

Supplementary Figures

miR-455-5p promotes pathological cardiac remodeling via suppression of PRMT1-mediated Notch signaling pathway

Sidong Cai^{a,b}, Junlei Chang^b, Mengqi Su^a, Yinxia Wei^c, Haoran Sun^d, Cong Chen^{*a},

Kai-Hang Yiu^{*a}

^a Division of Cardiology, Department of Medicine, The University of Hong Kong-Shenzhen Hospital, Shenzhen, China;

^b Institute of Biomedicine and Biotechnology, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China;

^c School of Public Health, Southern Medical University, Guangzhou, China;

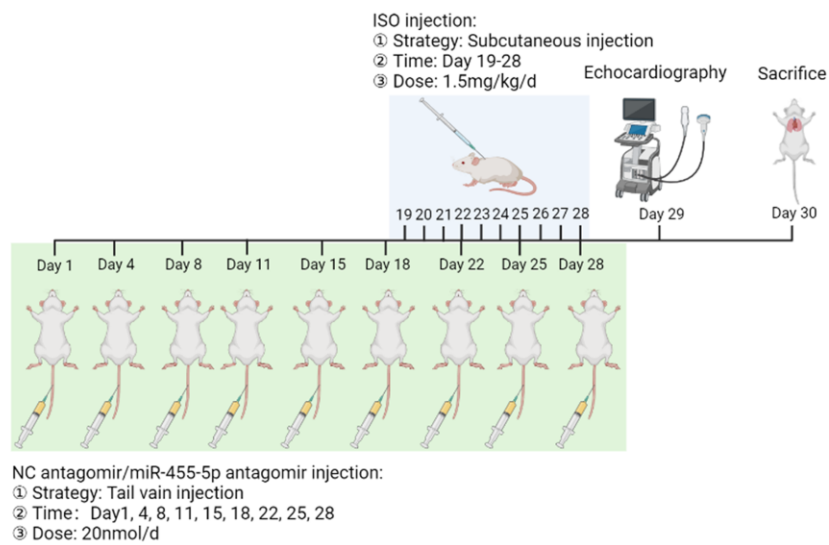
^d Department of Clinical Microbiology and Infection Control, The University of Hong Kong-Shenzhen Hospital, Shenzhen, China.

* Correspondence to: Prof. Kai-Hang Yiu, email: khkyiu@hku.hk;

Prof. Cong Chen, email: chenc6@hku-szh.org.

Fig. S1

a



b

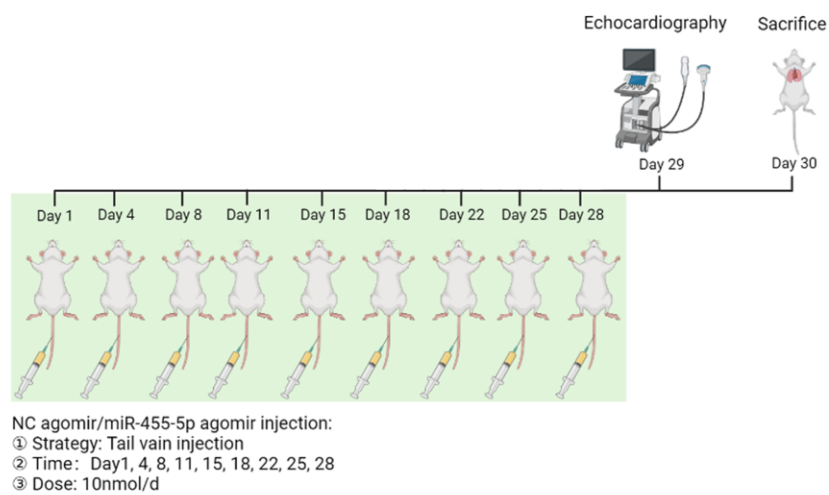


Fig. S2

a

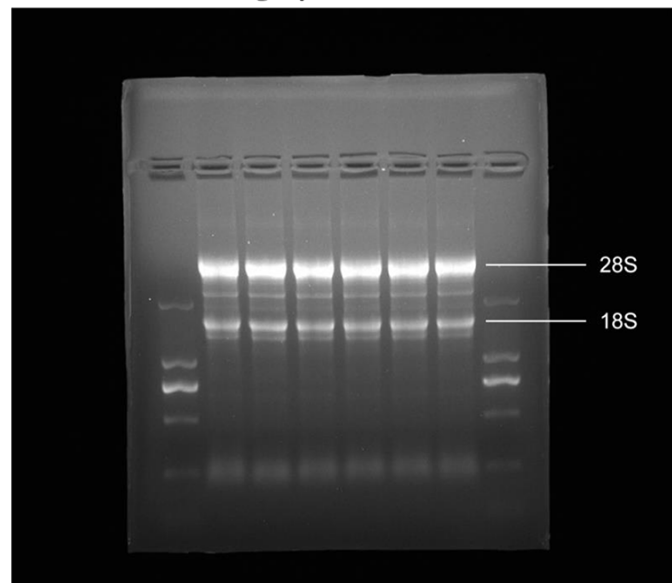
RNA quantification and quality assurance by Nanodrop One

Sample name	OD260/280*	OD260/230*	Concentration (ng/μl)	Volume (μl)	Quantity (ng)
NC mimic	1.97	2.05	823.15	30	24694.50
NC mimic+ISO	1.98	2.07	862.72	30	25881.60
miR-455-5p mimic	1.93	2.01	872.13	30	26163.90
MiR-455-5p+ISO	1.96	2.01	880.29	30	26408.70
NC inhibitor	1.92	2.05	795.10	30	23853.00
NC inhibitor+ISO	1.96	2.03	772.16	30	23164.80
miR-455-5p inhibitor	1.97	2.04	765.37	30	22961.10
miR-455-5p inhibitor+ISO	1.97	2.07	783.69	30	23510.70
CON	1.94	2.01	803.24	30	24097.20
ISO	1.96	2.02	807.39	30	24221.70
CID2818500	1.92	2.02	821.67	30	24650.10
CID2818500+ISO	1.97	2.04	833.17	30	24995.10
NC	1.95	2.06	892.79	30	26783.70
si-PRMT1	1.95	2.07	885.26	30	26557.80

* For spectrophotometer, OD260/280 between 1.8-2.0 and OD260/230 over 2.0 are acceptable for pure RNA.

b

RNA integrity and contamination test



* RNA integrity and contamination test was conducted by denaturing agarose gel electrophoresis.

Fig. S3

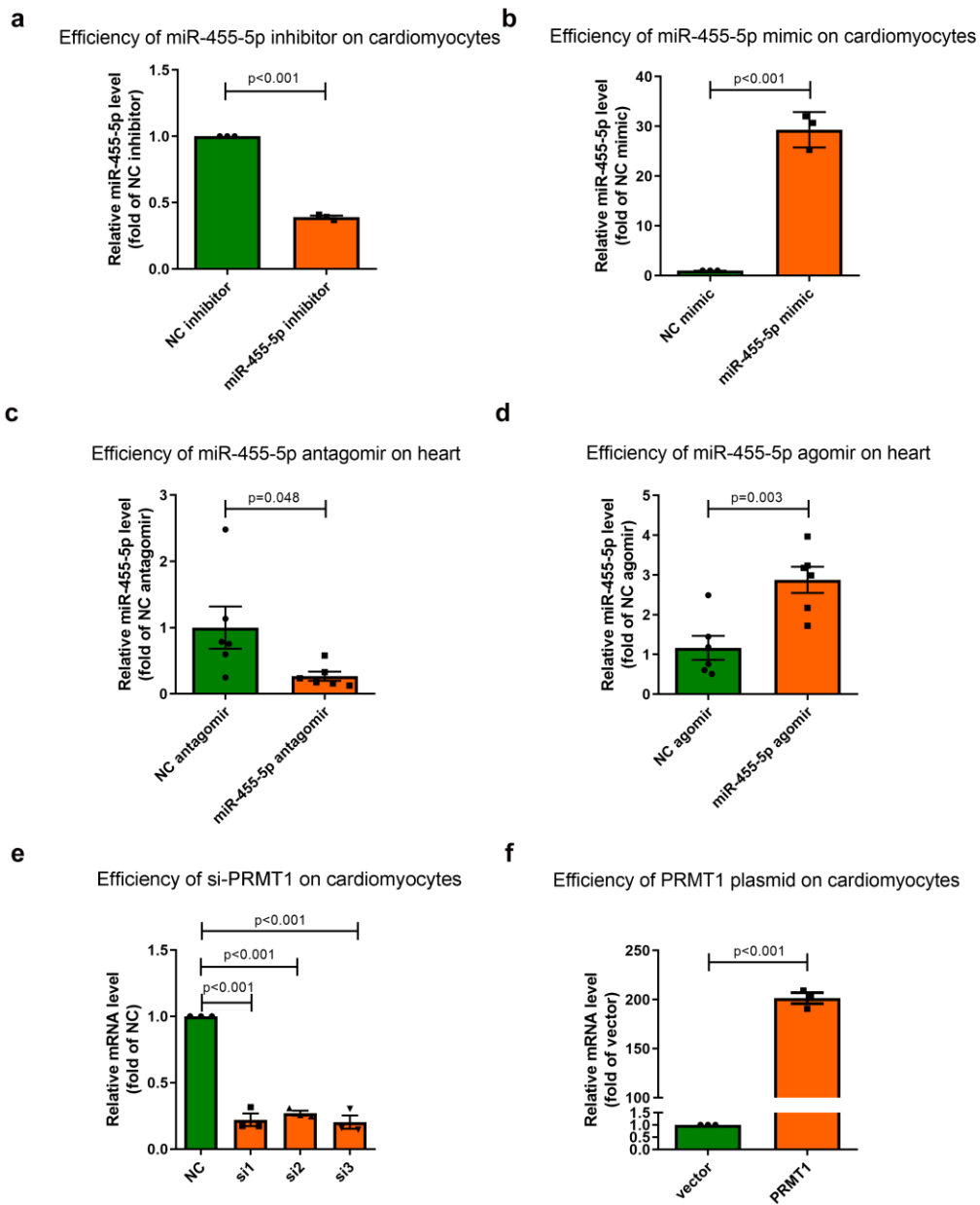


Fig. S4

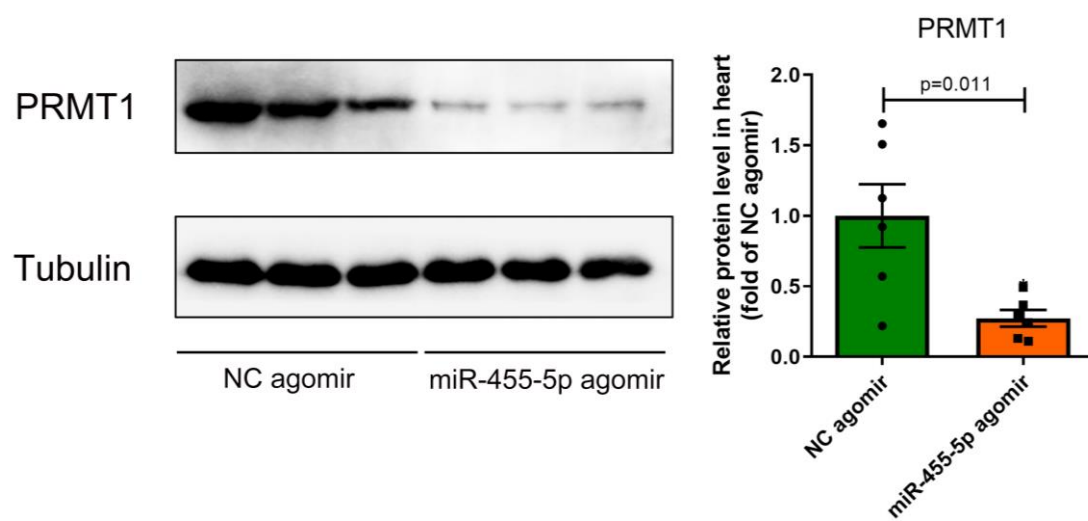


Fig. S5

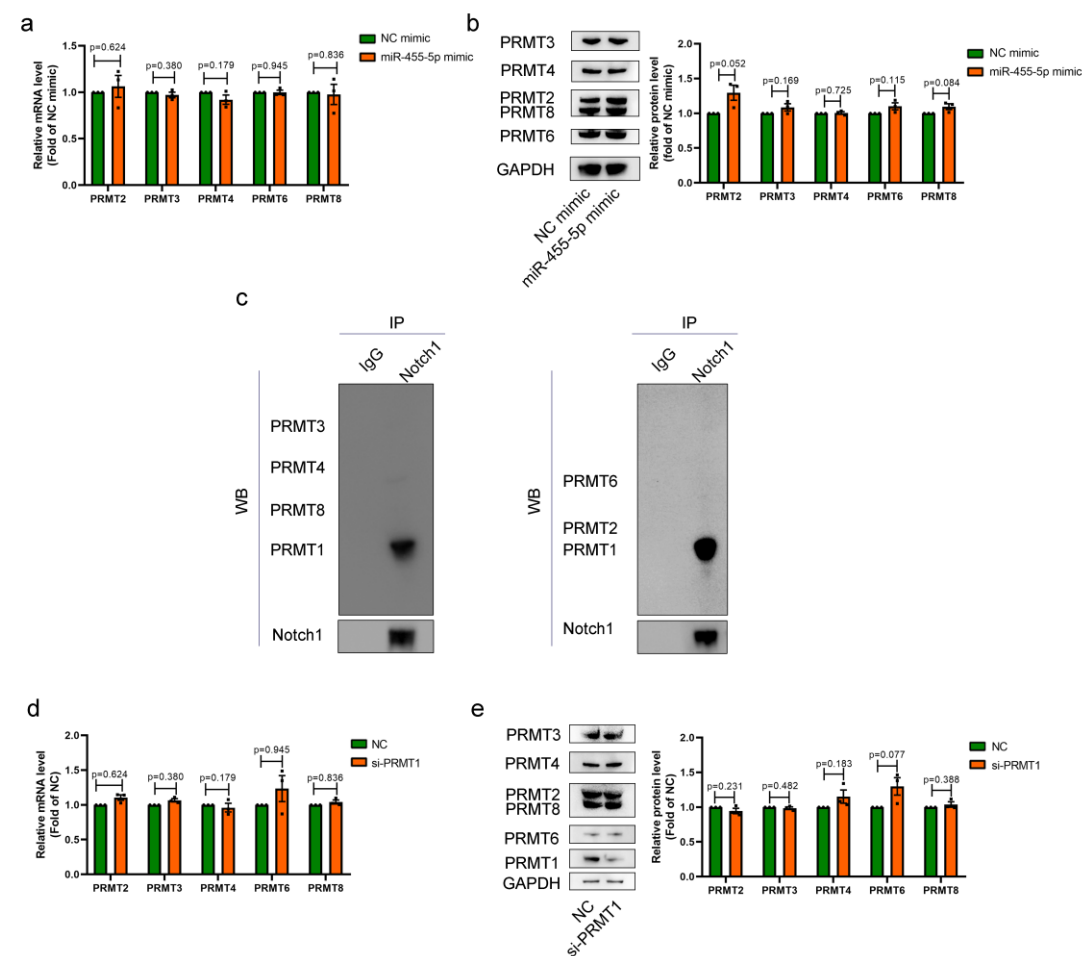


Fig. S6

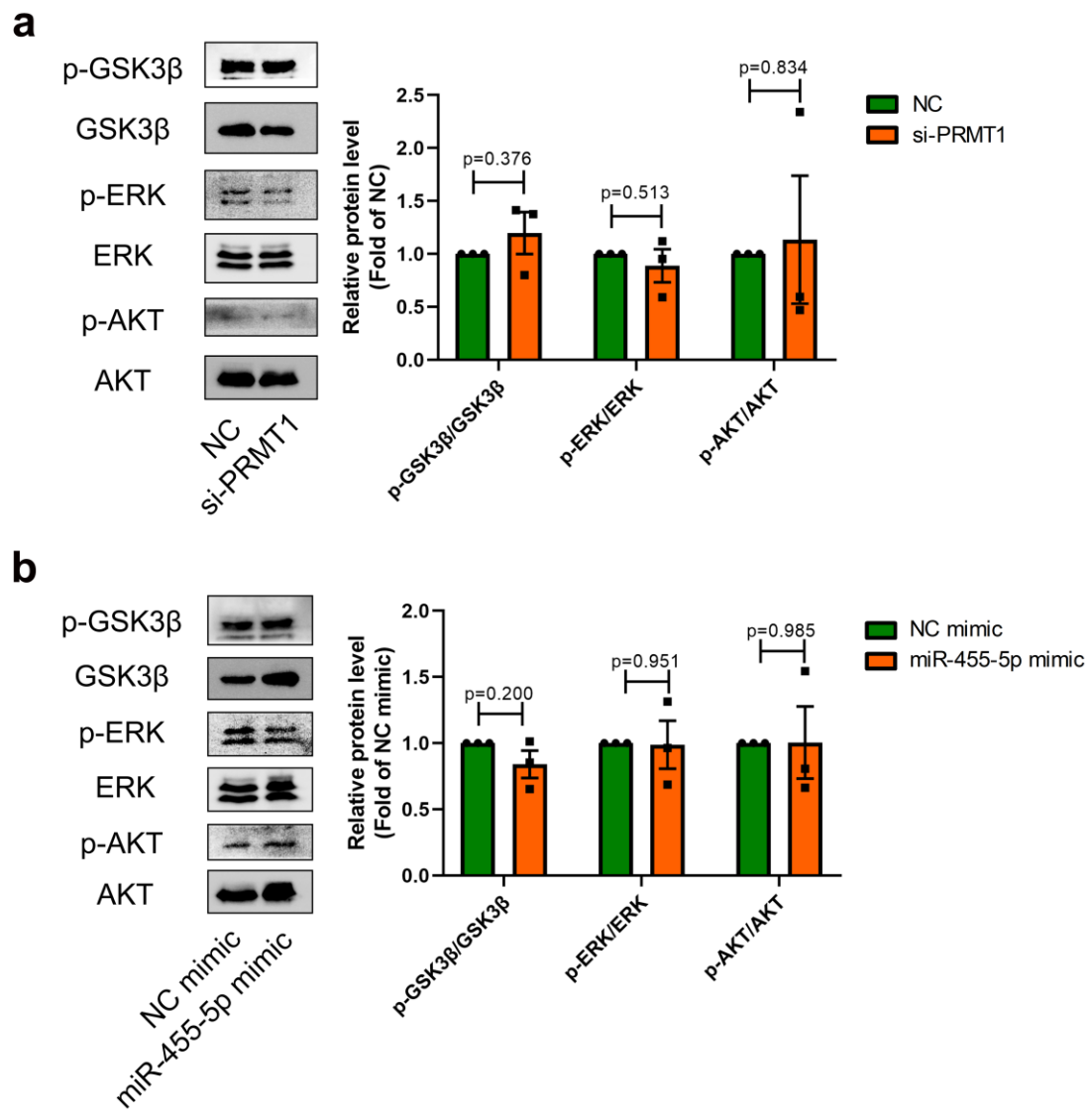


Fig. S7

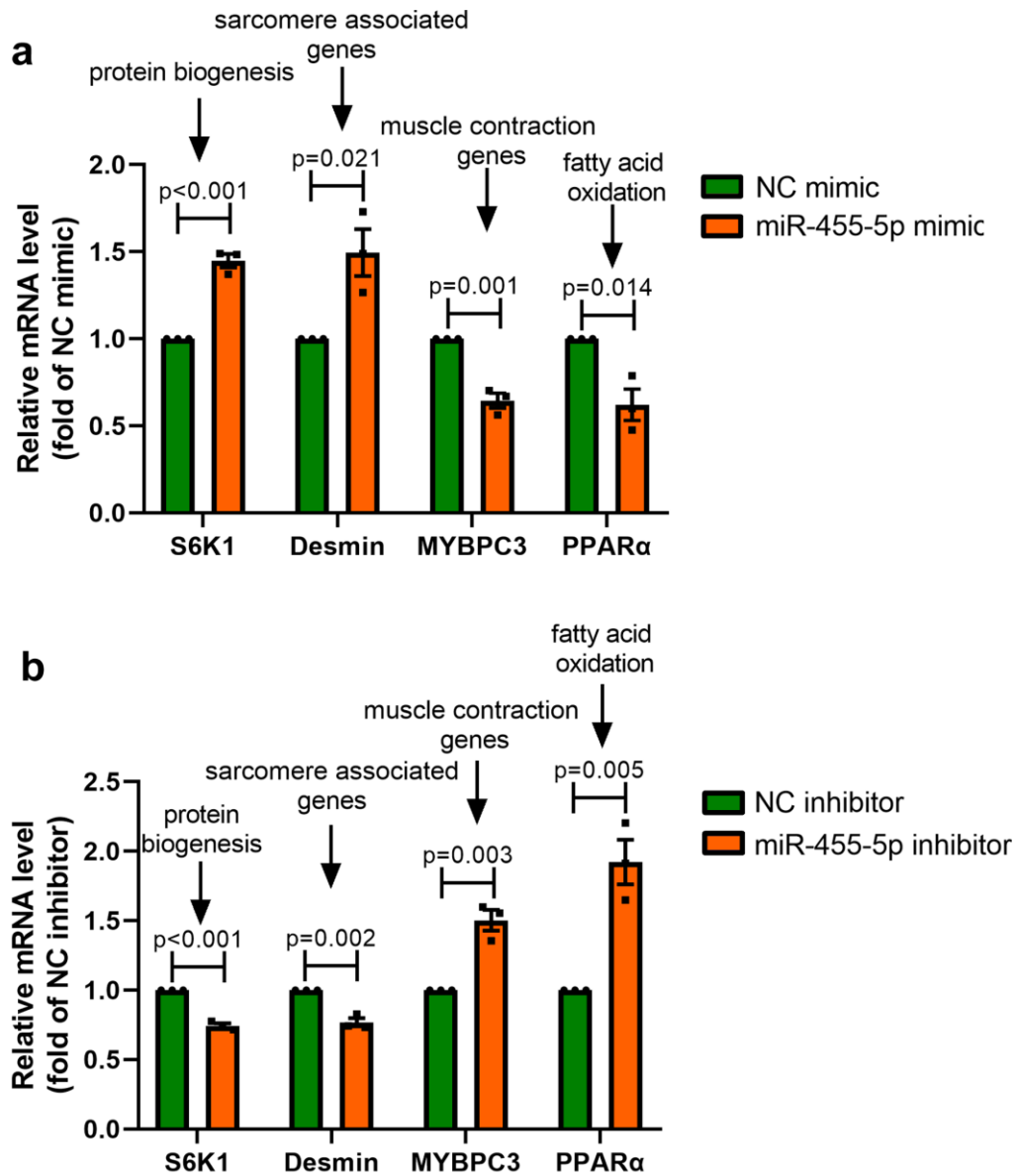


Fig. S8

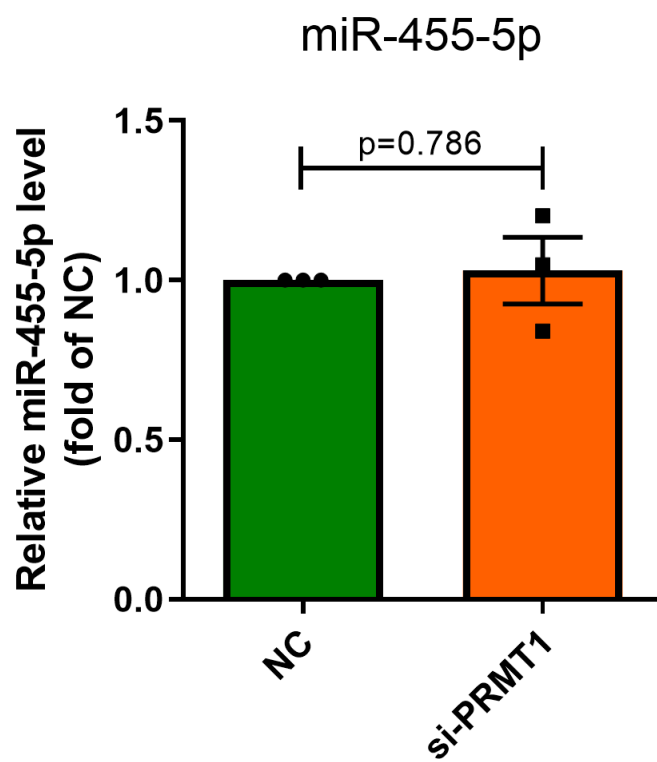


Fig. S9

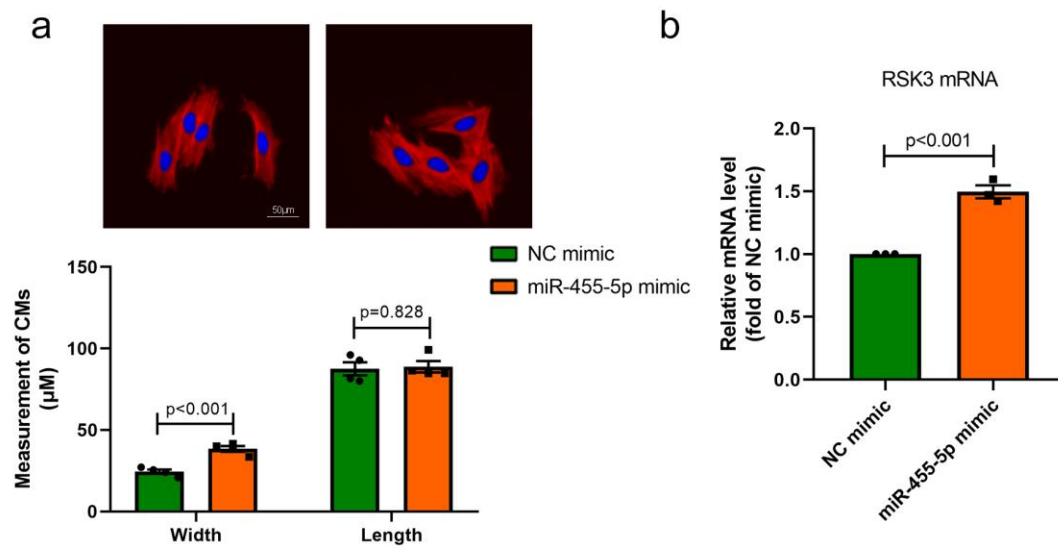


Fig. S10

