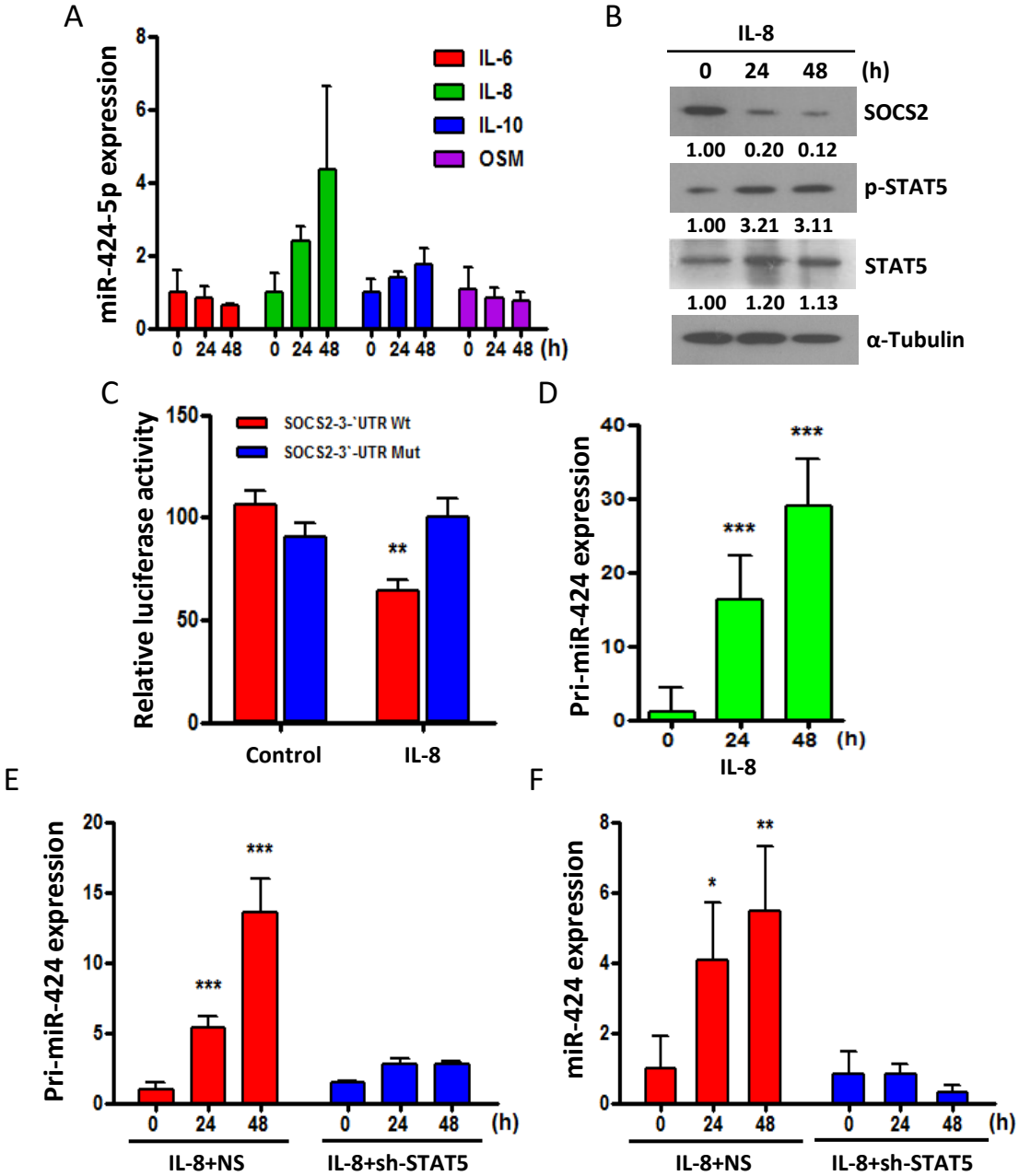
Supplementary Figure 6



Supplementary Figure 6 - miR-424-5p disrupts IL-8/STAT5/SOCS2 feedback loop. A: qRT–PCR analysis showing the expression level of miR-424-5p in DOK cells treated with various cytokines, including IL-6, IL-8, IL-10 and OSM (each for 10 ng/ml) for indicated time periods. **B:** Western blot analysis of the SOCS2, STAT5 and phosphor-STAT5 in DOK cells after addition of IL-8 (10 ng/ml) for 24 and 48 h. The numerical values for protein band intensities were corrected with the values for the loading control α-tubulin bands. **C:** The effect of IL-8 (10 ng/ml) on the luciferase activities of the constructs containing the wild-type or mutant-type SOCS2 3'-UTR in DOK cells. The relative luciferase activity of each sample is measured at 48 h after transfection and normalized to Renilla luciferase activity. **D:** qRT–PCR analysis of primary miR-424 (pri-miR-424) expression in DOK cells treated with IL-8 (10 ng/ml). **E-F:** qRT–PCR analysis of primary miR-424 (pri-miR-424) (**E**) and mature miR-424 (miR-424-5p) (**F**) in DOK5 cells transfected with control (NS) or STAT5 shRNAs for 24 hours and subsequently treated with IL-8 for 24 or 48 h. All data are presented as mean ± SE; *, $p<0.05$; **, $p<0.01$; ***, $p<0.001$ and one-way ANOVA $p=0.0073$.(A), $p=0.0073$ (C), $p<0.0001$ (D), $p<0.0001$ (E), $p=0.0011$ (F).