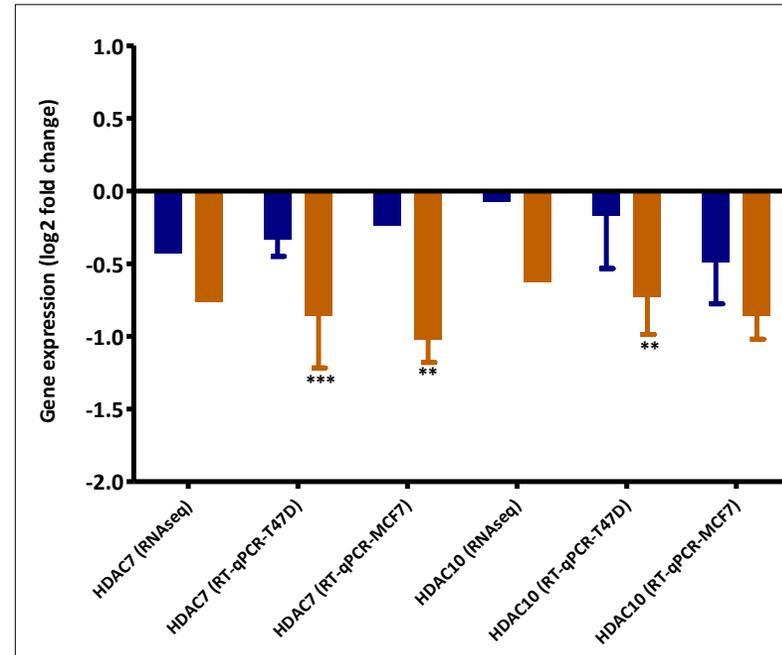


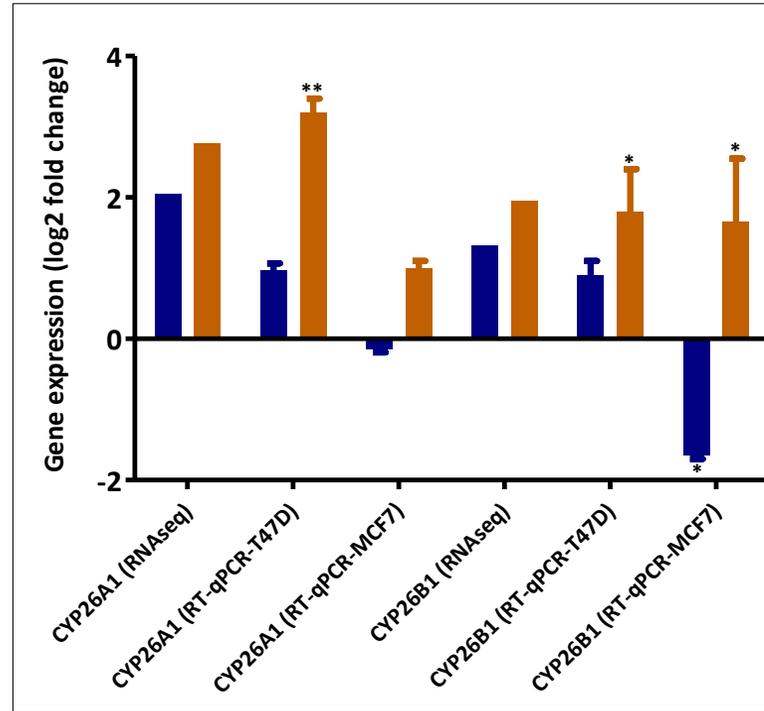
The genes that are validated in MCF-7 cells

Histone modification- related genes



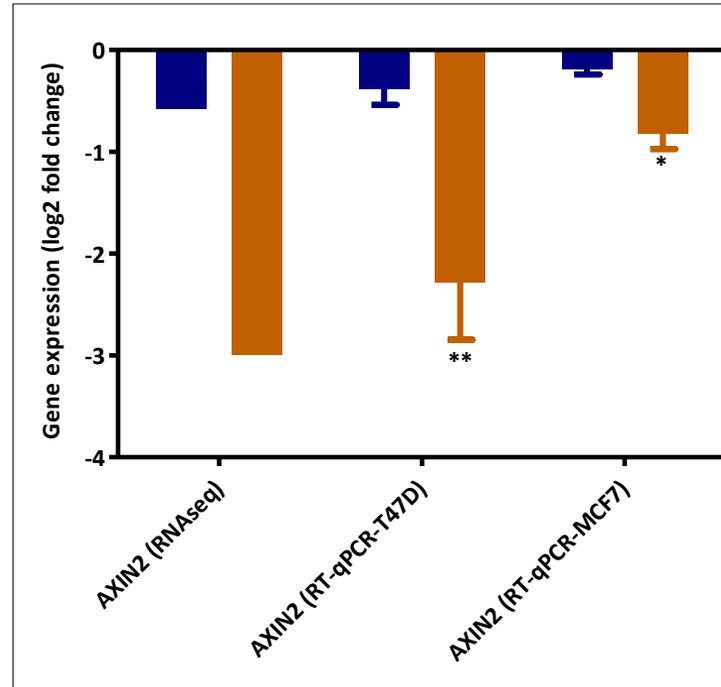
RNA-seq and RT-qPCR characterization of the effects of DES (orange) and E2 (blue) on gene expression associated with RAR pathways. For RT-qPCR results are expressed as log2 fold changes in relation to the solvent control, bars represent average \pm SEM from at least three independent experiments. For statistical analysis of the RT-qPCR data multiple paired t-tests were performed and differences were considered significant if p-value <0.05

RAR-related genes



RNA-seq and RT-qPCR characterization of the effects of DES (orange) and E2 (blue) on gene expression associated with RAR pathways. For RT-qPCR results are expressed as log2 fold changes in relation to the solvent control, bars represent average \pm SEM from at least three independent experiments. For statistical analysis of the RT-qPCR data multiple paired t-tests were performed and differences were considered significant if p-value < 0.05

ER-related genes



RNA-seq and RT-qPCR characterization of the effects of DES (orange) and E2 (blue) on gene expression associated with RAR pathways. For RT-qPCR results are expressed as log2 fold changes in relation to the solvent control, bars represent average \pm SEM from at least three independent experiments. For statistical analysis of the RT-qPCR data multiple paired t-tests were performed and differences were considered significant if p-value < 0.05