SUPPLEMENTAL FIGURE LEGENDS

Supplemental Figure 1: Relationship between Cdc7 expression and clinico-pathological parameters. Box-Whisker plots showing Cdc7 labeling indices (LI) in relation to (**A**) tumor grade (grade 1, n=21; grade 2, n=75; grade 3, n=75), (**B**) tumor DNA ploidy status (aneuploid, n=85; diploid, n=81), (**C**) lymph node status (positive, n=68; negative, n=91) and (**D**) breast cancer subtype (luminal, n=135; Her2, n=8; triple-receptor negative, n=28). The median (solid black line), interquartile range (boxed) and range (enclosed by lines) of Cdc7 expression are shown (outliers are depicted by isolated points).

Supplemental Figure 2: Relationship between Cdc7 expression and NPI score. Box-Whisker plots showing Cdc7 labeling indices in relation to low (<3.4), medium (3.4-5.4) and high (>5.4) NPI scores. The median (solid black line), interquartile range (boxed) and range (enclosed by lines) of Cdc7 expression are shown (outliers are depicted by isolated points).

Supplemental Figure 3: Cdc7 depletion causes apoptosis in MDAMB157 (triple-receptor negative) breast cancer cells. (**A**) At the indicated time points, cell number was measured in UT, CO and Cdc7-depleted ($Cdc7^{KD}$) MDAMB157 cell populations. The graph shows fold-increase in cell numbers calculated for each time point relative to the number of cells seeded. (**B**) DNA content of $Cdc7^{KD}$ MDAMB157 cells at the indicated time points. (**C**) Cell death and fragmented apoptotic nuclei (inset) were detected by phase contrast microscopy in $Cdc7^{KD}$ but not in CO MDAMB157 cells. (**D**) Apoptotic cell death was confirmed in $Cdc7^{KD}$ cells but not in UT and CO cells by immunoblot analysis of WCE prepared 72 hours post-transfection with the indicated antibodies (Actin – loading control).

Supplemental Figure 4: Cdc7 depletion causes apoptosis in MDAMB453 (Her2-amplified) breast cancer cells. (**A**) At the indicated time points, cell number was measured in UT, CO and Cdc7-depleted ($Cdc7^{KD}$) MDAMB453 cell populations. The graph shows fold-increase in cell numbers calculated for each time point relative to the number of cells seeded. (**B**) DNA content of $Cdc7^{KD}$ MDAMB453 cells at the indicated time points. (**C**) Cell death and fragmented apoptotic nuclei (inset) were detected by phase contrast microscopy in $Cdc7^{KD}$ but not in CO MDAMB453 cells. (**D**) Apoptotic cell death was confirmed in $Cdc7^{KD}$ cells but not in UT and CO cells by immunoblot analysis of WCE prepared 72 hours post-transfection with the indicated antibodies (Actin – loading control).

Supplemental Figure 5: Cdc7 depletion causes cell cycle arrest in immortalized untransformed MCF10A cells. (**A**) Immunoblot analysis of WCE prepared from untreated (UT), control-siRNA (CO), and CDC7-siRNA ($Cdc7^{KD}$) transfected MCF10A cells probed with antibodies against Cdc7 and Actin (loading control). (**B**) At the indicated time points, cell number was measured in UT, CO and $Cdc7^{KD}$ MCF10A cell populations. (**C**) DNA content of CO and $Cdc7^{KD}$ MCF10A cells at the indicated time points. (**D**) Percentage of CO and $Cdc7^{KD}$ MCF10A cells incorporating BrdU at the indicated time points. (**E**) WCE prepared from untreated, CO, and $Cdc7^{KD}$ MCF10A cells 72 hours post-transfection were analysed by immunoblotting with the indicated antibodies (Actin – loading control). (**F**) Cell death and fragmented apoptotic nuclei (inset) were detected by phase contrast microscopy in $Cdc7^{KD}$ but not in CO MCF10A cells.