

## Supporting information

# A Core-Shell Structured Polyplex for Efficient and Non-toxic Gene Delivery

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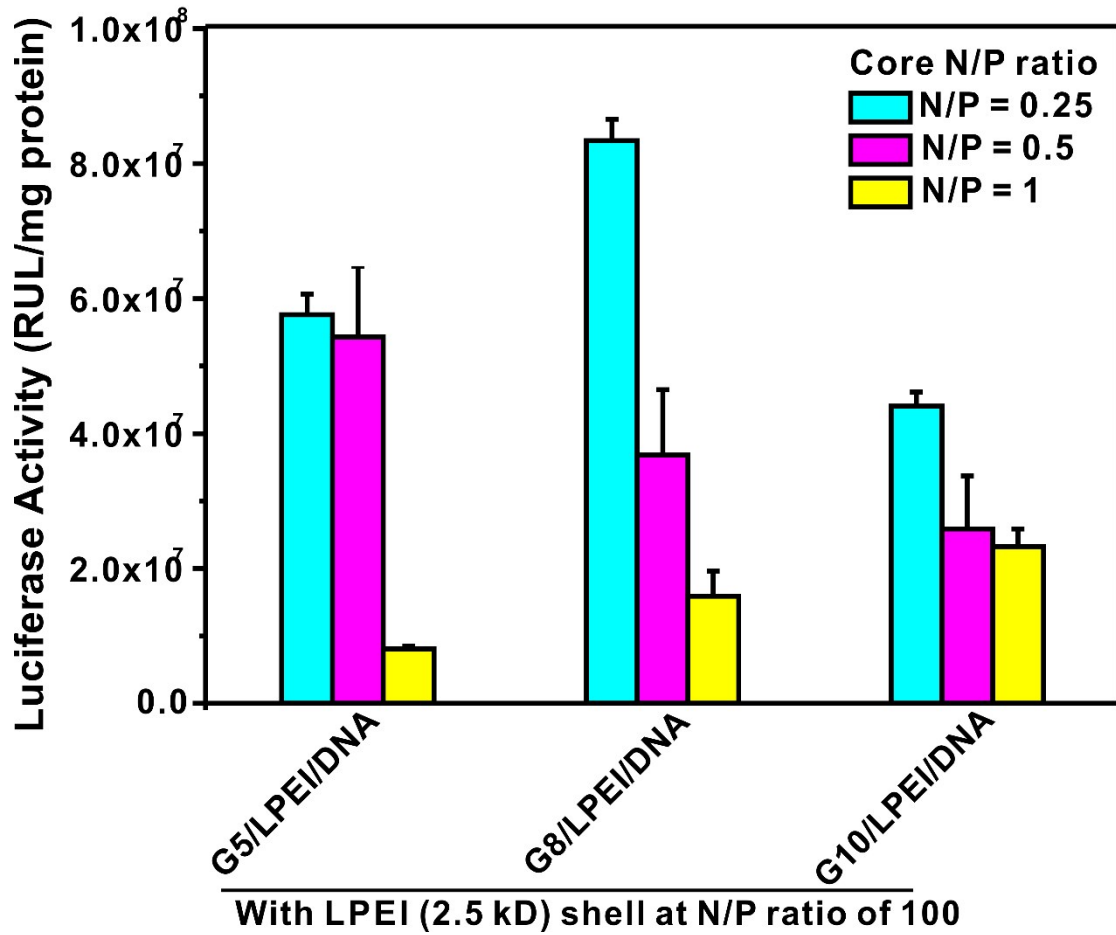
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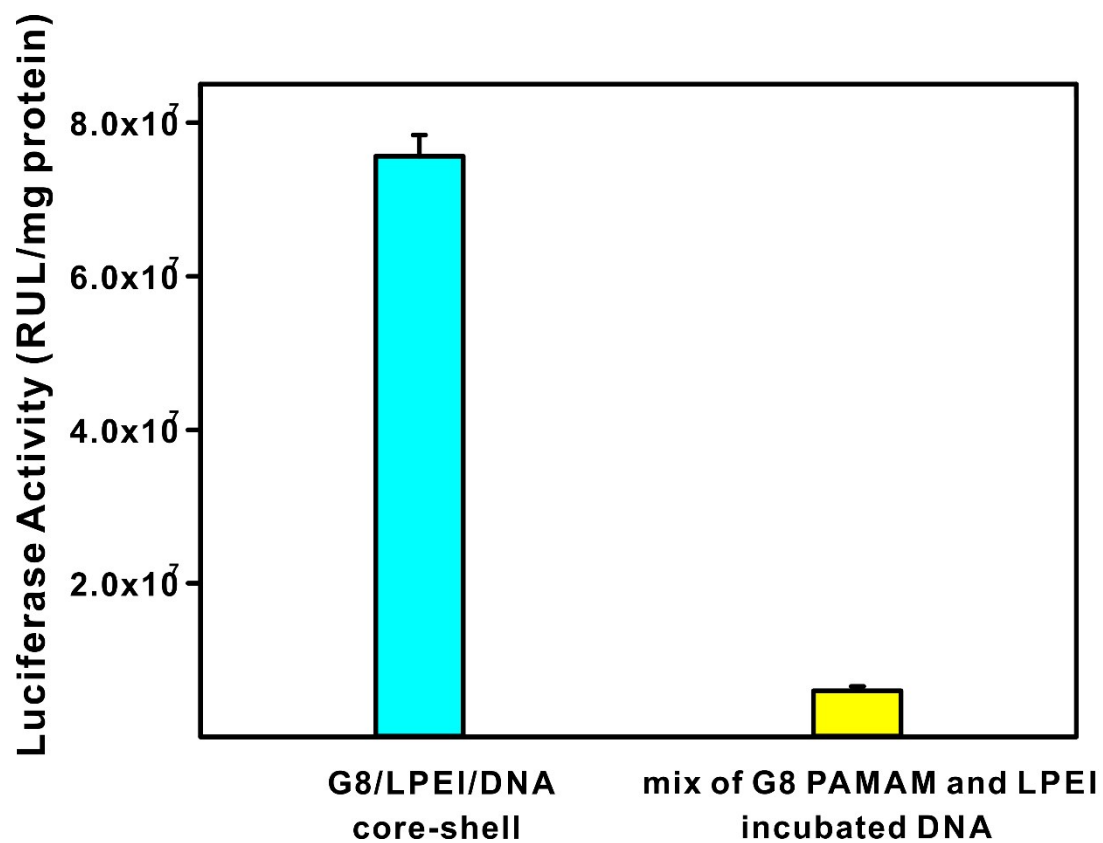
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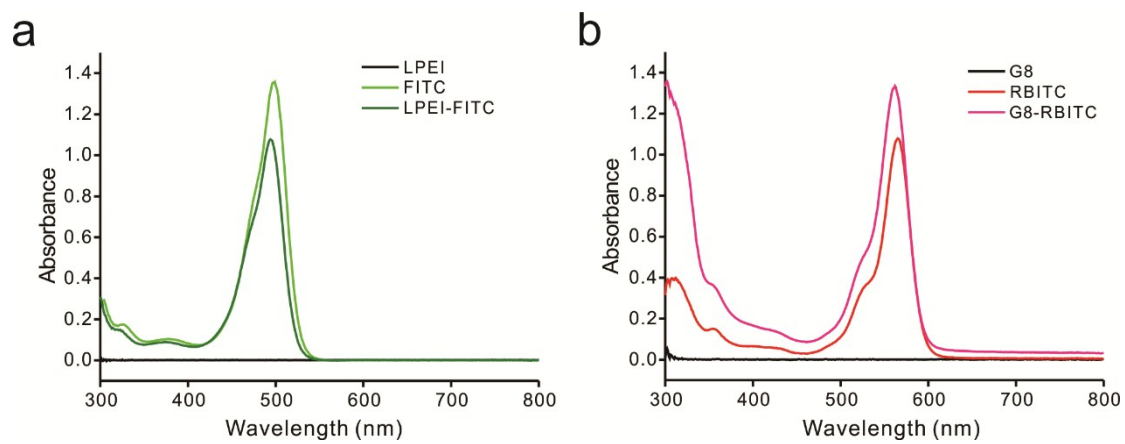
**Keywords:** dendrimer, polymer, polyethylenimine, gene delivery, core-shell polyplex



**Figure S1.** Transfection efficacies of core-shell structured polyplexes with different core polymers (G5, G8, and 10 PAMAM dendrimers) and a LPEI shell (2.5 kD). The core N/P ratios were 0.25, 0.5 and 1, respectively, and the shell N/P ratio was kept constant at 100.



**Figure S2.** Transfection efficacies of G8/LPEI/DNA polyplex and the polyplex made of the mix of G8 PAMAM dendrimer and LPEI followed by incubation with DNA.



**Figure S3.** The UV-vis spectra of LPEI, FITC and LPEI-FITC conjugate (a) and G8 PAMAM dendrimer, RBITC and G8-RBITC conjugate (b).