Supplemental Figure S3: ZMYM3 binds to H2A/H2AX and double stranded DNA within chromatin. (A) Soluble and chromatin fractionation analysis of endogenous ZMYM3. (B-C) Confirmation of H2AX loss in H2AX KO U2OS cells by Western blotting and immunofluorescence analysis. (D) Analysis of ZMYM3 DNA binding using gel shift assay with single stranded DNA (left panel) and double stranded DNA (right panel) radioactively labeled substrates. (E) Coomassie stained gel of nucleosome core particles containing H2A, H2AX or H2AZ. (F) Histone binding assays with ZMYM3 aa. 1-300 fragment. MBP acts as a control. Coomassie gel shows inputs for indicated bacterially expressed and purified proteins.