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Colloidal mechanical metamaterials

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Appendix

ssDNA	Sequence
ssBB	5'-TCG-TAA-GGC-AGG-GCT-CTC-TAG-ACA-GGG-CTC-TCT-GAA-TGT-GAC-TGT-GCG-AAG-GTG-ACT-GTG-CGA-AGG-GTA-GCG-ATT-TT-3'
ssA	Double Stearyl-HEG-5'-TT-TAT-CGC-TAC-CCT-TCG-CAC-AGT-CAC-CTT-CGC-ACA-GTC-ACA-TTC-AGA-GAG-CCC-TGT-CTA-GAG-AGC-CCT-GCC-TTA-CGA- <i>CCT-ACT-TCT-AC</i> -3'-6FAM
ssA'	Double Stearyl-HEG-5'-TT-TAT-CGC-TAC-CCT-TCG-CAC-AGT-CAC-CTT-CGC-ACA-GTC-ACA-TTC-AGA-GAG-CCC-TGT-CTA-GAG-AGC-CCT-GCC-TTA-CGA- <i>GTA-GAA-GTA-GG</i> -3'-Cy3
ssB	Double Stearyl-HEG-5'-TT-TAT-CGC-TAC-CCT-TCG-CAC-AGT-CAC-CTT-CGC-ACA-GTC-ACA-TTC-AGA-GAG-CCC-TGT-CTA-GAG-AGC-CCT-GCC-TTA-CGA- <i>TAG-TTG-TCA-TT</i> -3'-6FAM
ssB'	Double Stearyl-HEG-5'-TT-TAT-CGC-TAC-CCT-TCG-CAC-AGT-CAC-CTT-CGC-ACA-GTC-ACA-TTC-AGA-GAG-CCC-TGT-CTA-GAG-AGC-CCT-GCC-TTA-CGA- <i>AAT-GAC-AAC-TA</i> -3'-Cy3
ssl	Double Stearyl-HEG-5'-TT-TAT-CGC-TAC-CCT-TCG-CAC-AGT-CAA-TCT-AGA-GAG-CCC-TGC-CTT-ACG-A-3'
ssl'	5'-TCG-TAA-GGC-AGG-GCT-CTC-TAG-ATT-GAC-TGT-GCG-AAG-GGT-AGC-GAT-TTT-3'

Table A1: Overview of single-stranded (ss) DNA strand sequences. ssBB and either ssA, ssA', ssB, or ssB' are hybridized to form double-stranded DNA with a single-stranded sticky end (indicated in italic). The sticky ends of ssA and ssA' as well as of ssB and ssB' are complementary and are used for binding colloidal particles. ssl and ssl' are hybridized to form the inert double-stranded DNA strands for steric stabilization. ssDNA strands are modified with dyes 6-Carboxyfluorescein (6FAM) and Cyanine3 (Cy3) at their 3' ends as listed and flexible hexaethylene glycol (HEG) spacers connected to a double stearyl group that inserts into the lipid bilayer thereby providing anchoring for the DNA linkers and inert strands.