Figure S3: Marker expression of rhoEGFP cells in vitro. To test the specificity of the GFP signal in rhoEGFP transgenic mice, PN2 retinas were dissociated and cultured for seven days on cover slips. Immunocytochemistry of dissociated rhoEGFP retinas (A) with antibodies against rhodopsin (B) revealed that all GFP-positive cells were stained (C; merged image of A and B with DAPI staining; some double-positive cells are marked with arrows). Another marker that is strongly expressed in photoreceptors is recoverin. All GFP-positive cells (D) were also positive for recoverin staining (E; F is the merged image of D and E with dapi staining and DIC; some double-positive cells are marked with arrows). Few recoverin-positive cells (E) were GFP-negative (D, F). These might represent cones, cone bipolar cells, or young rods that have not become rhodopsin-positive yet as recoverin expression precedes rhodopsin expression during photoreceptor maturation. Scale bars in C (for A – C) and F (for D – F): 20μm.