Supplementary Figure 1. Schematic representation of step-wise retinal differentiation.

**Differentiation medium (DM)** consists of DMEM/F12, 4% KOSR, 0.1 mM NEAA, 2 mM Glutamax, 50 U/mL Penicillin and 50 µg/mL Streptomycin. **Neural induction medium (NIM)** consists of DM supplemented with 1% N2 supplement and 100 ng/mL Noggin. **Retinal differentiation medium (RDM)** consists of DM supplemented with 2% B27 supplement. **Neuro-retinal medium (NRM)** consists of DM supplemented with 1% N2, 5 ng/mL bFGF and 10 ng/mL DKK1. **Retinal pigmented epithelial medium (RPEM)** consists of DM supplemented with 2% B27, 10 ng/mL ActivinA and 10 µM Y-27632.