analysed at p20, **c-g**: *Tulp1*^{-/-} retinas analysed at p20, **h-i**: wt retinas analysed at p90, **j-l**: *Tulp1*^{-/-} retinas analysed at p90. Scale bar (l): 40 μ m. ONL: outer nuclear layer, INL: inner nuclear layer.

Suppl. Figure 2.

a. Dark-adapted, rod-isolated ERG



b. Light-adapted, cone-isolated ERG

Suppl. Figure 2. Analysis of dark-adapted, rod-isolated and light adapted cone-isolated ERGs of *Tulp1* supplementation in *Tulp1*^{-/-} retinas

Tulp1^{-/-} mice were subretinally injected with MD or HD of AAV-*GRK1P-Tulp1* at p2-3; uninjected (\emptyset) wt and *Tulp1*^{-/-} retinas were used as controls (n=4-16); ERG analysis was performed at 4 and 6 weeks of age. **a**: Amplitudes of dark-adapted, rod-isolated (-25 dB) and **b**: light-adapted cone-isolated (0 dB) ERG responses are presented. a- (■) and b- (▲) waves are given for wt (green), untreated (magenta) and treated (blue) *Tulp1*^{-/-} mice in dot plots; symbols represent mean \pm SD.