Supporting Information

Synthesis of Non-natural Sequence-Encoded Polymers Using Phosphoramidite Chemistry

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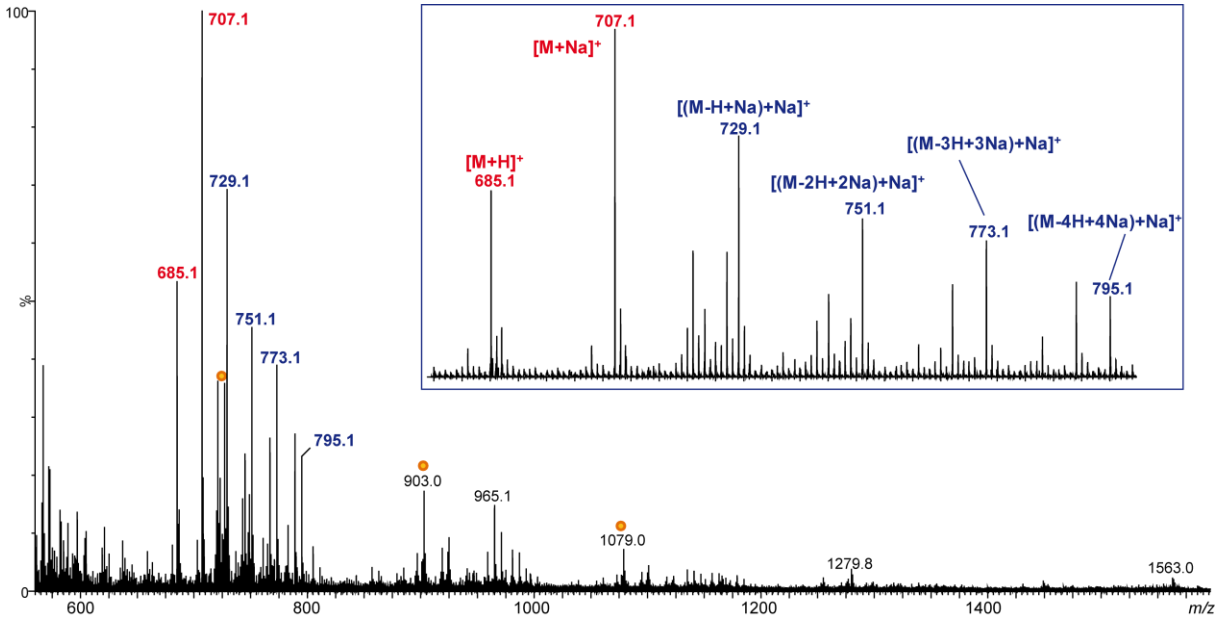

Figure S1. MALDI-MS spectrum recorded in positive ionization mode for homopolymer **H1**. The orange circles indicate peaks that are due to matrix aggregates.

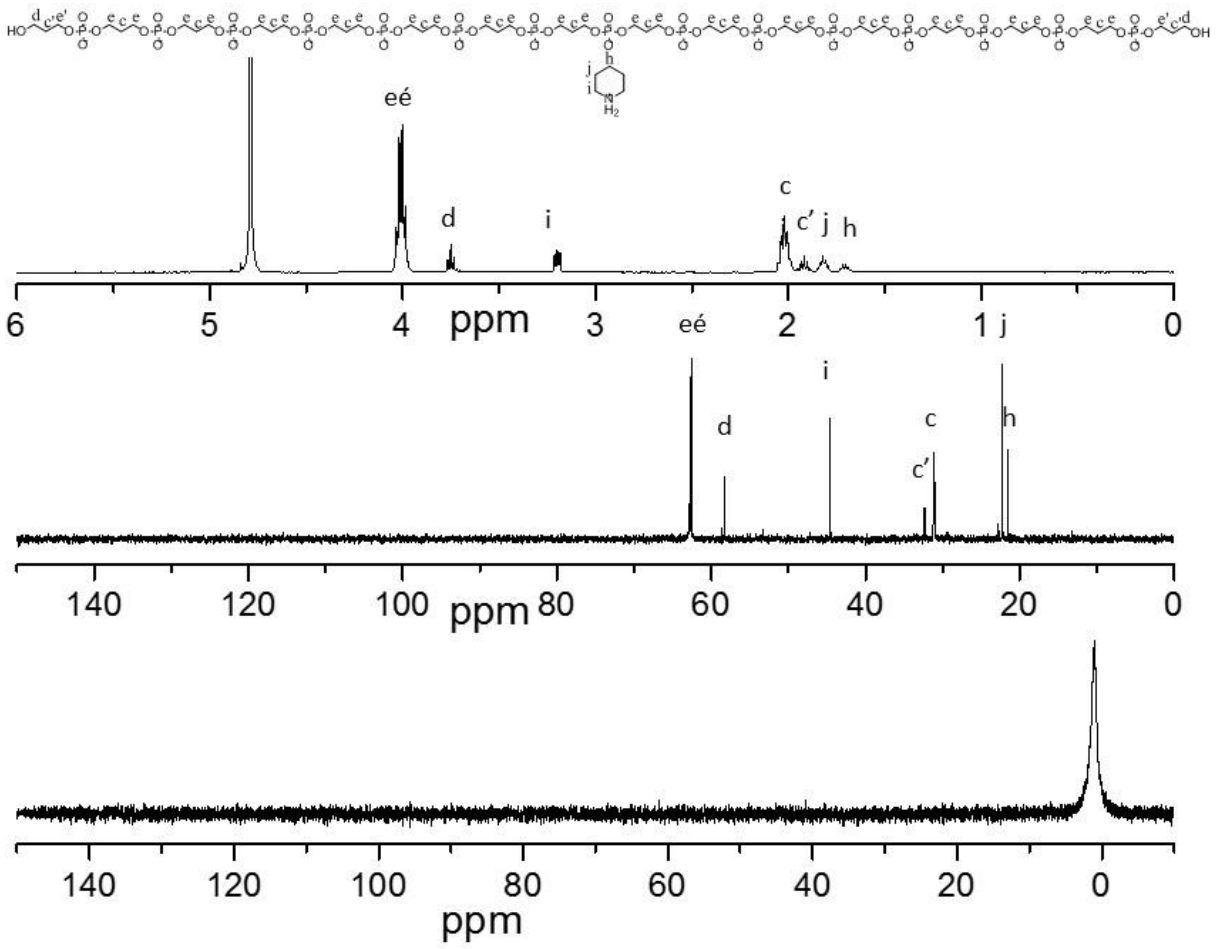

Figure S2. ^{1}H, ^{13}C and ^{31}P NMR spectra recorded in D_2O for homopolymer **H3**.

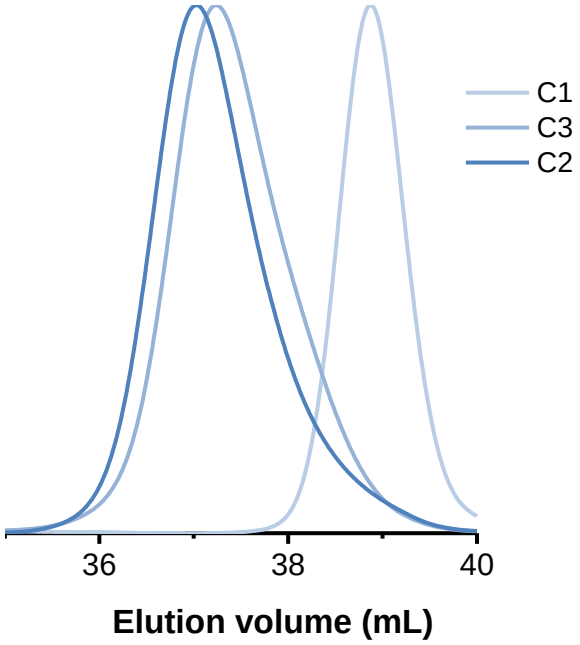

Figure S3. SEC chromatograms recorded in ACN/H_2O for copolymers **C1**, **C2** and **C3**.

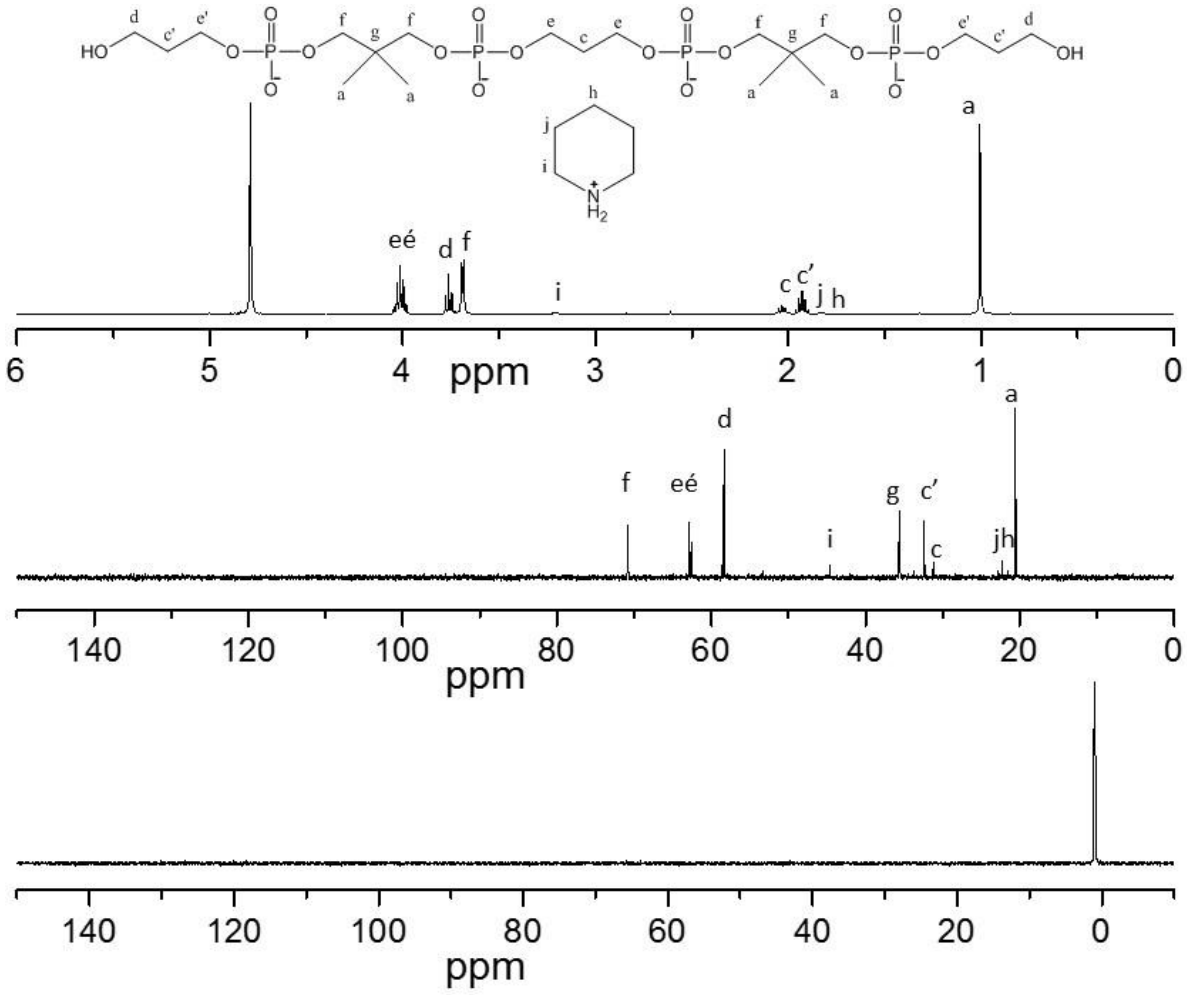

Figure S4. ^{1}H, ^{13}C and ^{31}P NMR spectra recorded in D_2O for **C1**.

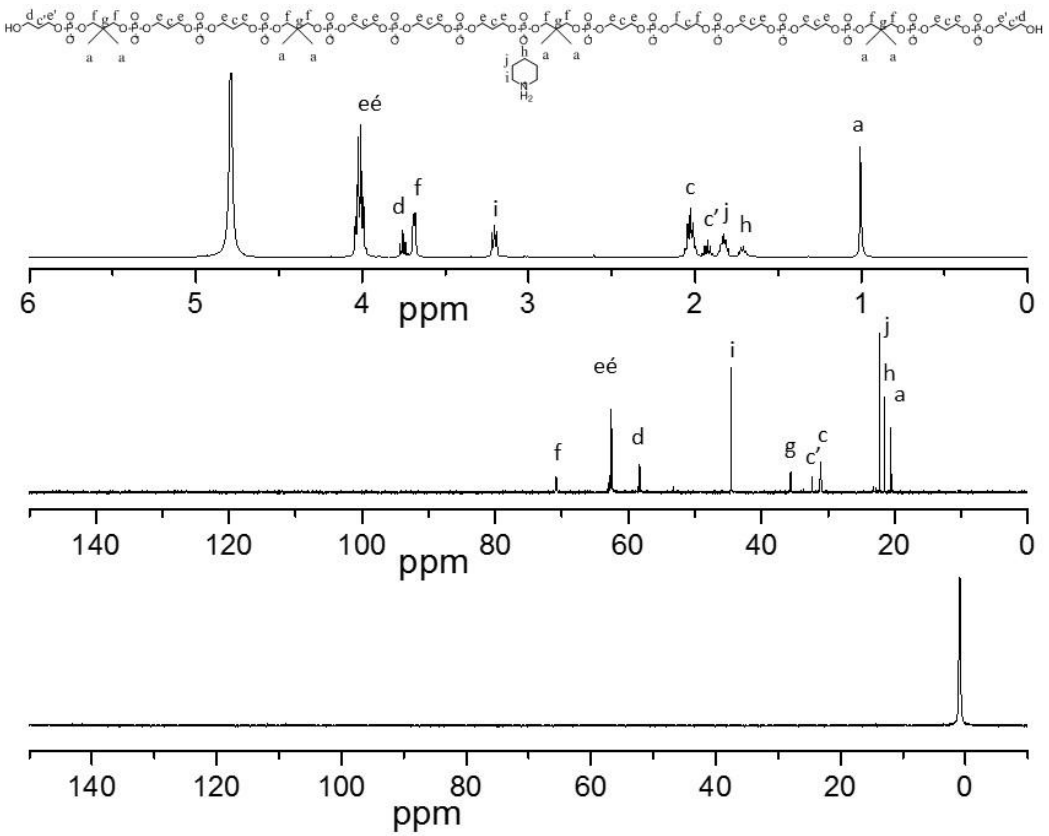

Figure S5. ^{1}H, ^{13}C and ^{31}P NMR spectra recorded in D_2O for **C3**.

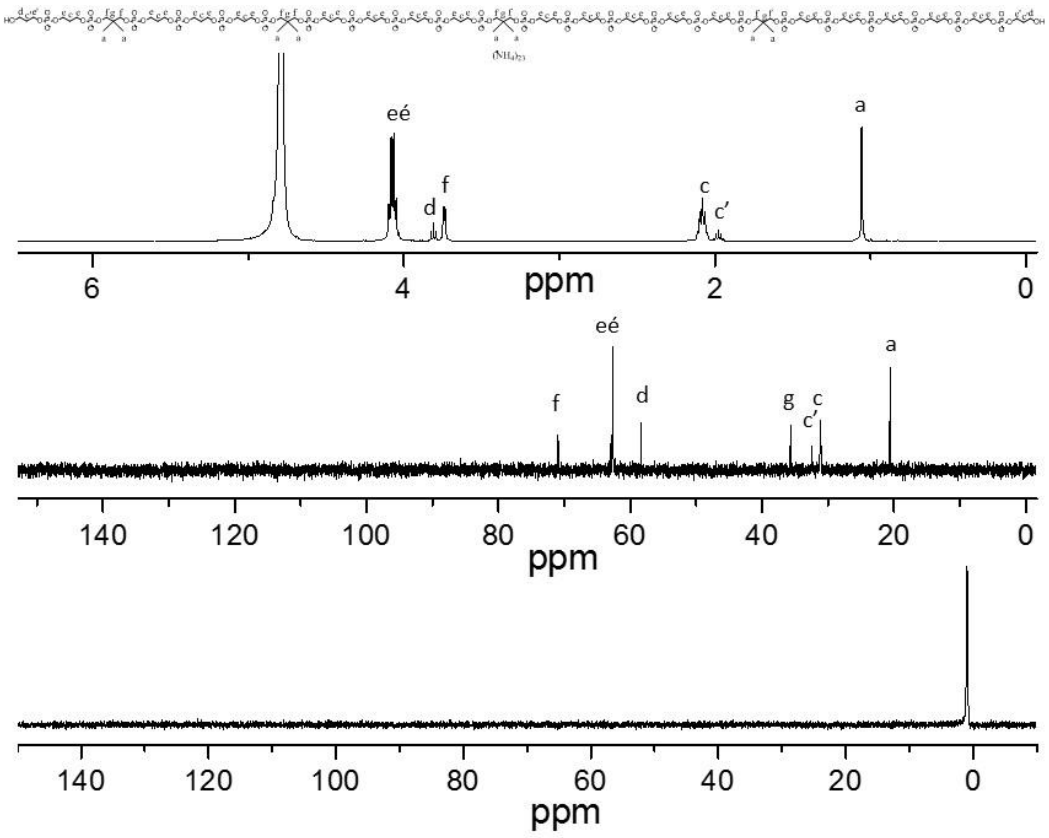

Figure S6. ^{1}H, ^{13}C and ^{31}P NMR spectra recorded in D_2O for **C4** after piperidinium counterion exchange with ammonium.

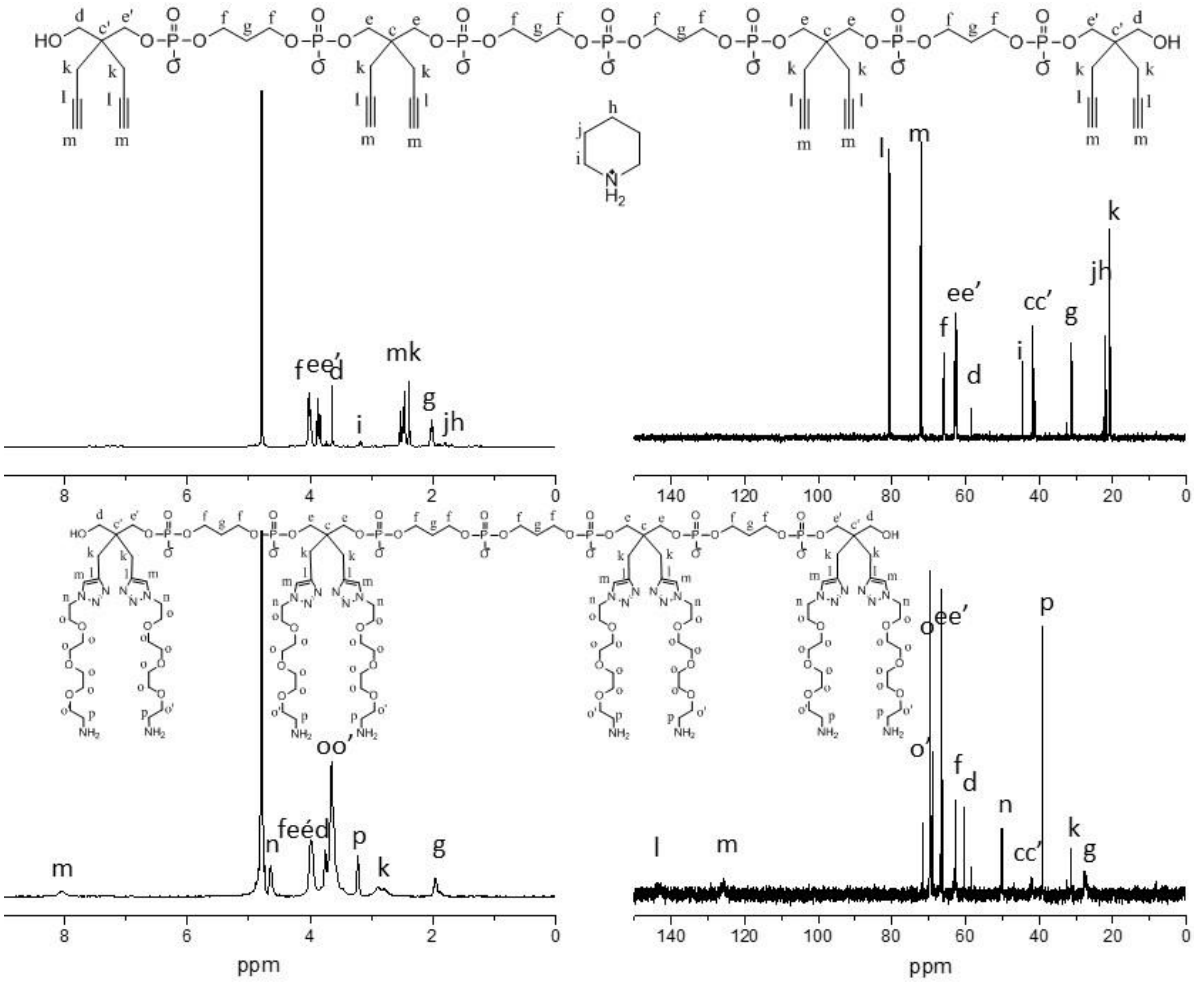

Figure S7. ^{1}H and ^{13}C NMR spectra recorded in D_2O for **C1'** before and after CuAAC PEGylation.