**2O3M**

Sequence (5’ to 3’): AGGGAGGCGCTGGGAGGAGGG

$\epsilon_{260\text{nm}} (M^{-1} \text{cm}^{-1})$: 226700

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*Structure diagram of 2O3M*

**Legend**
- **red**: strand direction (5’ to 3’)
- **blue**: nucleotide number (5’ to 3’)
- **downward**: 5’ end
- **adenine**: ![adenine](image)
- **cytosine**: ![cytosine](image)
- **G-quartet guanine**: ![G-quartet guanine](image)
- **not-G-quartet guanine**: ![not-G-quartet guanine](image)
- **thymine**: ![thymine](image)

*Legend for structure diagram of 2O3M*
Circular dichroism spectra of the 2O3M 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 K$_p$ (pH 7.0) + 70 mM KCl
- 100 mM TMAA (pH 7.0) + 1 mM KCl

$^1$H-NMR spectrum of the 2O3M oligonucleotide, acquired at 25°C in 100 mM TMAA (pH 7.0) + 1 mM KCl
Folded fraction of the 203M oligonucleotide as a function of temperature, determined by UV-melting ($\lambda = 295$ nm)
Native ESI-MS spectra of the 2O3M oligonucleotide (10 µM)

Native ESI-MS spectra of the 2O3M oligonucleotide (10 µM), focused on the 5\(^{-}\) charge state