

Supplementary Figure 1. Restoration of miR-200c results in decreased proliferation and decreased ZEB expression **A)** RNA was extracted from tumors of untreated (-Dox) or treated (+Dox) mice and miR-200c levels measured by qRT-PCR. Data represents miR-200c levels normalized to RNU6. **B)** Tumors expressing miR-200c (+Dox) or not (-Dox) were stained for ZEB1 by immunohistochemistry. Figure shows tumors from 3 different individuals per group at 20X magnification

Supplementary Figure 2. Restoration of miR-200c to ovarian cancer cells reduces β III-tubulin expression. Ovarian cancer SKOV3, OV1847 and Hey cells were plated in triplicate and transfected with transfection agent alone (mock), 50nM negative control (neg) or 50nM miR-200c mimic and β III-Tubulin and ZEB1 expression were measured by western blot after 72h (left). β III-tubulin expression was quantified and normalized to loading control (Tubulin) intensity using LiCor infrared imaging software (right). Graph shows average expression relative to Mock-treated cells +/- SD. * P<0.05 compared to Negative-control treated cells.

Supplementary Figure 3. A) Scatter plot shows combined total-flux at the supine and prone positions at Day 6, and distribution of tumor burden at the time of matching, prior to administration of doxycycline and taxol. Values at this time point were used to calculate fold changes in tumor growth over time. **B)** miR-200c expression in tumors from paclitaxel-treated mice at the time of euthanasia, as measured by qRT-PCR. Data represents miR-200c levels relative to RNU6B. **C).** Immunostaining shows ZEB

expression for 3 mice representative of each group at the end of the study. 20x magnification.