Supporting Information

PEG-Based Biocompatible Block Cationer with High-Buffering Capacity for the Construction of Polyplex Micelles Showing Efficient Gene Transfer Toward Primary Cells

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Figure S1. $^{13}$C-NMR spectrum of PEG-b-P[Asp(DET)] (solvent: D$_2$O, temperature: 25°C). The polymer is in a salt form.
Figure S2. GPC chromatogram of PEG-b-P[Asp(DET)] (column: Superdex TM 75HR 10/30, eluent: 10mM Tris-HCl buffer + 150 mM NaCl (pH 7.4), flow rate: 0.5 mL/min, detector: RI, ambient temperature)
Figure S3. *In vitro* transfection of the luciferase gene to 293T cells by polyplex micelles from PEG-\(b\)-polyaspartamides carrying various polyamine components in the side chain (PEG-\(b\)-P[Asp(X)] \(x\) with varying N/P ratios. The cells were incubated with each polyplex in the medium containing 10% serum for 24 h, followed by an additional 24-h incubation without the polyplex.