#### **Supplementary information for:**

# Preparation of one- to four-branch silver nanostructures of various sizes by metallization of hybrid DNA-protein assemblies

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# 1. Sequences of biotinylated DNAs

#### Sequence of B-DNA206

Biotin-TTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGT ACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGT ACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGG

### Sequence of B-DNA541

#### Sequence of B-DNA978

Biotin-TTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGT ACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGT ACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTG CACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGC AAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTAG TGAACCGTCAGATCCGCTAGCGCTACCGGACTCAGATCTCGAGATGACGTACTTC AACACGGTCTCGCTCGTCTGCAAGGTGTGGTACGAGATCGAGAGGCTGAGCCGCC GTTCCCCAACGTGCGGGCGCTCACGGTGAAGGGGAAGCCCCACTTCGCCGACTTC AACCTCGTGCCCCCGACTGGGGGGGGGGCGGGGGGGGCGTGGATCGAGGCGGCC GCGAGGGGATGCCACGGCCTGGAGGAGCTCAGGATGAAGCGGATGGTGGTGTCC GACGAGAGCCTCGAGCTGCTGGCTCGCTCGTTCCCGCGGTTCAGGGCTCTTGTTCT TATCAGCTGCGAGGGGTTCAGCACTGACGGGGCTAGCCGCCGTCGCGAGCCATTGC AAGCTTCTGAGGGAGTTGGATTTGCAGGAAAATGAAGTGGAGGATCGAGGGCCT AGGTGGCTTTCCTGCTTCCCTGATTCCTGCACATCACTTGTCTCATTGA

### 2. Supplementary Figure



**Figure S1. Effect of salt on the distribution of DNA nanostar templates.** B-DNA541 (49 nM) was mixed with streptavidin (12.3 nM) in absence (red bars) and in presence (green bars) of 0.2 M NaCl. For each sample, the mixture was diluted 100-fold, deposited on mica surface and analyzed by AFM. The observed structures were categorized into 5 types: free DNA, 1-, 2-, 3-, or 4-branch conjugates. The bars shows the fraction of DNA incorporated in each type of structures.