

SUPPLEMENTARY DATA FOR

Cationic lipopolymeric nanoplexes containing the CRISPR/Cas9 ribonucleoprotein for genome surgery

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Table S1. Characterization of intermediate polymers (3), (4) and final polymer (8).

Sr. No	Polymer	Monomer Units	Molecular Weight (Da) ^a	Elemental composition (%) ^b
1.	mPEG-b-p(CB) (3)	MBC units-70	21,240	
2.	mPEG-b-(CB-{g-COOH}) (4)	MCC units-65 MBC -5	16,650	
3.	mPEG-b-(CB-{g-Cationic chain; g-Chol; g- Morph}) (8)	Cationic chain units-18 Chol units-22 Morph units-25 MBC- 5	24,553	Carbon - 44.19 Hydrogen - 6.72 Nitrogen - 7.07

^aAverage molecular weight determined by ¹H NMR^bElemental composition determined by Elemental Analyzer**Table S2.** Primers for sgRNA synthesis

SgRNA_1. mGFP_FP	5'TAATACGACTCACTATAGAAGTTCGAGGGCGATACCCGTTTT AGAGCTAGAA 3'
SgRNA_2 mGFP_FP	5'TAATACGACTCACTATAGGTGAACCGCACGAGCTGAAGTTTT AGAGCTAGAA3'
SgRNA_BPR_FP	5'TAATACGACTCACTATAGCAGGAGGATGGCGTGAACCGTTTT AGAGCTAGAA3'
SgRNA_Telo_FP	5'TAATACGACTCACTATAGCCAGGGCCAGGGCCAGGGCCGTTT TAGAGCTAGAA3'
Universal_RP	5'AAAAGCACCGACTCGGTGCCACTTTTTCAAGTTGATAACGGA CTAGCCTTATTTAACTTGCTATTTCTAGCTCTAAAAC-3'

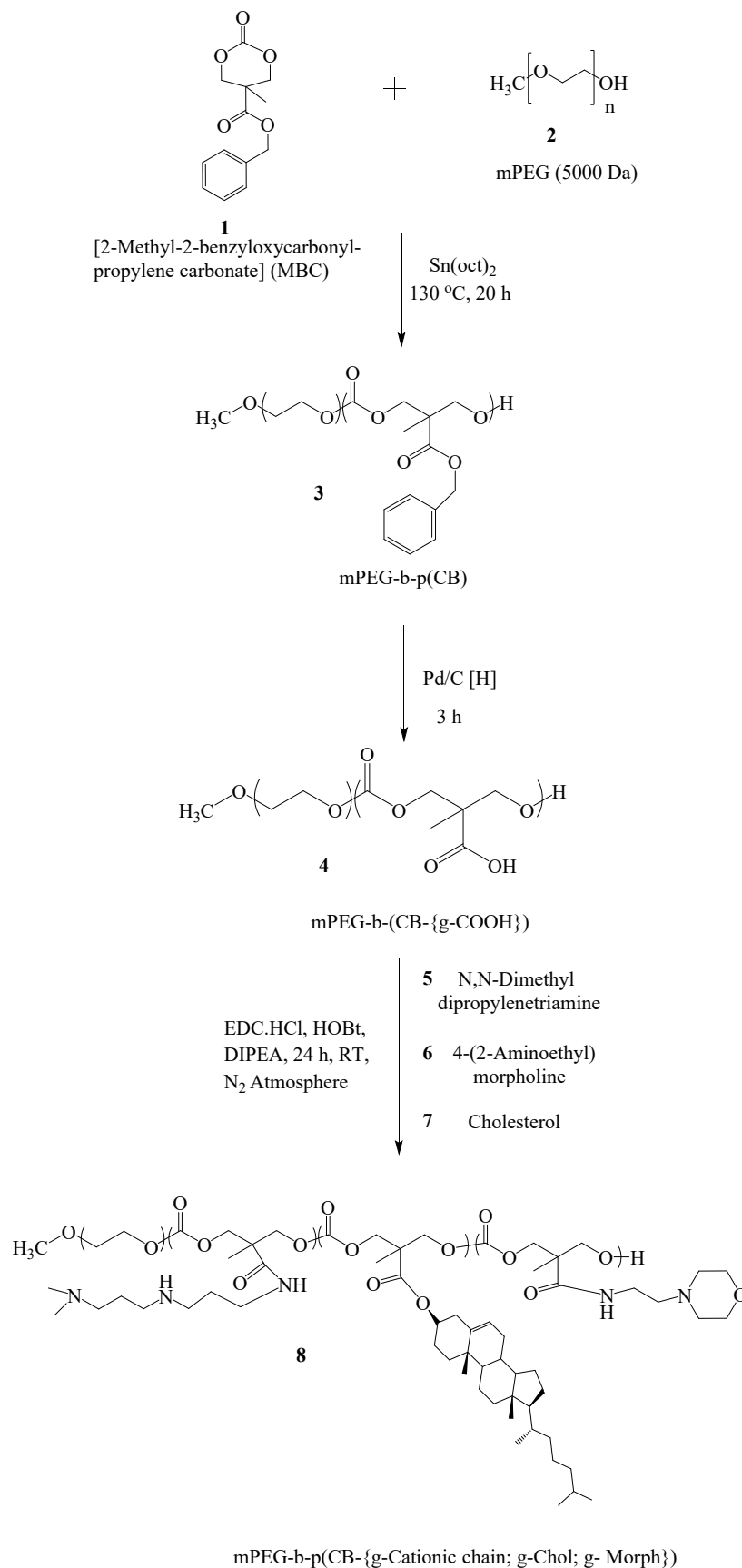


Figure S1. Synthesis scheme of amphiphilic cationic lipopolymer, mPEG-b-p(CB-{g-Cationic chain; g-Chol; g-Morph}) (**8**)

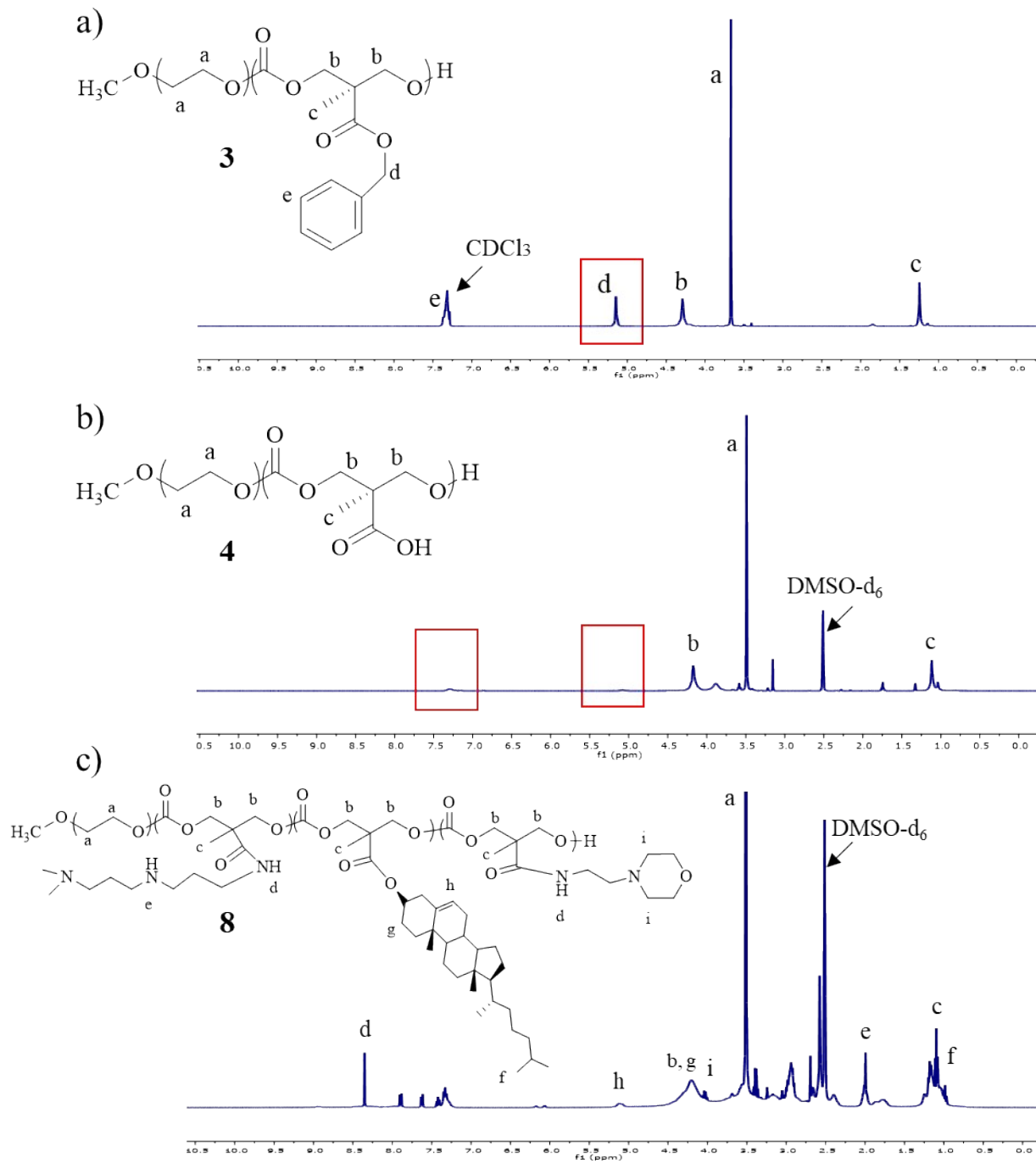


Figure S2. ^1H NMR of a) mPEG-b-p(CB) (**3**), b) mPEG-b-(CB-{g-COOH}) (**4**) and c) mPEG-b-p(CB-{g-Cationic chain; g-Chol; g-Morph}) (**8**)