Supplementary Figure S1: USP22 Specifically Promotes AR Recruitment to Target Loci. (A) RNA was extracted for qRT-PCR analysis of mRNA levels of Myc-target genes *MTA1* and *BAG1*. (B) LN-USP22 and control cells were androgen deprived and stimulated with DHT or vehicle and cell lysates were immunoblotted with Myc and GAPDH antibodies. (C) LN-USP22 and control cells were cultured in androgen-deprived media for 72 hours. Cross-linked chromatin derived from cells was immunoprecipitated with AR-N20 antibody and analyzed using primers targeting PSA ‘EF’ Region, which represents a region of the PSA gene that does not contain AR-binding sequences.
**Supplementary Figure 2:** Depletion of USP22 can be mediated by multiple sequences. LNCaP cells were plated in 6 well plates and 24 hours later transfected with siControl, siATXN7L3 (control for another member of SAGA complex), or siUSP22 oligonucleotides using Dharmafect. After 72 hours, cells were lysed and resultant lysates were probed with antibodies detecting AR, USP22, ATXN7L3, or GAPDH.
Supplementary Figure S3: AR Ubiquitylation Levels are not Altered in Response to USP22 Depletion. LNCaP cells were infected with shUSP22-1 or control (shLuc)-encoding lentivirus for a total of 120 hours, including androgen deprivation during the final 72 hours, followed by 1nM DHT or vehicle stimulation for 16 hrs. Additionally, 24 hours after infections, cells were transfected with plasmid encoding HA-Ubiquitin using Lipofectin. At the completion of the schedule, total cell lysates and HA (Ub) immune complexes were immunoblotted with AR and USP22 antibodies.