Electronic Supplementary Information

Cell penetrating peptide-based polyplexes shelled with polysaccharide to improve stability and gene transfection†

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Figure S1. $^1$H NMR spectrum of allyl-α-CD.

Figure S2. The consumption of thiol group in the system.
**Figure S3** FT-IR (a) and UV-vis (b) spectra of Dextran and Dex-CHO.

**Figure S4** $^1$H NMR spectrum of Az-I-Dex.
**Figure S5** The standard curve of 4-aminoazobenzene obtained by UV-vis spectra.

**Figure S6** The Size change of various polyplexes at C/P ratio of 10 in the presence of the culture media with 10% or 20% FBS.