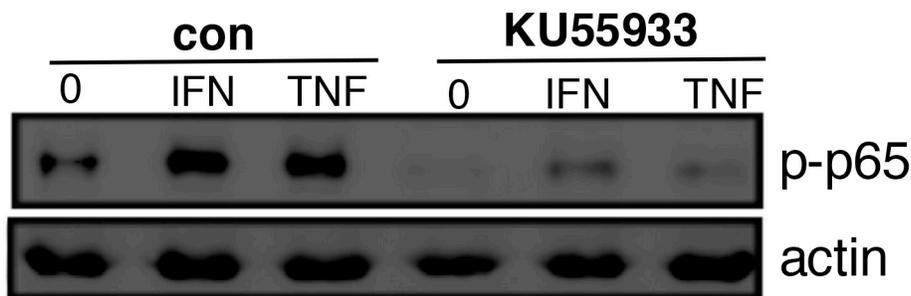
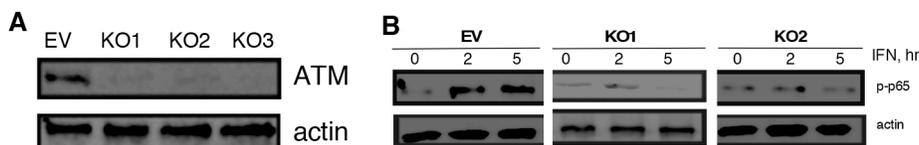


MicroRNA203a suppresses glioma tumorigenesis through an ATM-dependent interferon response pathway

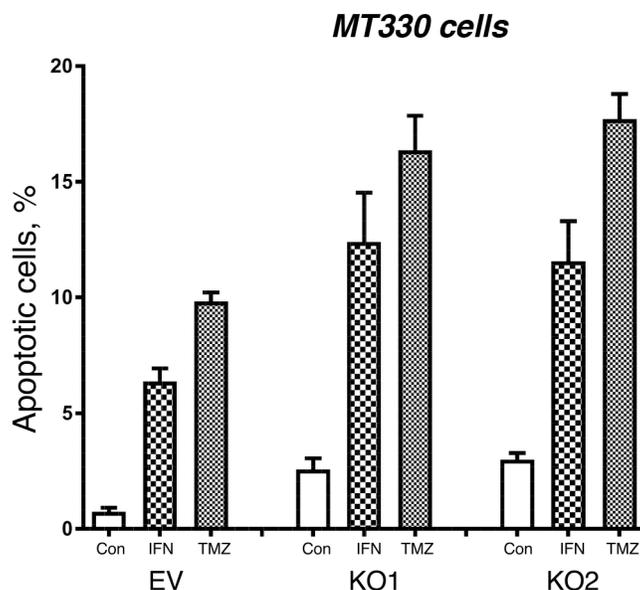
SUPPLEMENTARY MATERIALS



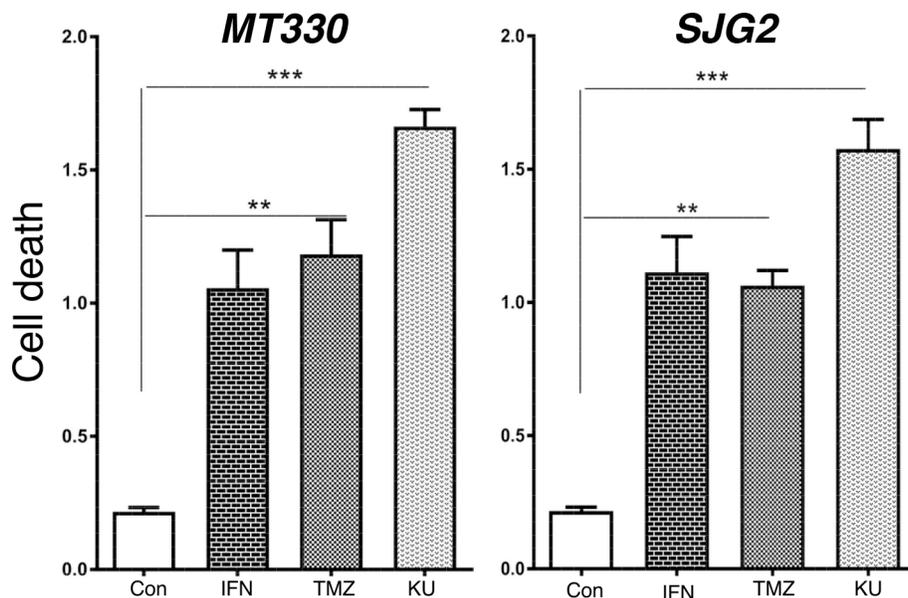
Supplementary Figure 1: KU55933 treatment blocks the induction of NFκB activity. Cell lysates were prepared from MT330 cells treated with IFN (1000 IU/ml), or TNF (20 ng/ml) in the presence or absence of the ATM inhibitor (10 μM KU55933, 1 hr pretreatment), and immunoblotted with an antibody specific for phosphorylated p65.



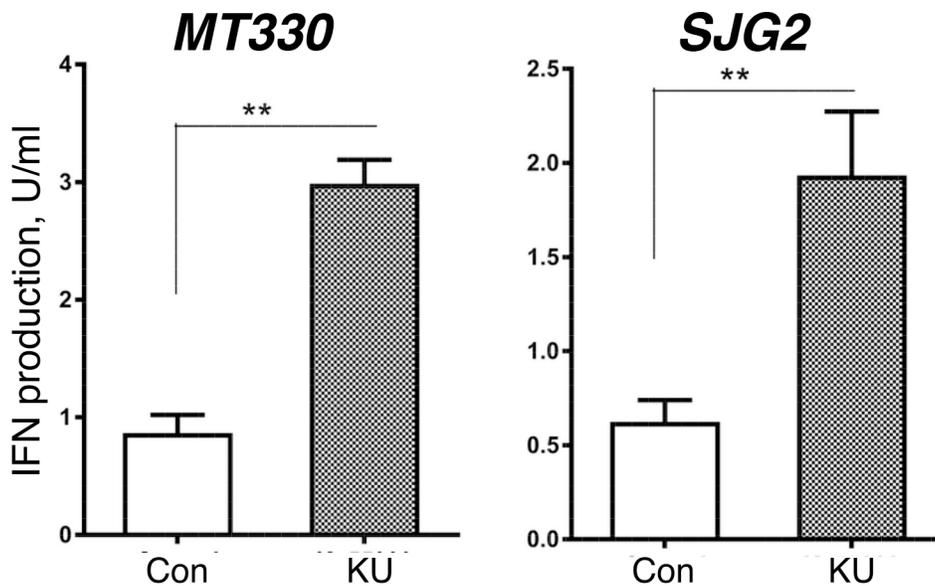
Supplementary Figure 2: Characterization of ATM-KO SJJ2 cells. (A) Cell lysates were prepared from pools of ATM-KO SJJ2 cells using different gRNAs and immunoblotted as indicated. (B) Lysates were prepared from ATM-KO1 or ATM-KO2 cells, and immunoblotted with an antibody specific for phosphorylated p65.



Supplementary Figure 3: The effects of ATM-KO on the induction of apoptosis. MT330 cells were treated for 24 hr with IFN (1,000 IU/ml) or TMZ (100 μM), and apoptosis was monitored by flow cytometry using the Annexin V-FITC apoptosis detection kit (BD Biosciences).



Supplementary Figure 4: The effects of ATM inhibition on the induction of apoptosis. GBM cells were treated for 24 hr with IFN (1,000 IU/ml), TMZ (100 μ M) or KU55933 (10 μ M) and analyzed for apoptosis by cell death detection ELISA assays.



Supplementary Figure 5: The effects of ATM inhibition on the induction of IFN gene expression. Media from GBM cells treated for 24 hr with KU55933 (10 μ M) was assayed on human CaKi cells expressing an ISRE-driven luciferase reporter construct, and results expressed as IFN IU/ml.

Supplementary Table 1: Genes induced by enforced miR203a expression in MT330 and SJJ2 GBM cells.

See Supplementary File 1