Supplemental Figure 1. Recruitment of ERα to the cyclin D1 and progesterone receptor genes. Schematic diagrams of the cyclin D1 (A) and PR (B) genes. The locations of ERα binding sites in the vicinity of cyclin D1 and PR genes determined by prior genome-wide ERα ChIP-chip experiments (1) or ERα ChIA-PET (2) studies are shown, as are the sites of ERα-bound chromatin interaction sites determined by paired-end tag (PET) sequencing [adapted from ref. (2)]. (C & D) MCF-7 cells were treated with vehicle, 10 nM E2 or 100 nM 4HT for 45 min and then subjected to ChIP assay using antibodies for ERα. Immunoprecipitated chromatin was quantitated by qPCR using primers to amplify the previously defined enhancers 1 and 2 of the cyclin D1 gene (panel C) or the ER_7204, ER_7205 and ER_7206 regions associated with the PR gene (panel D). Primer sequences and location of the amplicons are listed in Supplemental Table 1. Data represent an average ± SEM of 2-3 independent experiments.

Supplemental Figure 2. GST proteins used in GST pull-down assays. Proteins purified on glutathione beads were eluted and quantitated, and evaluated by Commassie stained SDS-PAGE gels to demonstrate that equivalent level of proteins were used in the GST pull-down assays reported in Fig. 6. Suppl Figs. 2A, B and C represent the controls for experiments shown in Figs. 6A, 6B and 6C, respectively.

Supplemental Figure 3. A representative Western blot showing expression of SMRT and SRC-3 in tumor lysates. Approximately 35 µg of total protein from three tumor lysates and 15 µg of MCF-7 cell extract (used as a positive control) were resolved by SDS-PAGE and Western blotted for SMRT, SRC-3 and actin.
Supplemental Figure 1

A. Cyclin D1

-2000 Enhancer-1
+500 Enhancer-2

B. PR

-50,000
+4,000

ERα ChIP-chip

ER_7070
ER_7072

ERα ChIA-PET

ER_hg18_8664
ER_hg18_8665

IHM001F Intra-Chromosome Interaction PETs

C. ERα ChIP

% INPUT

0.0 0.2 0.4 0.6 0.8

Enhancer-1 Enhancer-2

D. 

% INPUT

0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0

ER_7206 ER_7205 ER_7204

Veh E2 4HT

Supplemental Figure 1
Supplemental figure 2
Supplemental figure 3
**Supplemental Table 1. Primers used for qPCR analysis of ChIP assays.**

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<th>Amplicon</th>
<th>Forward</th>
<th>Reverse</th>
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**Supplemental References**


