

### **Description of Additional supplementary files**

**Supplementary Movie 1:** Live-cell imaging of progenitor cells and differentiated colonocytes with or without IFN- $\gamma$  treatment for 23 h, related to Figure 1. Scale bar: 100  $\mu\text{m}$ .

**Supplementary Movie 2:** Live imaging of progenitor cells in untreated, IFN- $\gamma$  treated, and IFN- $\gamma$  + HGF treated conditions for 24 h, related to Figure 6. Scale bar: 30  $\mu\text{m}$ .

**Supplementary Movie 3:** Live imaging of progenitor cells in untreated and IFN- $\gamma$  treated conditions for 13 h with apoptotic cell staining. Scale bar: 50  $\mu\text{m}$ . Quantification see Extended Data Fig. 4b

**Supplementary Data1:** Regulated genes in Krt20+ colonocytes treated with IFN- $\gamma$  compared to untreated control using sc-RNAseq