Electronic Supplementary Information (ESI)

Fabrication of cross-linked fluorescent polymer nanoparticles and their cell imaging applications

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Fig. S1 (A) Intensity of the aggregate emission vs. logarithm of the concentration of PhE-GM-PEI FPNs ($\lambda_{ex}$ = 488 nm and $\lambda_{em}$ = 580 nm); (B) Hydrodynamic size changes of PhE-GM-PEI FPNs at different concentrations incubated in PBS at 25 °C; (C) Hydrodynamic size changes of PhE-GM-PEI FPNs incubated in PBS (1 mg mL$^{-1}$) at 25 °C for 6 hours; (D) Hydrodynamic size changes of PhE-GM-PEI FPNs incubated in PBS of different pH (1 mg mL$^{-1}$) at 25 °C.
**Fig. S2** The fluorescence time traces of PhE-GM-PEI FPNs monitored at 580 nm ($\lambda_{ex} = 488$ nm) for more than 20 min, suggesting the durable photostability of the PhE-GM-PEI FPNs.

**Fig. S3** GPC chart of PhE-GM-PEI (eluent: DMF).