

Supporting Information

Functional star polymers as reagents for efficient nucleic acids delivery into HT-1080 cells

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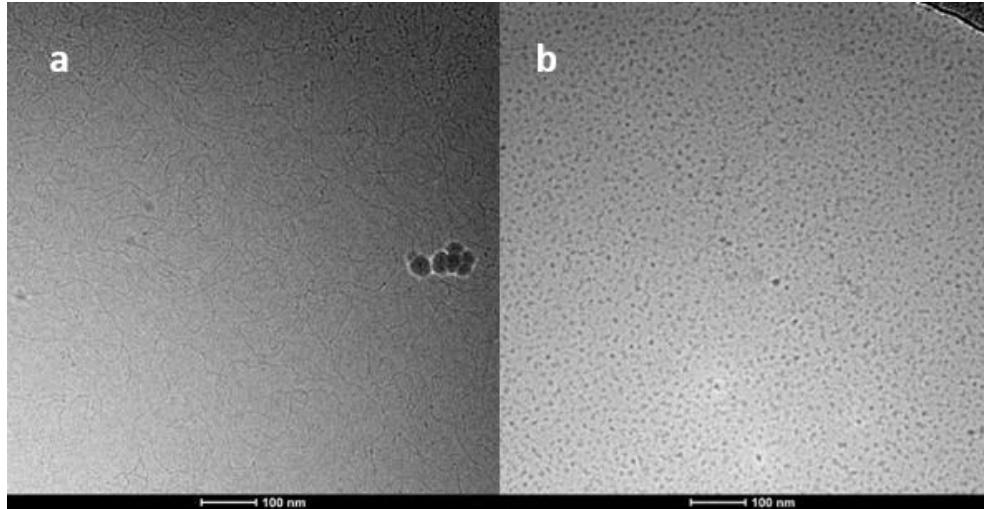


Fig. S1. Cryogenic transmission electron microscopy images obtained from PBS solutions of a) pDNA, b) STAR1.

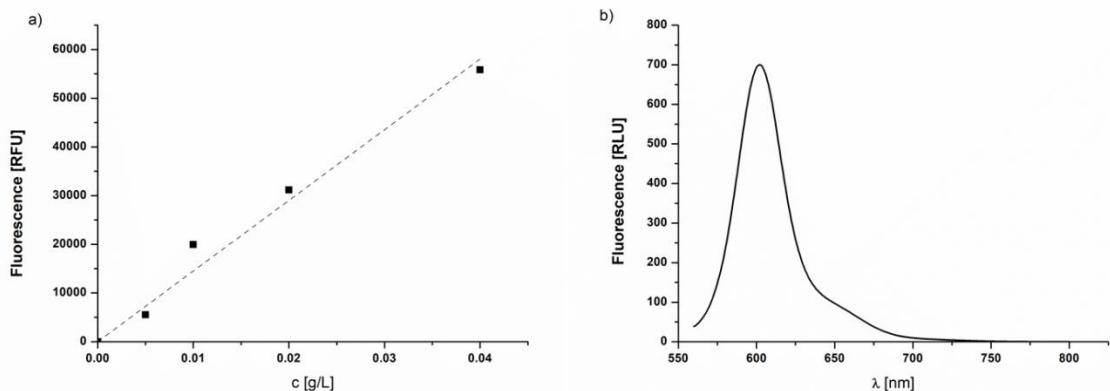


Fig. S2. a) the dependence of BODIPY-COOH fluorescence on the concentration. b) fluorescence spectrum of BODIPY-COOH (MeOH, $c=0.01$ g/L) measured at an excitation wavelength of 550 nm

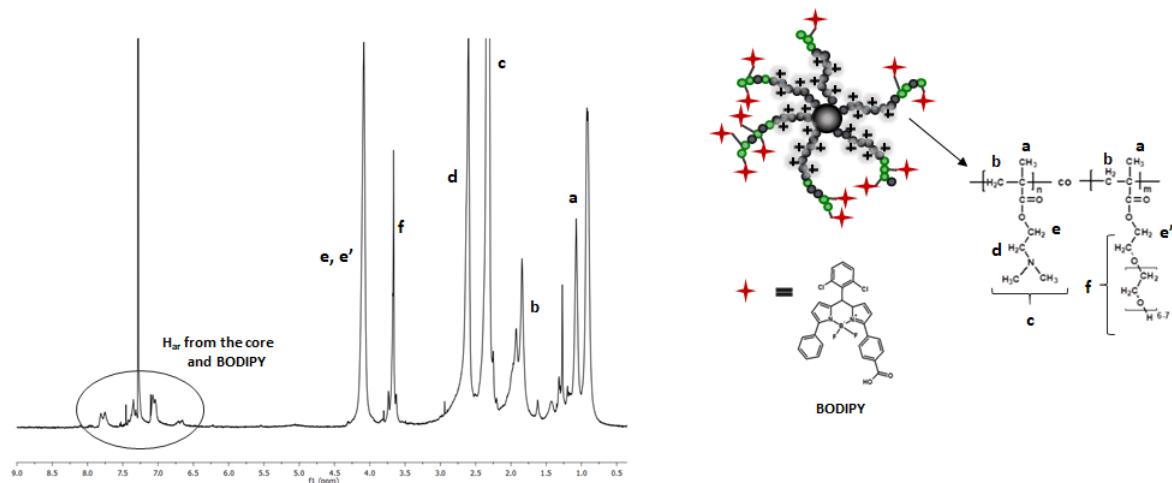


Fig. S3. ^1H NMR spectrum (CDCl_3 , 600 MHz) of STAR3-BODIPY.

^1H NMR (600 MHz, CDCl_3) δ_{ppm} : 0.75–1.51 ($\text{CH}_3\text{C}-$) (a), 1.70–2.10 ($-\text{CH}_2\text{C}-$) (b) in the methacrylate backbone, 2.17–2.47 ($-\text{N-CH}_3$) (c), 2.52–2.88 ($-\text{OCH}_2\text{CH}_2\text{N-}$) (d), 3.94–4.27 ($-\text{OCH}_2\text{CH}_2\text{N-}$) (e) and ($-\text{CO-OCH}_2\text{CH}_2\text{O-}$) (e'), 3.56–3.77 ($-\text{OCH}_2\text{CH}_2\text{O-}$) (f), $\delta = 6.60$ –8.10 ppm overlapping aromatic protons of poly(arylene oxindole) and BODIPY.