### 22AG

<table>
<thead>
<tr>
<th>Sequence (5’ to 3’)</th>
<th>$\epsilon_{260\text{nm}}$ ($M^{-1} \text{cm}^{-1}$)</th>
<th>DOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGGGTTAGGTTAGGTTAGGG</td>
<td>228500</td>
<td>10.1016/0969-2126(93)90015-9, 10.1038/nature755</td>
</tr>
</tbody>
</table>

*This sequence is polymorphic. 143D (above) is one known conformation observed in the presence of Na$^+$ cations.*

**Legend**

- **Strand direction (5’ to 3’)**
- **Nucleotide number (5’ to 3’)**
- **5’ end**

**Structure diagram of 22AG**

- adenine
- cytosine
- G-quartet guanine
- not-G-quartet guanine
- thymine

- Loop
- Syn
- Anti
- Ligand
Circular dichroism spectra of the 22AG oligonucleotide (10 µM), acquired at 25°C in 0.4-cm path-length cuvettes

$\Delta \varepsilon$ (M$^{-1}$ cm$^{-1}$)

Wavelength (nm)

- 100 mM TMAA (pH 7.0)
- 20 mM Kp (pH 7.0) + 70 mM KCl
- 100 mM TMAA (pH 7.0) + 1 mM KCl

$^1$H-NMR spectrum of the 22AG oligonucleotide, acquired at 25°C in 100 mM TMAA (pH 7.0) + 1 mM KCl
Folded fraction of the 22AG oligonucleotide as a function of temperature, determined by UV-melting ($\lambda = 295$ nm)
Native ESI-MS spectra of the 22AG oligonucleotide (10 µM)

Native ESI-MS spectra of the 22AG oligonucleotide (10 µM), focused on the 5⁻ charge state