Supporting Information

Table S1. Thermodynamic Parameters for the Self-Complementary Duplex Formations

<table>
<thead>
<tr>
<th>sequence</th>
<th>Abbreviation</th>
<th>$\Delta H^\circ$ (kcal mol$^{-1}$)</th>
<th>$\Delta S^\circ$ (cal mol$^{-1}$K$^{-1}$)</th>
<th>$\Delta G^\circ$ (kcal mol$^{-1}$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>r(CGCGCG)$_2$</td>
<td>r6</td>
<td>-54.7</td>
<td>-147</td>
<td>-9.2</td>
</tr>
<tr>
<td>r[(CGCGC)d(G)]$_2$</td>
<td>r5d1</td>
<td>-49.6</td>
<td>-133</td>
<td>-8.4</td>
</tr>
<tr>
<td>r[(CGCGG)d(CG)]$_2$</td>
<td>r4d2</td>
<td>-47.9</td>
<td>-128</td>
<td>-8.2</td>
</tr>
<tr>
<td>r[(CGC)d(GCG)]$_2$</td>
<td>r3d3</td>
<td>-41.7</td>
<td>-113</td>
<td>-6.7</td>
</tr>
<tr>
<td>r[(CG)d(CGCG)]$_2$</td>
<td>r2d4</td>
<td>-47.9</td>
<td>-133</td>
<td>-6.8</td>
</tr>
<tr>
<td>r[(C)d(GCGCG)]$_2$</td>
<td>r1d5</td>
<td>-48.5</td>
<td>-132</td>
<td>-7.6</td>
</tr>
<tr>
<td>d(CGCGCG)$_2$</td>
<td>d6</td>
<td>-53.9</td>
<td>-145</td>
<td>-8.5</td>
</tr>
</tbody>
</table>

*Data are derived from ref 21. All parameters were obtained in a buffer containing 1 M NaCl, 10 mM Na$_2$HPO$_4$, and 1 mM Na$_2$EDTA (pH 7.0).

Figure S1. Normalized melting curves of r4d4/r8, r4d4/d8, d4r4/r8, d4r4/d8, d4r4/r4d4, d4r4/d4r4, and r4d4/r4d4 monitored at 260 nm. All curves were obtained with a total strand concentration ~100 µM in 1 M NaCl-phosphate buffer at pH 7.0.