

Figure S1 - **Schematic representation of the structure of plasmids.**

(A) pAAV2.1CMVeGFP3 used for expression of GFP (B) pCMVIGFBP-3 used to encode IGFBP-3 peptide and (C) pCMVIGFBP-5 used to encode IGFBP-5 peptide. AmpR and KanR are genes for resistance to ampicillin and kanamycin, respectively.

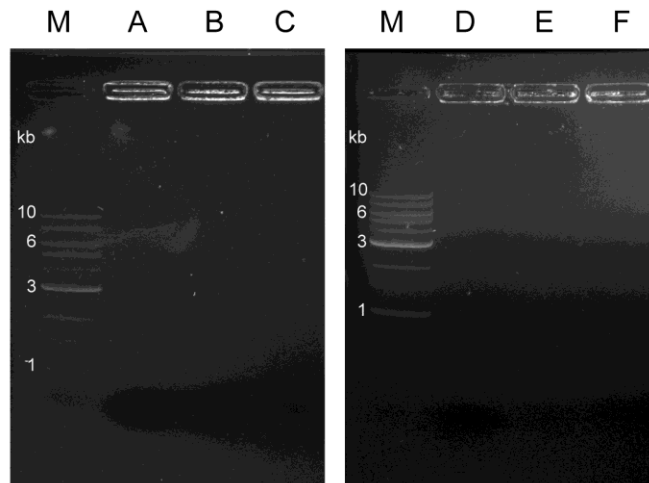


Figure S2 –Complexation assay to evaluate the polyplexes ability to complex DNA.

Representative images of the evaluation of DNA complexation by polyplexes by agarose gel electrophoresis and visualized by GreenSafe Premium. Polyplexes display efficient DNA complexation, evidenced by the absence of free DNA migration on the agarose gel. M – 1kb DNA Marker; A – CS3 (T) 100 μ g; B – CS5 (T) 100 μ g; C – 15:1CS3 (T); D – 15:1CS3 (S); E – 15:1CS5 (T); F – 15:1CS5 (S).

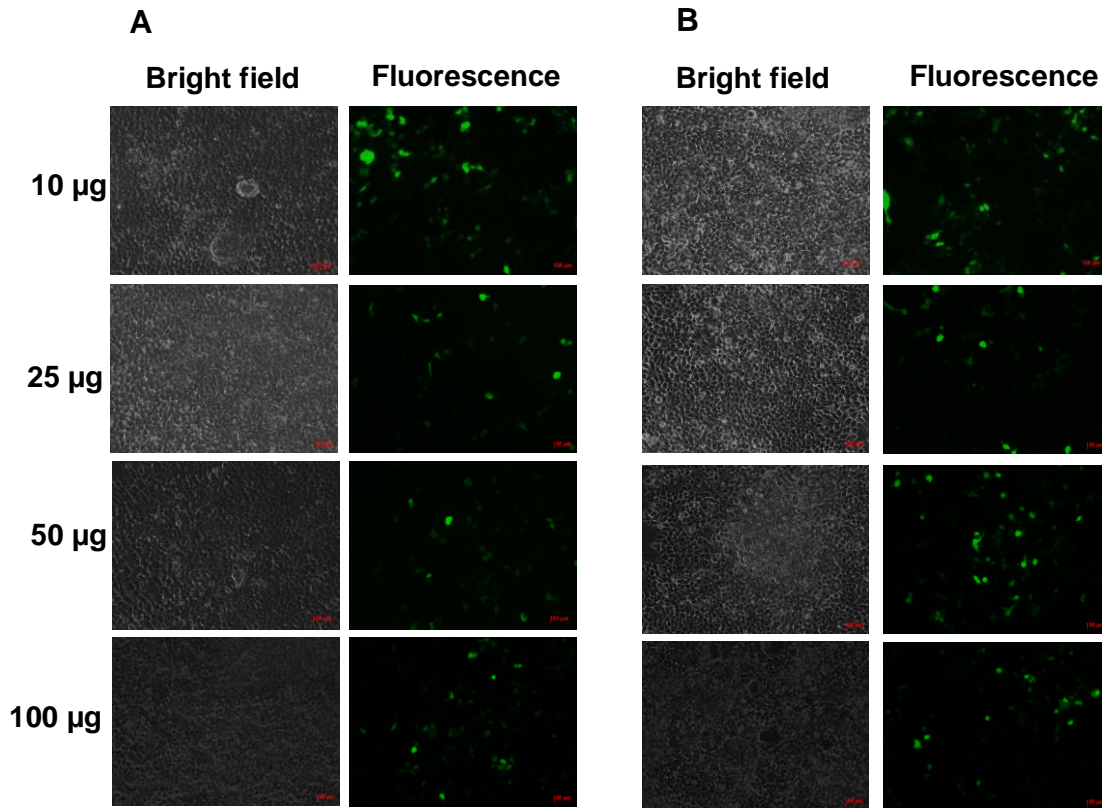


Figure S3 - **Representative images of fluorescence microscopy of transfected cells by CSNa₂SO₄ polyplexes.**

Transfection of CSNa₂SO₄ polyplexes with several concentrations of IGFBP-3, after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μm .

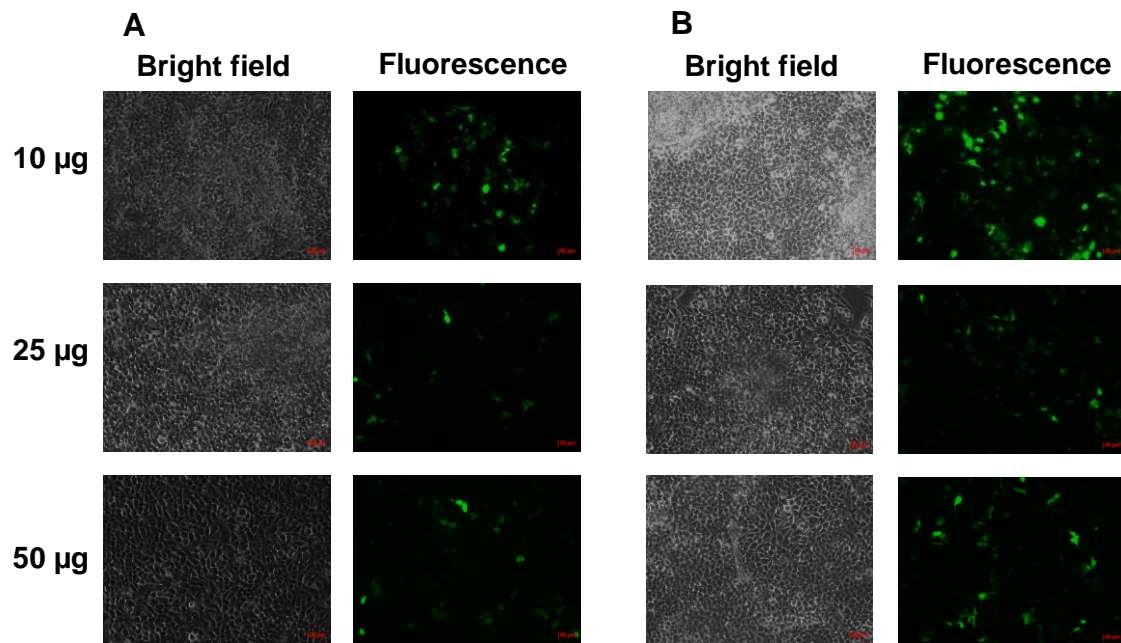


Figure S4 - **Representative images of fluorescence microscopy of transfected cells by CSNa₂SO₄5 polyplexes.**

Transfection of CSNa₂SO₄5 polyplexes with several concentrations of IGFBP-5 peptides, after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μ m.

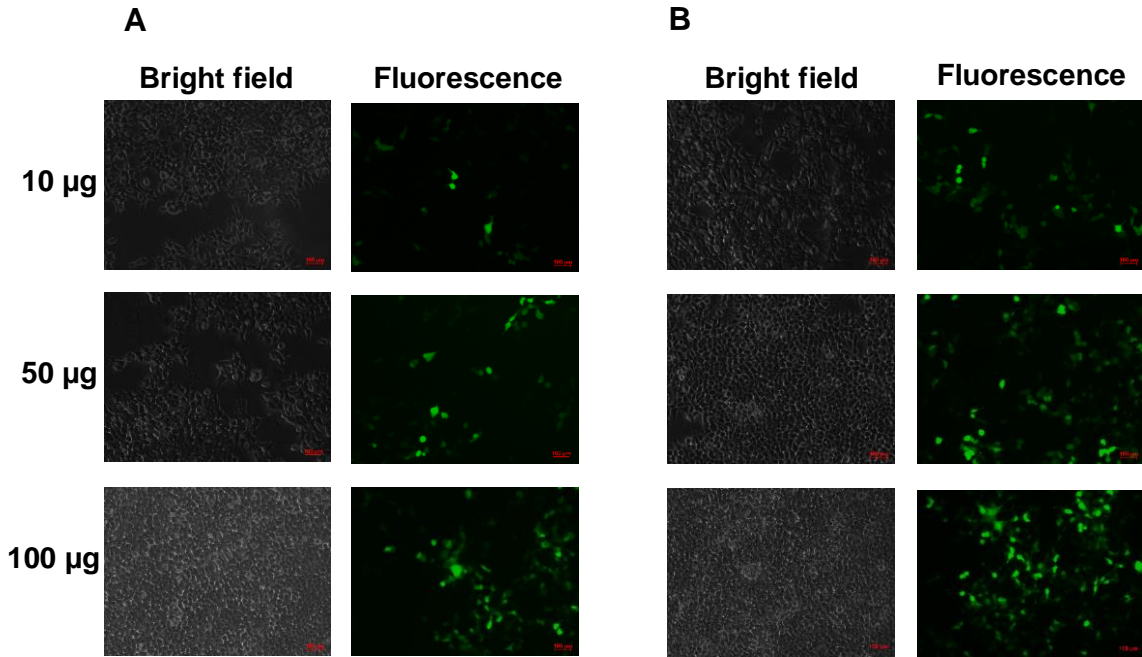


Figure S5 - **Representative images of fluorescence microscopy of transfected cells by CS3 (S) polyplexes.**

Transfection of CS3 (S) polyplexes with several concentrations of IGFBP-3, after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μ m.

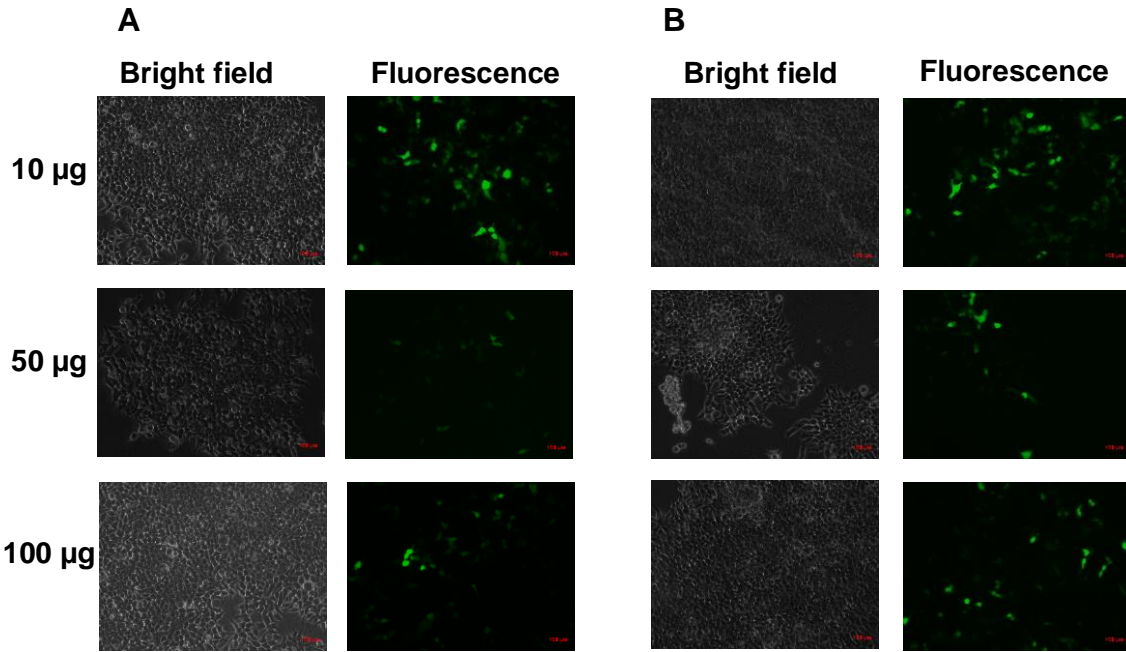


Figure S6 - **Representative images of fluorescence microscopy of transfected cells by CS5 (S) polyplexes.**

Transfection of CS5 (S) polyplexes with several concentrations of IGFBP-5, after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μ m.

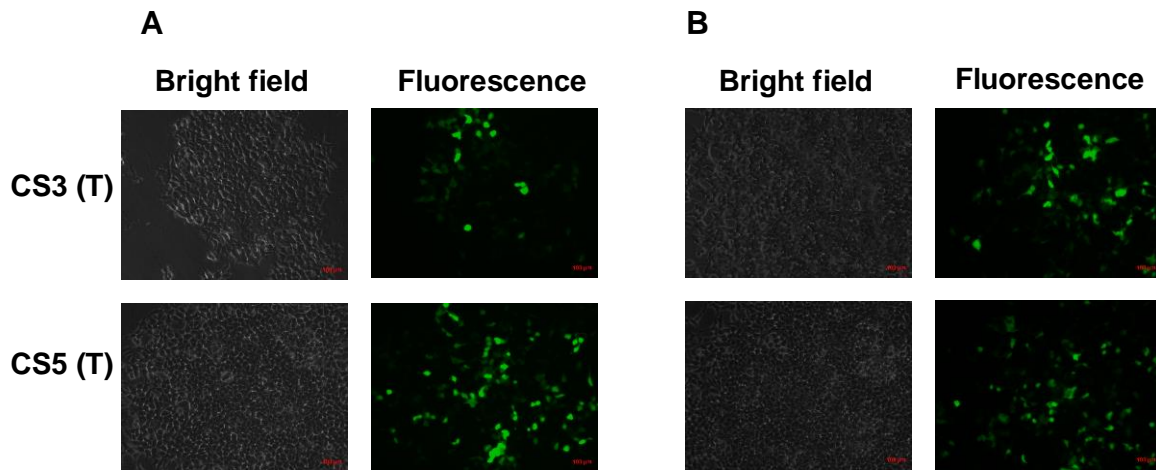


Figure S7 - Representative images of fluorescence microscopy of transfected cells by CS3 and CS5, (T), polyplexes.

Transfection of CS3 and CS5, (T) with 100 μg of IGFBP-3 or IGFBP-5, respectively. Cells were visualized after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μm .

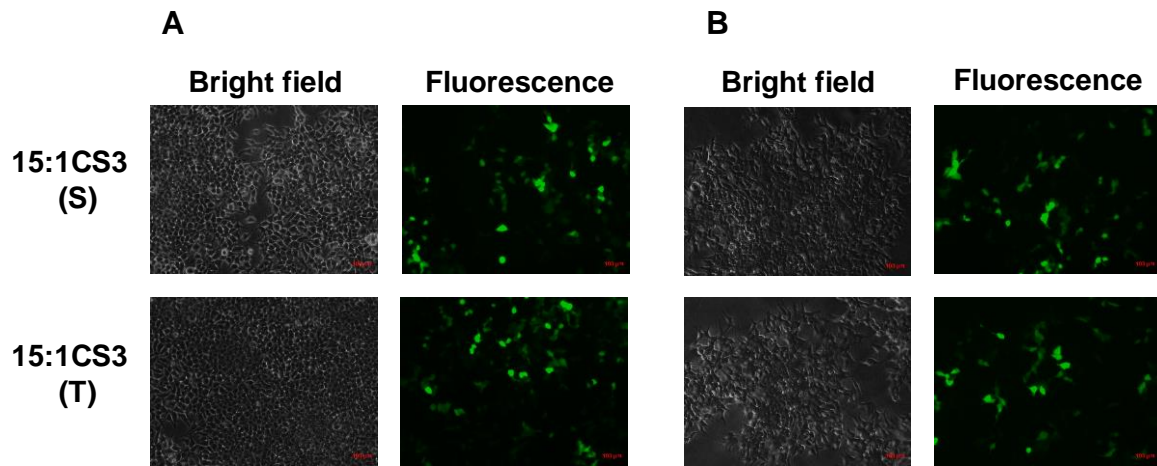


Figure S8 - Representative images of fluorescence microscopy of transfected cells by 15:1CS3 (S) and 15:1CS3 (T) polyplexes.

Transfection of 15:1CS3 (S) and 15:1CS3 (T) polyplexes with 100 μ g of IGFBP-3, after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μ m.

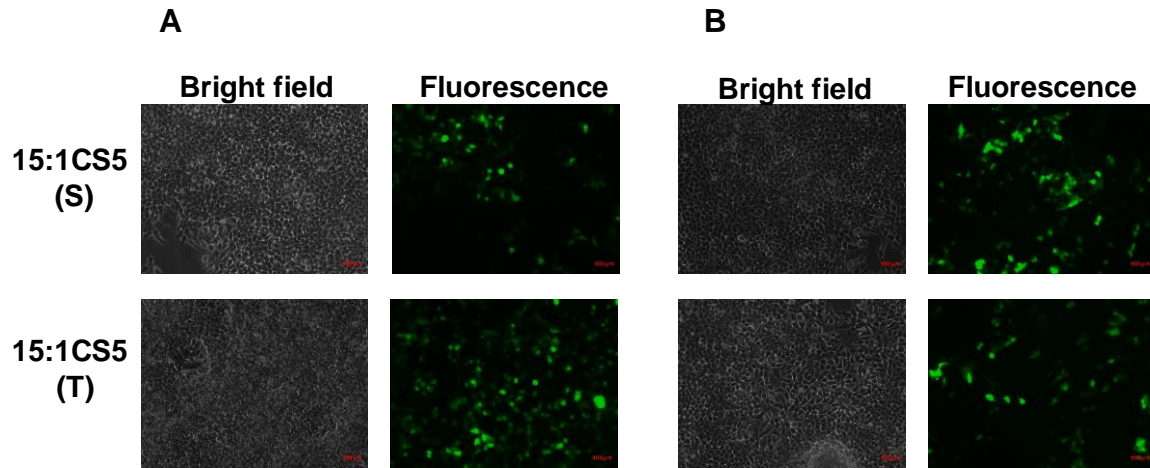


Figure S9 - **Representative images of fluorescence microscopy of transfected cells by 15:1CS5 (S) and 15:1CS5 (T) polyplexes.** Transfection of 15:1CS5 (S) and 15:1CS5 (T) polyplexes with 100 μ g of IGFBP-5, after 48h (A) and 72h (B). Amplification of 100X and scale bar represents 100 μ m.

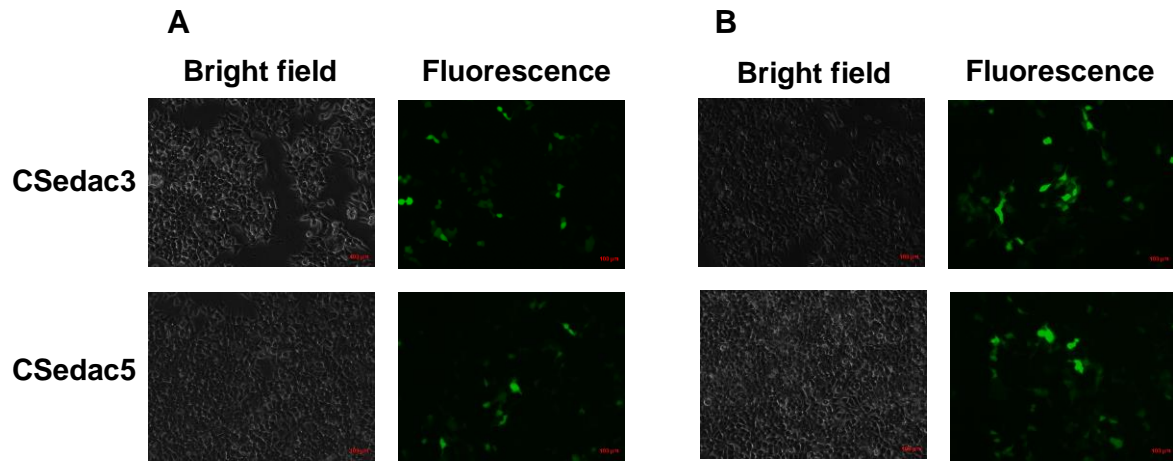


Figure S10 - Representative images of fluorescence microscopy of transfected cells by CSedac3 and CSedac5 polyplexes.

Transfection of CSedac3 and CSedac5 polyplexes with 100 μ g of IGFBP-3 or -5, respectively. Cells were visualized after 48h and 72h, left and right panel, respectively. Amplification of 100X and scale bar represents 100 μ m.