

Supplemental figure S1. Comparison of cell viability between control and EV cells using MCF-10A and MDA-MB-361 cell lines. Viability of MCF-10A **(a)** and MDA-MB-361 cells **(b)** was determined 24 and 48 hours after irradiation and their values are presented in relative luminescent units (RLU) corrected with corresponding blank medium controls. Data represent means \pm SEM (n=3).

Supplemental figure S2. No significant differences in subG1 fraction and G2 phase were detected between control (no lentiviral transduction) and EV (empty virus) transduced MCF-10A or MDA-MB-361 cells. Representative FACS analysis of sham irradiated and cells exposed to 2.5 Gy irradiation of MCF-10A **(a)** and MDA-MB-361 **(b)**. Relative number of cells in subG1 **(c,d)** and G2 **(e,f)** phases of cell cycle 24 hours after 0.25 Gy and 2.5 Gy irradiation are presented as fold change after normalization to sham irradiated EV cells. Data represent means \pm SEM (n=3).