Figure S2, related to Figure 1. Overexpression of Hes6 induces bicalutamide resistance.

(A) Endogenous Hes6 levels are relatively increased in castration resistant derivatives of LNCaP cells. Shown by q-PCR.

LNCaP-Bic = LNCaP cells with acquired bicalutamide resistance; C4-2 = xenografted LNCaP cells with acquired castration-resistance; C4-2b = osseous metastatic C4-2; n = 3, error bars represent mean ± SE; *p = 0.006, #p = 0.0003 compared to LNCaP by t-test.

(B) LNCaP and DUCaP cells were transduced with a pBabe retrovirus for stable overexpression of HA-tagged Hes6. Hes6 mRNA levels measured by q-PCR are shown; n = 3, error bars represent mean ± SE; *p = 2.9E-5, #p = 0.02 compared to EV by t-test.

(C&D) LNCaP and DUCaP cells with stable overexpression of Hes6 were grown in the presence bicalutamide. Vehicle (Veh) is ETOH and bicalutamide (Bic) 1 μM (LNCaP) or 50 μM (DUCaP). Proliferation rate was assessed at the mid-point of the growth curves by calculating the rate of change in confluence; n = 4; error bars represent mean ± SE. *p = 0.017, #p = 0.001 for comparison of EV Bic to Hes6 Bic by t-test.

(F) Androgen insensitive C4-2b-LM xenografts showed growth attenuation in castration with constitutive lentiviral knockdown of Hes6 (shHes6) compared to Non-Targeting controls (shNT). n = 5; error bars represent mean ± SE; *p = 0.03 by t-test.