Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Electronic supplementary information

Cross-linked polymers with fluorinated bridge for efficient gene delivery

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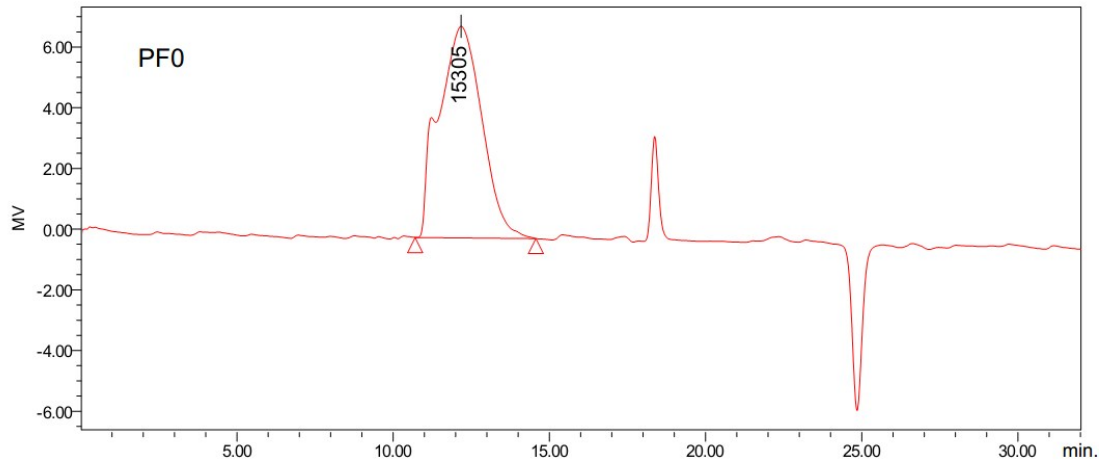
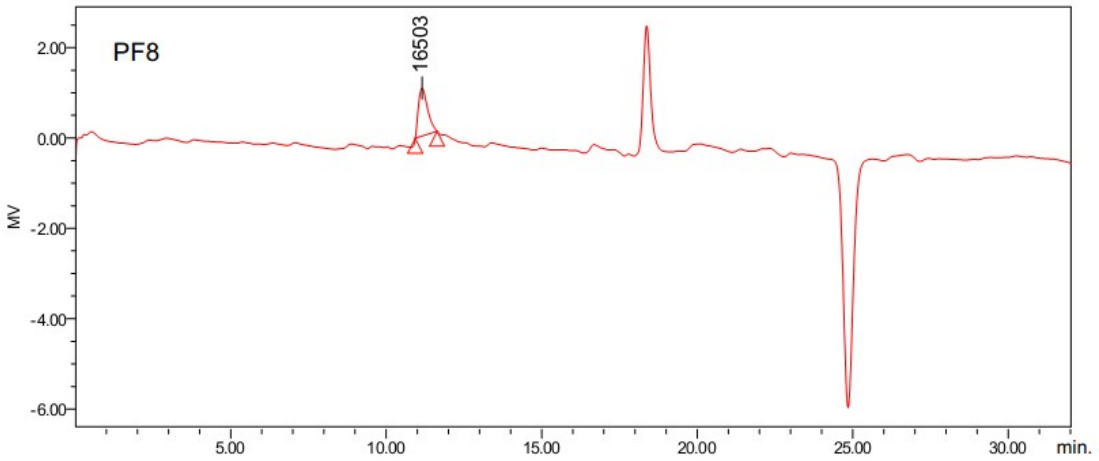
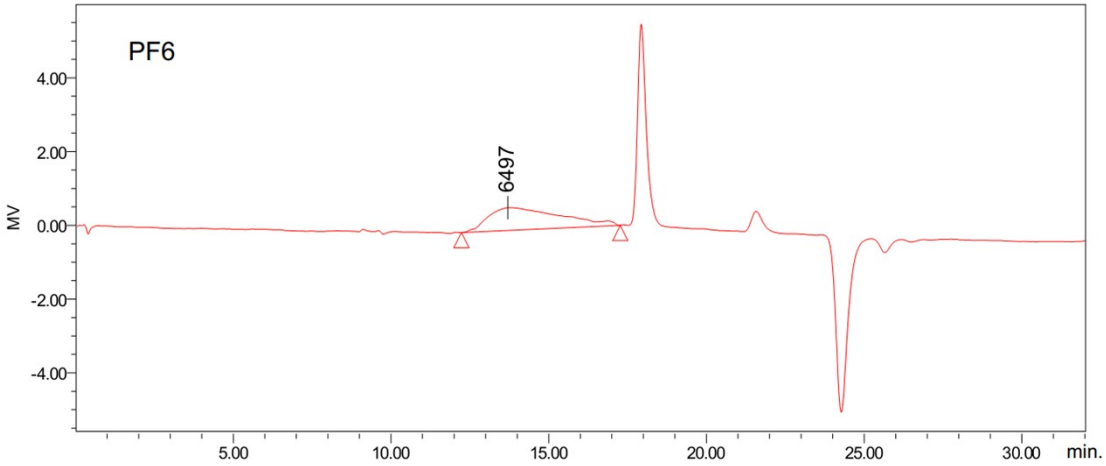


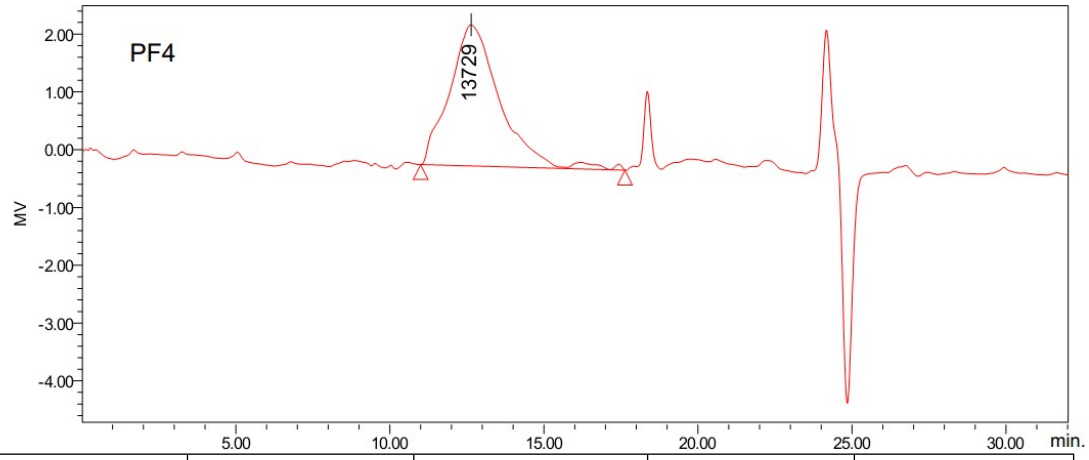
	Mn (Da)	Mw (Da)	Mp (Da)	PDI
PF0	14554	14823	15305	1.02



	Mn (Da)	Mw (Da)	Mp (Da)	PDI
PF8	16499	16500	16503	1.00



	Mn (Da)	Mw (Da)	Mp (Da)	PDI
PF6	3155	5086	6497	1.61



	Mn (Da)	Mw (Da)	Mp (Da)	PDI
PF4	9231	12306	13729	1.33

Fig. S1. The GPC spectra of the synthesized polymers.

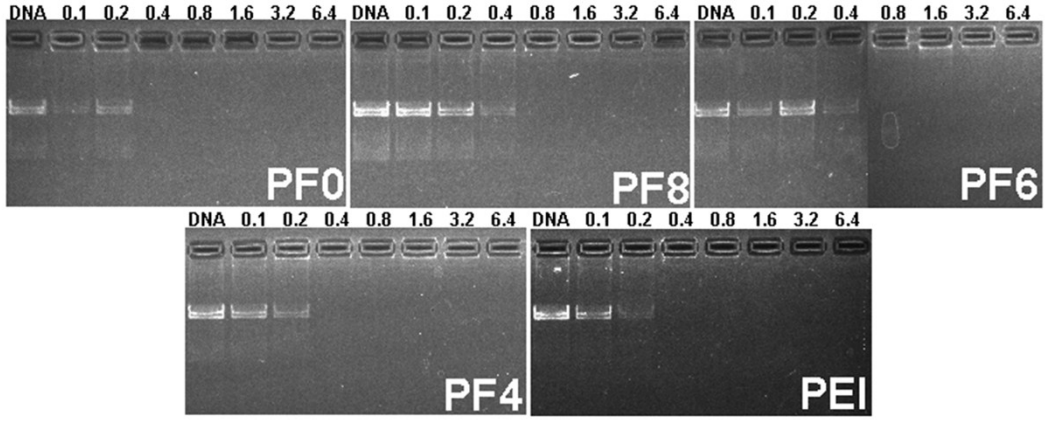


Fig. S2. Agarose gel electrophoresis of plasmid DNA complexed with cationic polymers at different weight ratios in the presence of serum (20%).

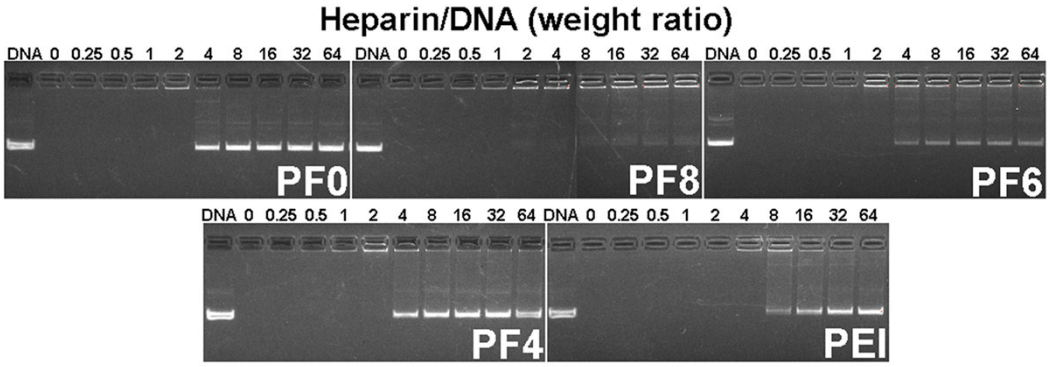


Fig. S3. Release of DNA with the addition of heparin at various concentrations via electrophoretic gel retardation assay. Polymer/DNA: w/w = 2.

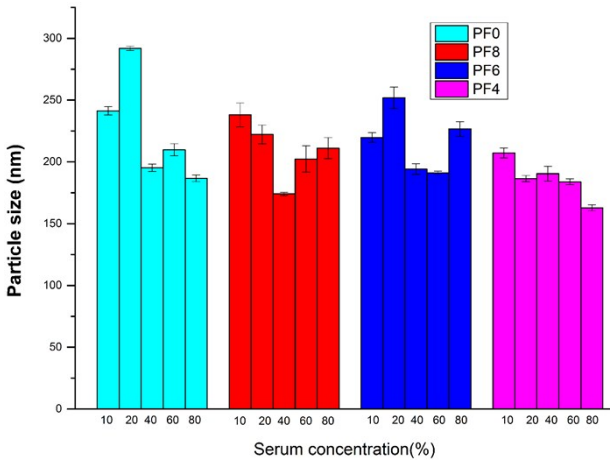


Fig. S4. Particle sizes of the polyplexes at w/w of 2 with the presence of different concentration of serum. Data represent mean ± SD (n = 3).

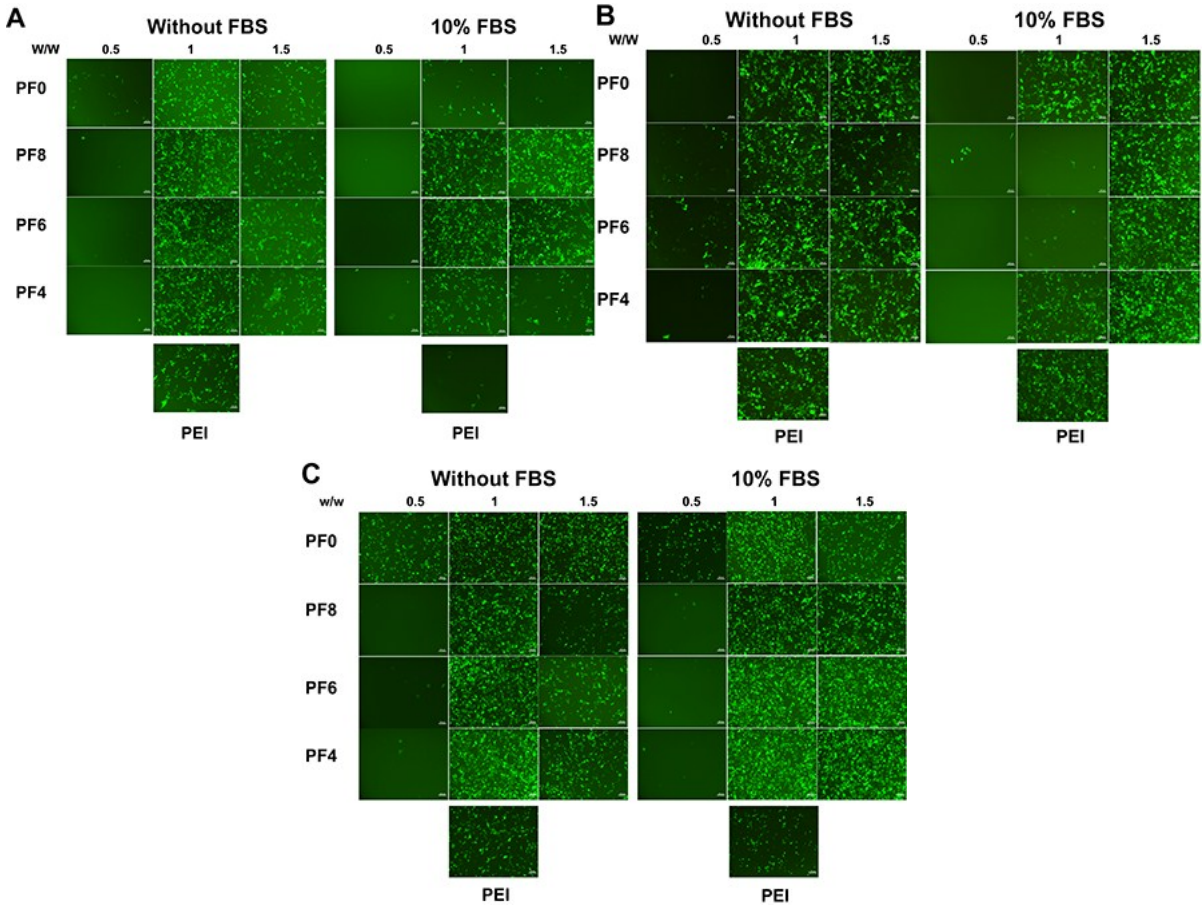


Fig. S5. EGFP gene transfection efficacy in HepG2 (A), HEK293 (B), and 7702 (C) cells.

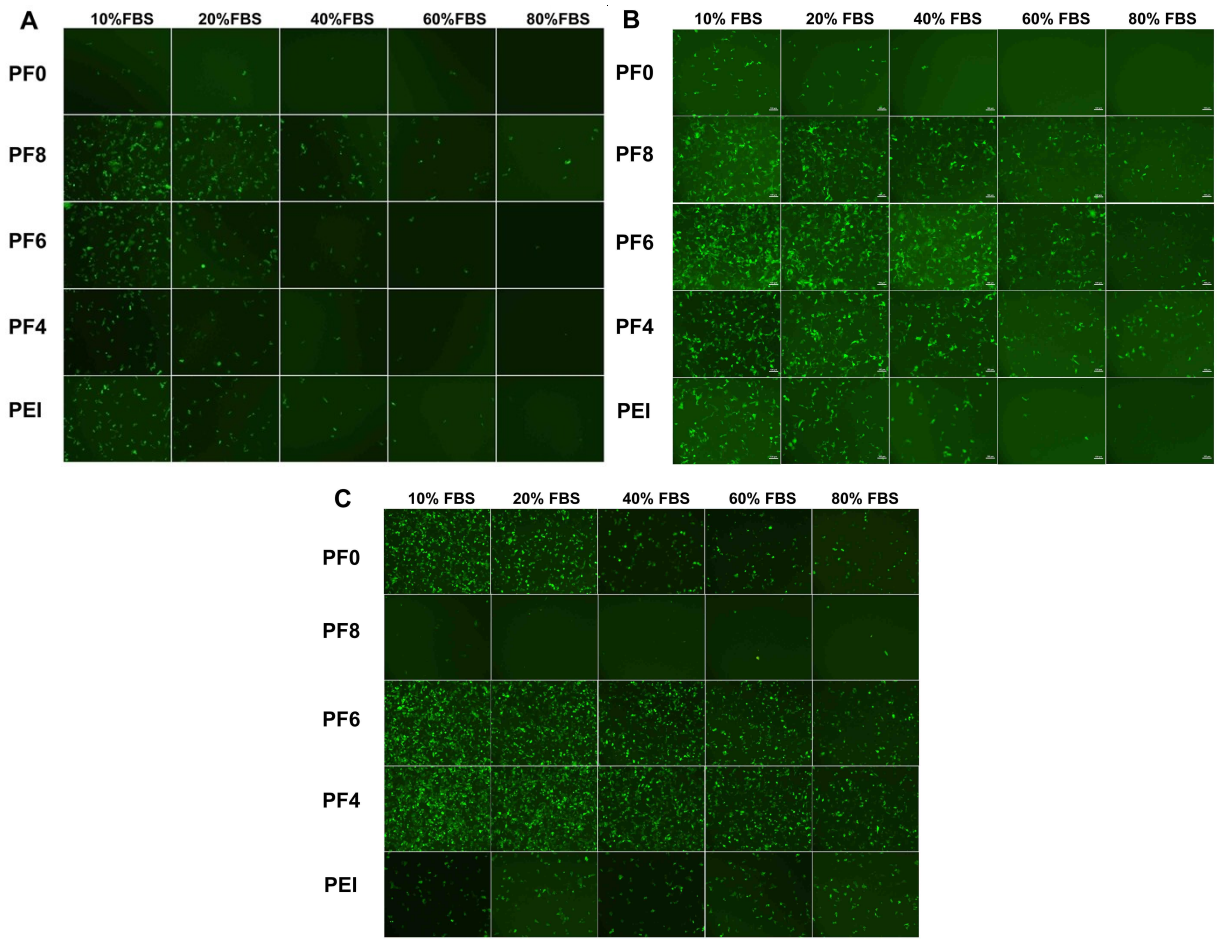


Fig. S6. EGFP gene transfection efficacy at optimal weight ratios against different concentrations of serum in HepG2 (A), HEK293 (B), and 7702 (C) cells.

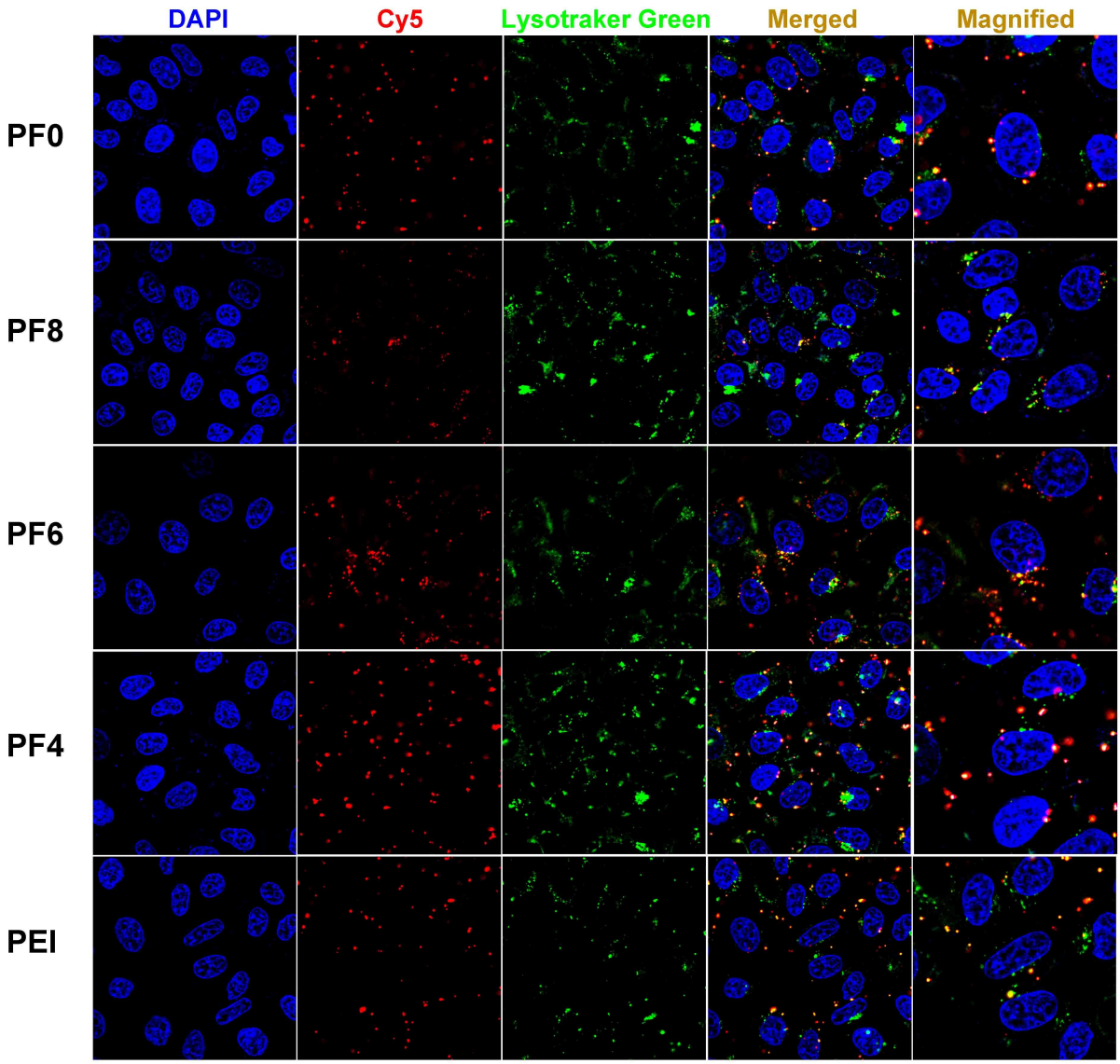


Fig. S7. Confocal images of HepG2 cells treated with DNA polyplexes at optimal transfection weight ratio for 4 h in presence of 10% serum. The nuclei were stained with DAPI (blue), DNA was labeled with Cy5 (red), and the endosome/lysosomes were stained with LysoTracker Green (green).