

Supporting Information
One-pot synthesis of poly(2-dimethyl amino)ethyl
methacrylate-bound iron oxide nanoparticles for
magnetofection

Shih-Jer Huang^{a#}, Jyun-Han Ke^{a#}, Guo-Jing Chen^a, and Li-Fang Wang^{a,b*}

^a*Department of Medicinal & Applied Chemistry*, ^b*Department of Biotechnology*,

Kaohsiung Medical University, Kaohsiung 80708, Taiwan

These authors contributed equally to this paper.

***Correspondence to: Li-Fang Wang, Professor of Medicinal & Applied
Chemistry**

Kaohsiung Medical University

College of Life Science

100 Shih-Chuan 1st Road, Kaohsiung City 807, Taiwan

Tel: 886-7-312-1101 ext. 2217

Fax: 886-7-312-5339

E-mail: lfwang@kmu.edu.tw

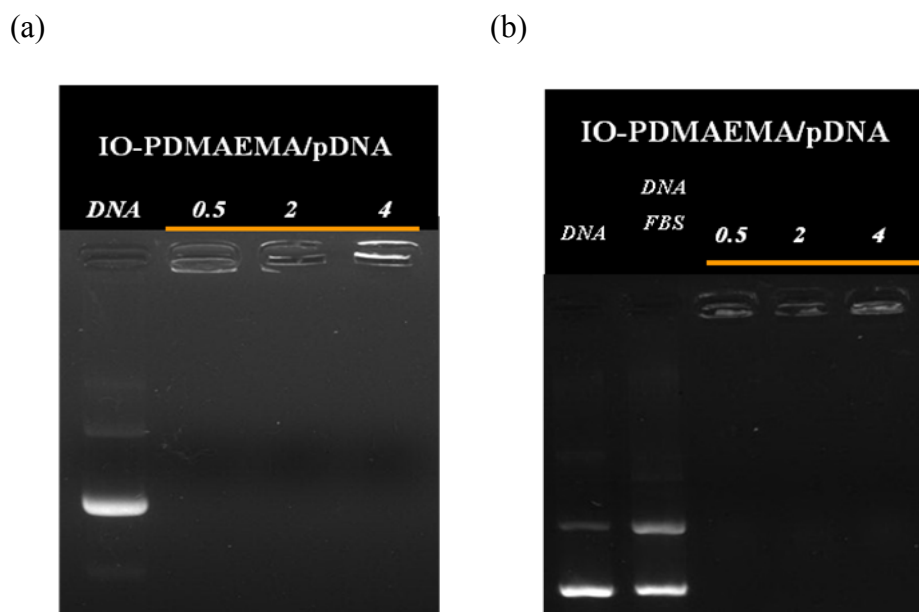


Fig. S1 The stability of IO-PDMAEMA/pDNA (w/w ratio of 5) after 0.5, 2 and 4 h incubation without (a) and with (b) 10% FBS.

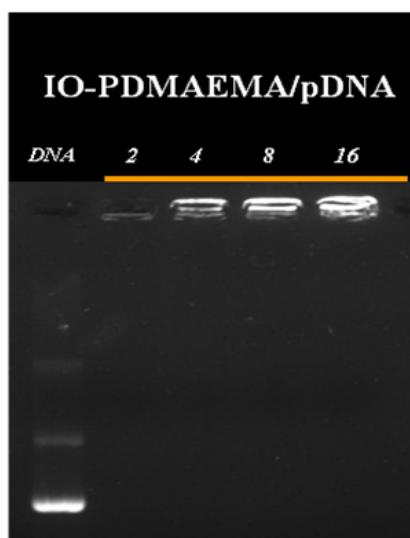


Fig. S2 The loading capacity of pDNA in IO-PDMAEMA using IO-PDMAEMA/pDNA at a fixed w/w ratio of 5 with various amounts of pDNA in a microgram scale.

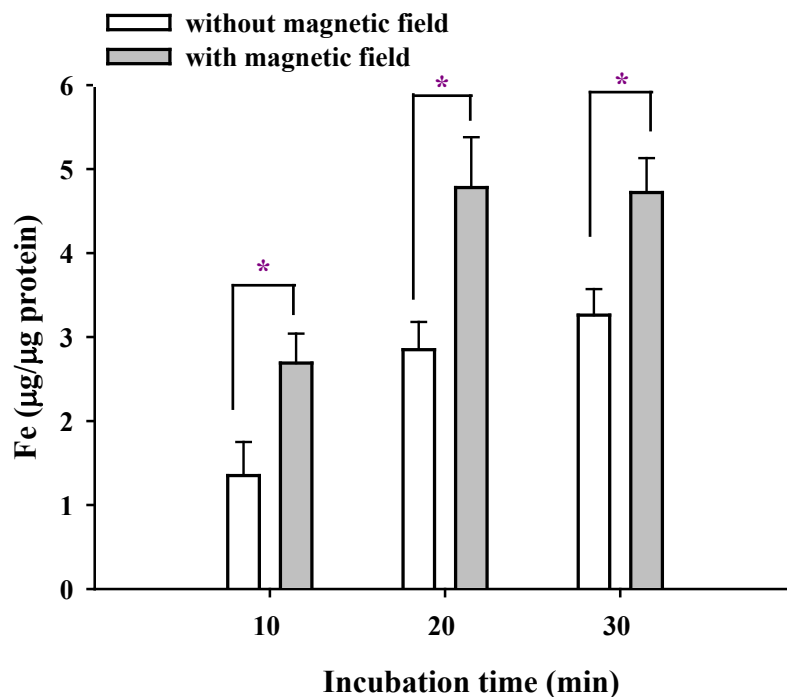


Fig. S3 The internalized iron content in HEK 293T cells quantified using ICP-OES with different incubation time. The IO-PDMAEMA/pDNA was prepared at the w/w ratio of 5 ($n=3$, $*p < 0.05$).

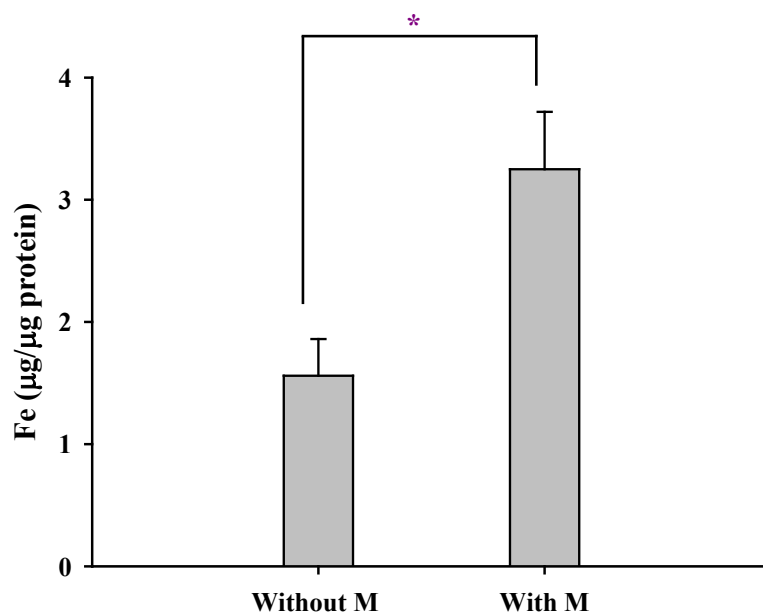


Fig. S4 The internalized iron content in HEK 293T cells quantified using ICP-OES with 10% FBS and 20 min incubation time. The IO-PDMAEMA/pDNA was prepared at the w/w ratio of 5 ($n=3$, $*p < 0.05$).