







**Supplementary Figure 1.** Generation of dorsal forebrain organoids from human embryonic stem cells (**A**) Phase contrast images of dorsal forebrain organoids after 1, 2, 3, and 4 weeks of differentiation from H7 cells. Scale bar: 1 mm. (**B**) Immunohistochemistry images of dorsal forebrain organoids after 5, 7, and 10 weeks of differentiation from H7 cells. Scale bar: 100  $\mu$ m.