

Supporting information

A simple approach to study the conformational switching of i-motif DNA by fluorescence anisotropy

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DNA sequences

| | |
|--------------------|--|
| i-motif | CCCTAACCCCTAACCCCTAACCCAATT |
| ROX-i-motif cDNA | GTTAGTGTTAGTGTTAG |
| 7 layer i-motif | CCCCCCC TAA CCCCCC TAA CCCCCC TAA CCCCCC |
| 5 layer i-motif | CCCCC TAA CCCCC TAA CCCCC TAA CCCCC |
| 4 layer i-motif | CCCC TAA CCCC TAA CCCC TAA CCCC |
| 3 layer i-motif | CCC TAA CCC TAA CCC TAA CCC |
| 7 layer com | GGGGGGGTTAGGGGGGGTTAGGGGGGGTTAGGGGGGG |
| 7 layer 4mis | GGGTGGGTTAGGGTGGGTTAGGGTGGGTTAGGGTGGG |
| 7 layer 8mis | GGTGTGGTTAGGTGTGGTTAGGTGTGGTTAGGTGTGG |
| 7 layer short com | GGGGGGGTTAGGGGGGGTTAGGGGGGGTTAGG |
| 7 layer short 2mis | GGGGGGGTTAGGGTGGGTTAGGGTGGGTTAGG |
| 7 layer short 4mis | GGTGTGGTTAGGGGGGGTTAGGTGTGGTTAGG |
| 7 layer short 6mis | GGTGTGGTTAGGTGTGGTTAGGTGTGGTTAGG |
| 7 layer short 8mis | GGTGTGGTTAGTGTGTGTTAGTGTGTGTTAGG |
| 5 layer short com | GGTTAGGGGGTTAGGGGGTTA |
| 5 layer short 2mis | GGTTAGGTGGTTAGGTGGTTA |
| 5 layer short 3mis | GTTTAGGTGGTTAGGTGGTTA |

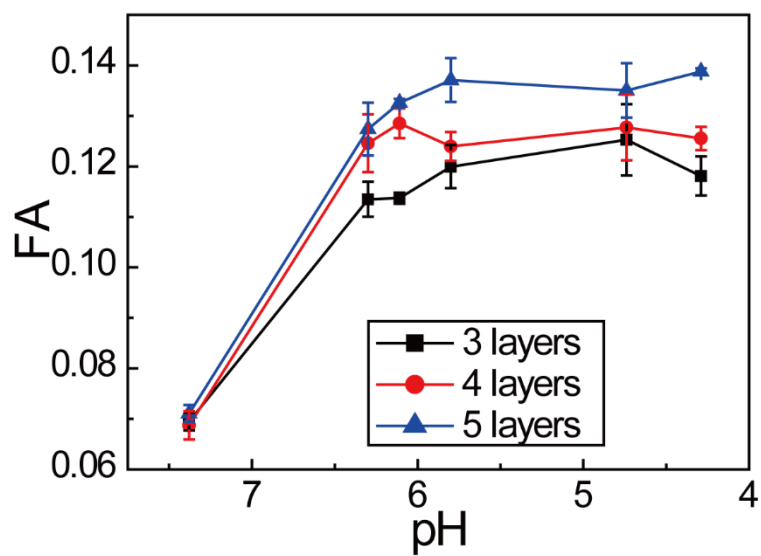


Figure S1 The fluorescence anisotropy response to the change of pH for i-motif structures formed by ROX-labeled DNA sequences.