



Figure S4. ZFTA-RELA^{FUS1} chromatin binding and remodelling: **A.** Top shows ChIP-seq profiles of RELA, ZFTA or ZFTA-RELA^{FUS1} binding profiles within the indicated genes in HEK293 cells. Bottom shows H3K27ac ChIP-seq of human ST-EP-ZFTA^{FUS} ependymoma. **B.** Venn diagram of overlap in ChIP-seq detected DNA binding sites of the indicated genes using DiffBind. P-values report representation factor for overlap of indicated binding sites. **C.** Hematoxylin and eosin (H&E) and immunohistochemical analysis of H3K27ac in our mouse model of ZFTA-RELA driven ependymoma (mST-EP-ZFTA^{FUS}), non-ZFTA-RELA driven ependymoma driven by RTBDN (mST-EP-RTBDN) and a human patient derived xenograft of human mST-EP-ZFTA^{FUS} (PDX-mST-EP-ZFTA^{FUS}). Scale bar=100 μ m **D.** Principal Component Analyses of histone mark ChIP-seq profiles in mNSCs transduced with ZFTA-RELA^{FUS1} or empty vector control. **E.** Volcano plots depicting changes in histone marks in mNSCs transduced with ZFTA-RELA^{FUS1} vs. vector control (peaks called with Sicer; n=4 replicates).