



**Figure S4.** Quantification image of available CiPCs after differentiation and sorting. hiPSCs without any treatment served as the negative control without positive expression of Recoverin, Rhodopsin, and Cone-Arrestin (upper panel). The FLCs determining (mid panel) and CiPCs determining (bottom panel) with the three bio-markers were following the Gating strategy of that used to the negative control.