

**Figure S1.** Transient silencing of ER $\alpha$  did not show significant change in ovarian cancer cell migration and invasion. (A) Transient knockdown of ER $\alpha$  (siER $\alpha$ ) mRNA expression in SKOV-3 cells by qPCR. (B) *In vitro* migration and invasion assays in SKOV-3 cells transiently transfected with siRNA specifically targeting ER $\alpha$  and control siRNA. Upper panel: representative images of migrating or invading cells. Lower panel: cell migration or invasion presented as percentage of control; n=3; \*\*, p<0.005.

