

**Supplementary Figure S3. CYP27A1 overexpression does not lead to 1,25-dihydroxyvitamin D3 production in prostate cancer cells**

LNCaP and 22Rv1 cells stably expressing Gal4 (Control) and CYP27A1 were plated in 12-well plates overnight. Expression of Gal4 and CYP27A1 was induced by treatment with increasing concentrations of doxycycline (0, 0.025, 0.1, 0.5, 1, and 2 ug/ml) for 3 days. A separate set of cells were treated with increasing concentrations of 1, 25-dihydroxyvitamin D3 (1, 25 VitD3) as positive controls. Expression of CYP27A1 and VDR target genes (TMPRSS2 and CYP24A1) was analyzed by qPCR.