

Supplementary Information 2

DNA nanostructures from double-C-shaped motifs with controlled twist and curvature

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Strands of extended ribbon from motifs of 15-nt overlapping domain (R1)

seq_ID	Sequence
1	TTTAAGATTTGAACACCCTCTCAATCTGCTCGGATTAAACATA
2	TTTGGGTGTTCAAATCTTCCGAGCAGATTGAGAGATTCGGTAG
3	GGTAATCACTTCGATTCAGCTATCTCCATCCTCACGTATACTACCGAATC
4	GGACCATGCCAGATAGCTGAATCGATATACGTGAGGATGGTATGTTTAAT
5	GGCATGGTCTCTTCTAATCGGAGCCCTGTTTCGCAGTAACGGTCTGCAAC
6	AGTGATTACCGCTCCGATTAGAAGAGTTACTGCGAACAGGATCGGGCTTG
7	CTGTGATAGAGTGCTCTTTAGCTCAACGTGGGTCAGCCCACAAGCCCGAT
8	GACATAGACCTGAGCTAAAGAGCACTGGGCTGACCCACGTGTTGCAGACC
9	GGTCTATGTCGCACTATCCCAGAGCGGCCGAAGCAATATGCCTAACCTTCT
10	TCTATCACAGGCTCTGGGATAGTGCCATATGCTTCGGCCATCGGCAATT
11	TTTAGCAGGTTTAGATTATCGAATTTGCTACACAATTGCCGAT
12	TTTTAATCTAAACCTGCTGTGTAGCAAATTCGAAGAAGTTAGG

Strands of extended ribbon from motifs of 16-nt overlapping domain (R2)

seq_ID	Sequence
1	TTTGCTCCAATGACCCAAAGGCAAGCGGTGCGTCGTAGGCGTCT
2	TTTTTTGGGTCAATGGAGCGACGCACGCGCTTGCCCTCGAAAGCT
3	ATTGAGTACCTTTATGGCTCGCTTCTGTTGCGCGAAATCAGGAGCTTTCGAG
4	CATTAAAGCAAGAAGCGAGCCATAAACCTGATTTTCGCGCAACAGACGCCTAC
5	TGCTTTAATGATTAAGATGGATACTTCTAACTGCTTAACTCTTCGGTACATG
6	GGTACTCAATAAGTATCCATCTTAATAGAGTTAAGCAGTTAGAGCTGTGTCT
7	TTAAACGGACTCCTCGGAGACATACTGACTTTCATGGTAGCAGACACAGCT
8	CACAAC TAGGGTATGTCTCCGAGGAGGTACCATGAAAGTCACATGTACCGA
9	CCTAGTTGTGCCGAGAGGACACGCCGATAACAACCTCAAATCTTGTTTCT
10	GTCCGTTTAAACGGCGTGTCTCTCGGTTTGAGGGTTGTTATGCCGGTTAGTC
11	TTTTGGTTTCGGACATGCCAAATATAAGAAAGAGACGACTAACCGG
12	TTTTGGCATGTCCGAACCAGTCTCTTTCTTATATTAGAAACAAGA

Strands of extended ribbon from motifs of 17-nt overlapping domain (R3)

seq_ID	Sequence
1	TTTTGCTTGGATCACGAAGCGATGCTTTCAAGCCCTGTAAAGGACGA
2	TTTGCTTCGTGATCCAAGCACAGGGCTTGAAAGCATCGGAATGAAGC
3	TCTTCAAAGTAGTAAACTTGTCATTTTCTACAGCTAGCTCGCTGGCTTCATTCC
4	TCCCTCAAGGAAATAGACAAGTTACTCAGCGACTAGCTGTAGATCGTCCTTTA
5	CCTTGAGGGACTCCCGCGTGCAGACTTTCGGCCAAATACACGTATCGAACCCA
6	ACTTTGAAGAACTGTGCGACGCGGGAGACGTGATTTGGCCGAAAGTGAACCTC
7	TGGTTCATGGAATCCAGCCACTATTACAAAGCTACTGTTTCAGAGAGTTCCACT
8	CTACCCATTCTAATAGTGGCTGGATTTCTGAACAGTAGCTTTGTGGGTTTCGAT
8	GAATGGGTAGCGCCCGCATATCCGCACCATCGTATATGGTACTGATATTGACG
10	CCATGAACCATGCGGATATGCCGGGCGAGTACCATATACGATGGATACCCTTCC
11	TTTGGTGTCAAACATTTACGGACCGGTGTTGACCACGGAAGGGTAT

12	TTTCGTAAATGTTTGACACCGTGGTCAACACCCGGTCCGTCAATATC
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Strands of extended ribbon from motifs of 18-nt overlapping domain (R4)

seq_ID	Sequence
1	TTTCGCCGAACGTGTCACTCACAAGCGCCTCGGGCCAGTACACCGGGTT
2	TTTTGAGTGACACGTTTCGGCGACTGGCCCGAGGCGCTTGAGCTATCATA
3	AAACCTGAATTTACCACAAAGTCAGTTAGGAAAGGTGTGGAAGGATATGATAGCT
4	ATTTGCACTTAACTGACTTTGTGGTAAATCCTTCCACACCTTTCCTAACCCGGTGT
5	AAGTGCAAATCTGTAGGATGACCTGTACTGAGTCCGTGGCCTTGGAGGCATCTAAC
6	TTCAGGGTTTGTACAGGTCATCCTACAGTCCAAGGCCACGGACTCAGGTGGAGCTT
7	TACTAAGCAGAACTGTTTCATGGTGTTCGGAGAGCGATTGGCCGACGCAAGCTCCACC
8	GCGACCCACCCGACACCATGAACAGTTGCGTCGGCCAATCGCTCTGTTAGATGCC
9	GTGGGTGCGCTGCTAACGATTTCTCAGAAAGCCCTTAAATAGATTAGTCACGCCAA
10	CTGCTTAGTATCTGAGAAATCGTTAGCATAATCTATTTAAGGGCTTGGGTCAACGA
11	TTTCGACCGAGCTGCAGAGGGTATGAGTTTCGCTGTGTGCTTGACCC
12	TTTCCTCTGACAGCTCGGTGCGAACAGCGAAACTCATACTTGGCGTGAC

Strands of extended tube from motifs of 15-nt overlapping domain (T1)

seq_ID	Sequence
1	TGGGCCAAGTTTACTTATTCTATTGTGGCTACCGTGTAAATACCTGGGT
2	CCAACATATCAATAGATAAGTAATTAACACGGTAGCCATGTCGTCGAT
3	ATATAGTTGGGAGGTGTCCTTAAAGTGCATTGGTTCACATAATCGACGACA
4	ACTTGGCCCACTTTAAGGACACCTCTAGTGAACCAATGCAACCCAGGGTA

Strands of extended tube from motifs of 16-nt overlapping domain (T2)

seq_ID	Sequence
1	CCGATGGGCCCTTCACTTAGTGTGCTGGAGCTTATACCAGTGGTCTGATGCCG
2	GGGACCGGCGCACGACACTAAGTGAACCACTGGTATAAGCTCTAGGCAGTAT
3	GGCCCATCGGACGCCCTACCCACAGCTATTGCGTTCGGTTGGCGGCATCAGA
4	CGCCGGTCCCCTGTGGGTAGGGCGTCCAACCGAACGCAATAATACTGCCTA

Strands of extended tube from motifs of 17-nt overlapping domain (T3)

seq_ID	Sequence
1	GTCTAACGAATATGATCCCAATGAGTTTGCCTTCTTTAGCAGACTACGTTGAGA
2	GAGGACCTGCAACTCATTTGGGATCATAGTCTGCTAAAGAAGGCAATCACTGGTG
3	GCAGTCTCGGGTCATGGGCTCTGTGCATACACATTCTTACCCACCAGTGAT
4	TTCGTTAGACCACAGAGCCCATGACCCGGTAAGGAATGTGTATGTCTCAACGTA

Strands of extended arches from repetitive trapezoid unit I (A1)

seq_ID	Sequence
1	TGAGACGTGTGGCTGAACGGGCACTCAAACATAACGGCCCTCAGCTGATGTCAG
2	TACGTCAGCATGAGTGCCCGTTCAGCCCTGAGGGCCGTTTAGTTGTCATCTGCC
3	GTCCATCCCTGGTAGTATCAGTGTATTATTTAGACAAGAATGTCTCGGCAGATGAC
4	TCGGCGACTCATAACACTGATACTACCGAGACATTCTTGTCTAACTGACATCAG
5	GAGTCGCCGACACGCGAGCCAAGGCGTCTAGCCATTATAGCGCCTCTCGCCA
6	AGGGATGGACCGCCTTGGCTCGCGTGCCTATAATGGCTAGAAAAGGACATAC
7	GGGCGATTATTGAACCCAAACAGGATCGCAGTGATGCTAAGTGTATGTCCCTT
8	CAGAGAGCGCATCCTGTTTGGGTTCAACTTAGCATCACTGCGTGGCGAGAGG
9	GCGCTCTCTGGAGGTGTTTCGCGCCCTATGACTTTCAAAGGGCTTCCGACC
10	ATAATCGCCCGGGCGCAACACCTCCCTTTGAAAGTCATAGGTATCCGAT
11	TTGGAGTGTGCACTTCCCTGACTACAGGGTTGATGATGGGCATCGGATACC
12	CTCCGTCTGCTGTAGTCAGGAAGTGGCCCATCATCAACCCGGTCGGAAGC
13	CACACTCCAATAAGGTAGCCGGAT
14	GCAGACGGAGATCCGGCTACCTTA
15	TGCTGACGTATTCCCTATATGGTTGGTCA
16	ACACGTCTCATGACCAACCATATAGGAA

Strands of extended arches from repetitive trapezoid unit II (A2)

seq_ID	Sequence
1	CCGAGCCGAAGGACATTTACCATTTGTGA
2	CTCAGTTCCCTCACAATGGTAAATGTCC
3	TTCGGCTCGGCGGGCGCTAGTGAATCATATTTAGTATATTATTTGGCCGCTCGAAA
4	GGGAACTGAGATGATTCACTAGCGCCCGCCAAATAATATACTAAATCCCGTCAGCT
5	AGATATAGAGTCGGGTTAGGGAGTAGCGTCTGACACTGGACCGTAGCTGACGGG
6	TCTCGCTGCGGCTACTCCCTAACCCGAACGGTCCAGTGTGAGACTTTTCGAGCGG
7	CGCAGCGAGACCTATCGTCATCACCGAATTGACGCATTTCCATTGTTCGGCCT
8	CTCTATATCTCGGTGATGACGATAGGTGGAAATGCGTCAATTGTATGTCACG
9	CGCTTAAACGCGACGGCTGATCGCCGATTTGCTAATAAAGCGTGACATAC
10	CTATTACACCGGCGATCAGCCGTCGCTTTATTAGCAAATCAGGCCGACAA
11	CGTTTAAAGCGAAGAGCATACGCTC
12	GGTGTAAATAGGAGCGTATGCTCTT