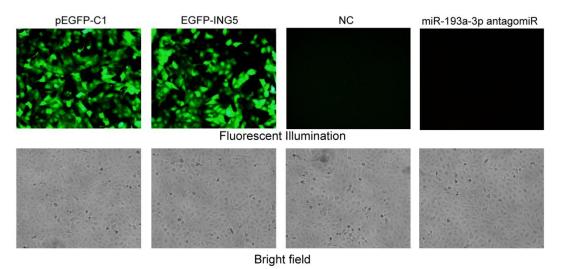
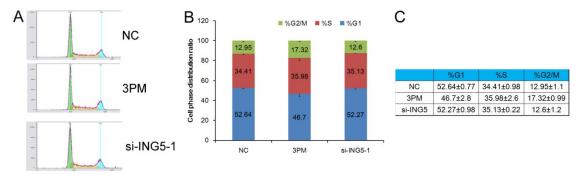
## The miR-193a-3p-regulated ING5 gene activates the DNA damage response pathway and inhibits multi-chemoresistance in bladder cancer

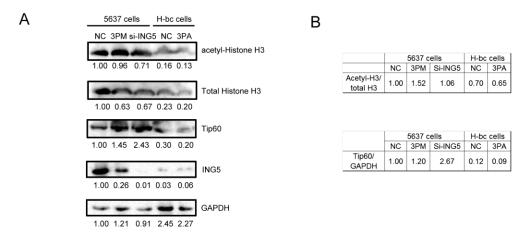
## **Supplementary Material**



**Supplementary Figure 1**: The ING5 level in miR-193a-3p antagomiR- and overexpression construct-transfected H-bc cells. A representative field of H-bc cells transfected with miR-193a-3p antagomiR and the GFP-tagged ING5 ectopic expression construct is shown. Top panel: the green fluorescent illuminated field. Bottom panel: the bright field. The pEGFP-C1 vector and a nonsense microRNA sequence were used as negative controls.



**Supplementary Figure 2:** The effects of the forced reversal of both the miR-193a-3p and ING5 levels on the cell cycle profile of 5637 cells by FACS analysis. The percentages of cells in the G1 (blue), S (brown), and G2/M phases (green) compared with the original (**A**) is also shown in plot (**B**) and table (**C**) formats.



**Supplementary Figure 3**: ING5's effects on histone H3 acetylation and Tip60 level. **A**, Levels of acetylhistone H3, total histone H3, Tip60 and ING5 in miR-193a-3p mimic- and ING5 siRNA-transfected 5637 cells and miR-193a-3p antagomiR-transfected H-bc cells compared with NC-transfected cells as assessed by Western blot. **B**, The ratio of the acetyl-histone H3 level to the total histone H3 level and the relative Tip60 protein level are calculated and summarized in the table.