**Description of Additional Supplementary Files**

**File Name**: Supplementary Movie 1

**Description**: Time lapse movie of 4-OHT-treated organoids from small intestine of *Spint2*LoxP/LoxP/CreERT2 mouse.

**File Name**: Supplementary Movie 2

**Description**: Time lapse movie of 4-OHT-treated organoids from small intestine of *Spint2*LoxP/LoxPCreERT2 mouse different from that of Supplementary Movie 1.

**File Name**: Supplementary Movie 3

**Description**: Time lapse movie of vehicle-treated control organoids from small intestine of *Spint2*LoxP/LoxPCreERT2 mouse.