

Supporting Information for

Intracellular regulation of zinc by metal-organic framework-mediated genome editing for prostate cancer therapy

Yanan Xue^{a,b,#}, Honglin Tang^{a,b,#}, Guangpeng Chen^a, Yubin Pan^a, Da Li^{*,a} and Yuan Ping^{*,b,c}

^aSir Run Run Shaw Hospital, School of Medicine, Zhejiang University, Hangzhou, 3100016, China.

^bCollege of Pharmaceutical Sciences, Zhejiang University, Hangzhou, 310058, China.

^cLiangzhu Laboratory, Zhejiang University Medical Center, Hangzhou 311121, China.

These authors contributed equally to this work.

* Corresponding author. Email: pingy@zju.edu.cn (Y.P.); lidaonconew@zju.edu.cn (D.L.)

Supplementary Figure

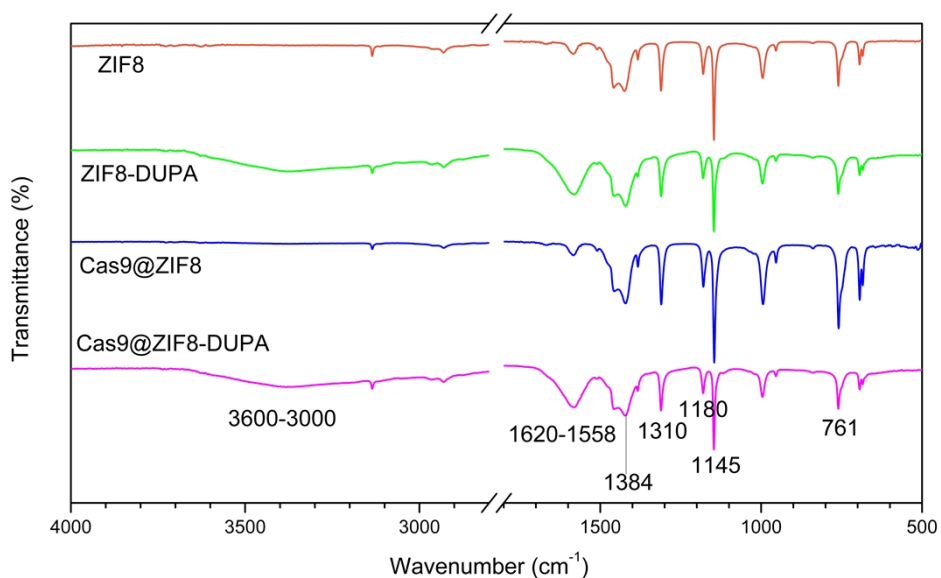


Fig. S1 FTIR patterns of ZIF8, ZIF8-DUPA, Cas9@ZIF8 and Cas9@ZIF8-DUPA.

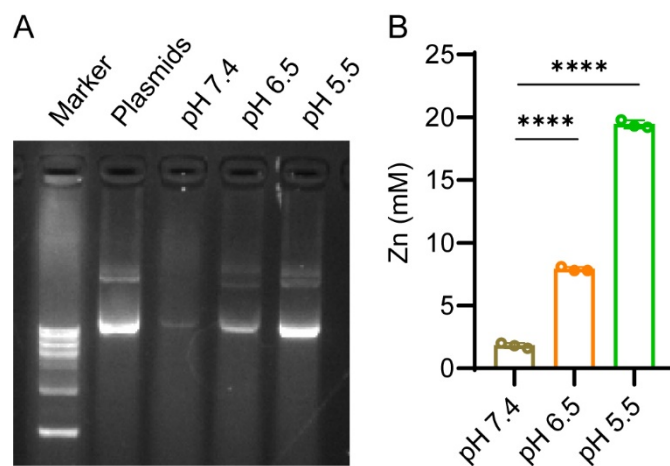


Fig.S2 In vitro plasmids release study of Cas9@ZIF8 in various pH conditions. (A) Agarose gel electrophoresis of the plasmids in supernatant of Cas9@ZIF8 nanoparticles in various pH conditions for 24h. (B) The zinc concentration of in supernatant of Cas9@ZIF8 nanoparticles in various pH conditions for 24h. Data represent mean \pm S.D. (n = 3, one-way ANOVA with a Tukey's post-hoc test, **** p < 0.0001).