



**S1 Fig. Fluorescent images and kymographs of co-culture differentiation of CellTracker™-labeled iPS cells via pre-culture method.**

(A) DIC image of pre-culture on day 8 (scale bar: 500µm), red box shows magnified overlay of DIC and TRITC images (scale bar: 100µm). Kymograph of contracting cluster indicated by red arrow line scan (scale bar: 50µm). (B,C) Overlay image of pre-culture at low density and kymographs showing fluorescently labeled cell exhibiting spontaneous self contraction (1) and non-contraction (2). Non-labeled cells can also be observed to exhibit spontaneous self contraction (3) and non-contraction (4). Scale bars: 50µm in overlay, 5µm in kymographs.