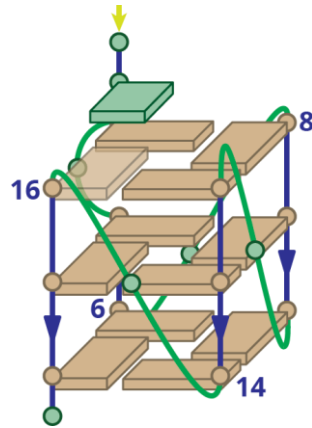


## 2M4P

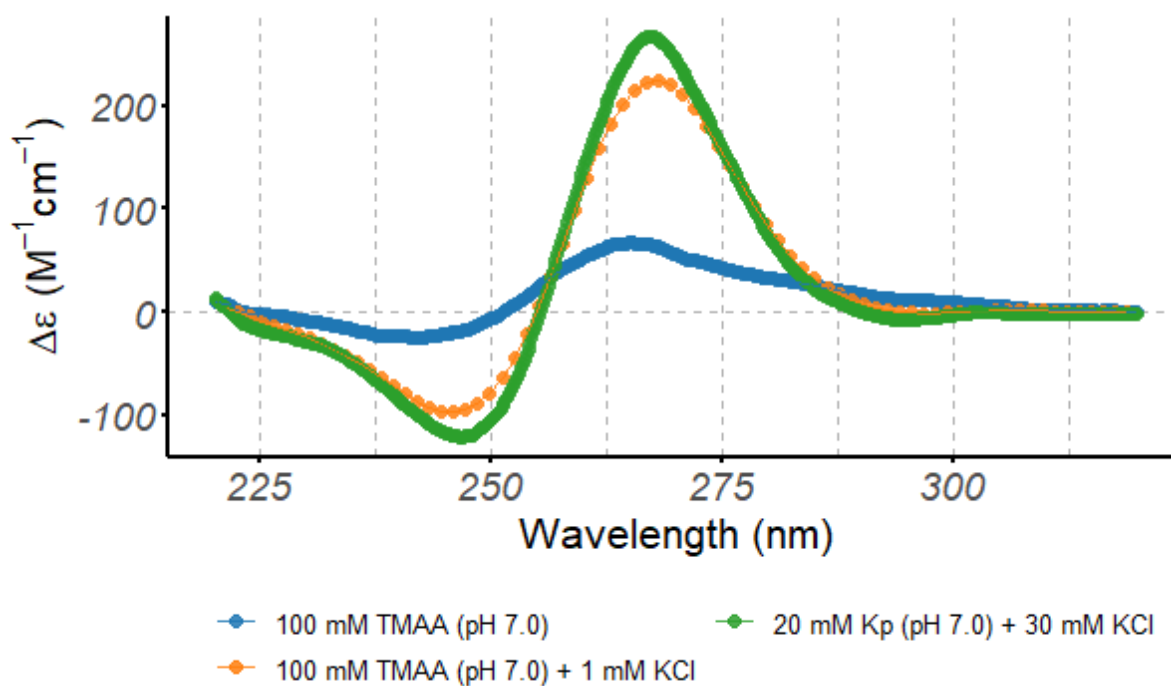
Sequence (5' to 3')	$\epsilon_{260nm}$ ( $M^{-1}cm^{-1}$ )	DOI
TTGTGGTGGGTGGGTGGGT	181500	10.1038/nature755



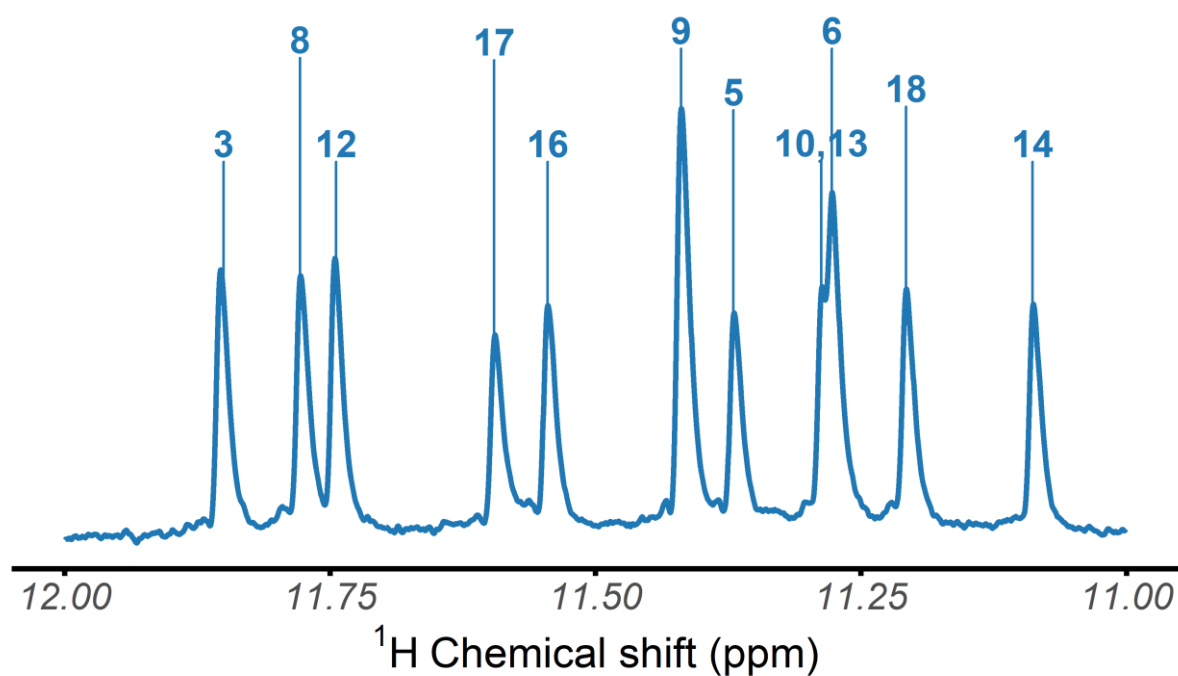
### Legend

- |                                 |        |                       |
|---------------------------------|--------|-----------------------|
| strand direction<br>(5' to 3')  | loop   | adenine               |
| nucleotide number<br>(5' to 3') | syn    | cytosine              |
| 5' end                          | anti   | G-quartet guanine     |
|                                 | ligand | not-G-quartet guanine |
|                                 |        | thymine               |

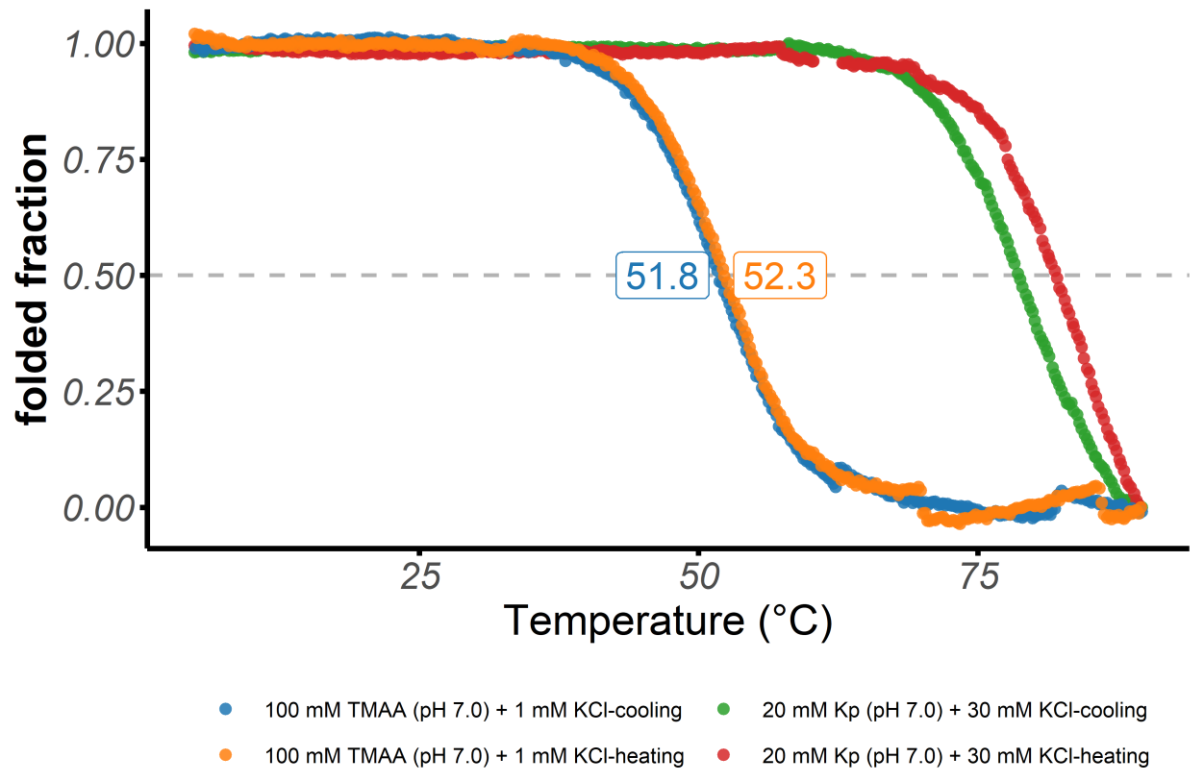
*Structure diagram of 2M4P*



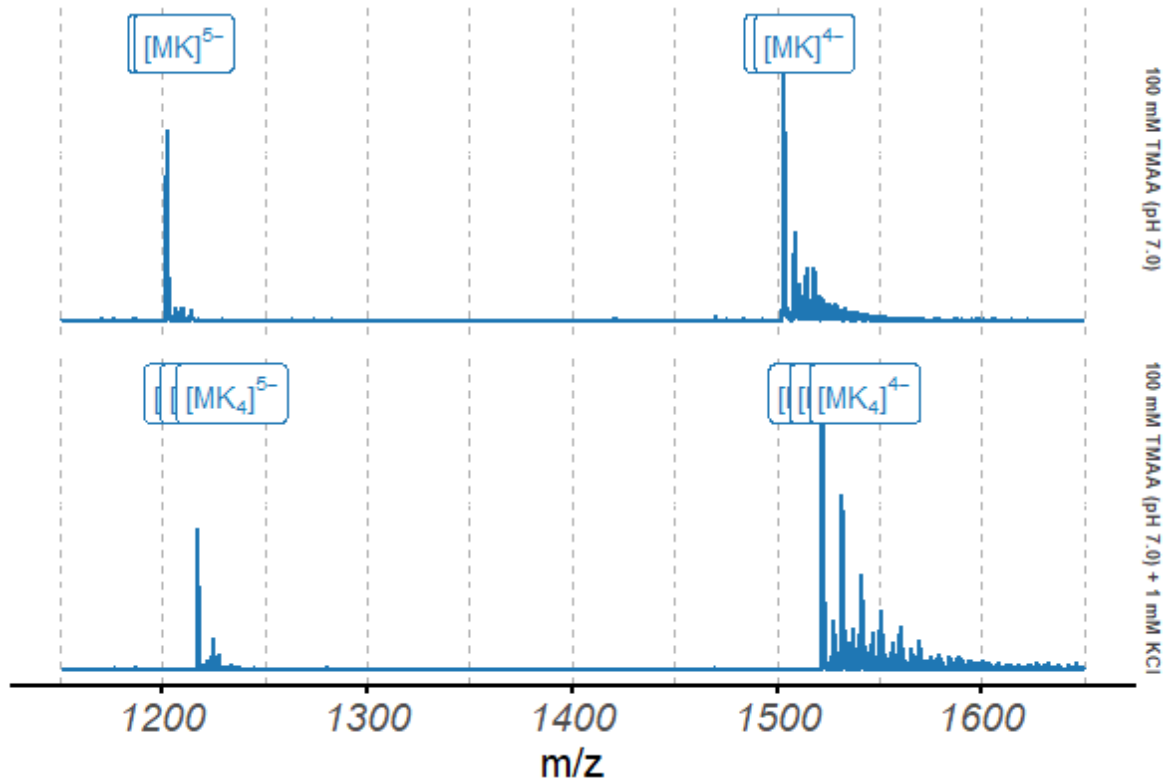
Circular dichroism spectra of the 2M4P oligonucleotide (10 μM), acquired at 25°C in 0.4-cm path-length cuvettes



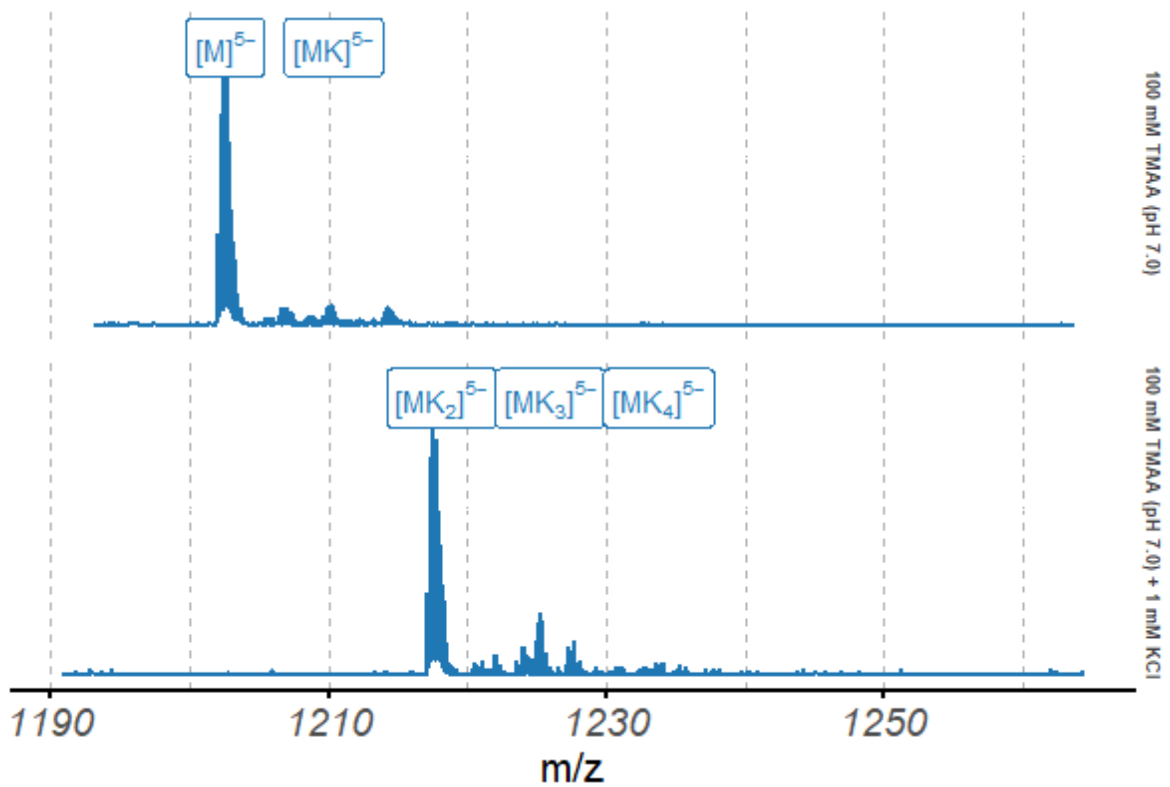
<sup>1</sup>H-NMR spectrum of the 2M4P oligonucleotide, acquired at 25°C in 100 mM TMAA (pH 7.0) + 1 mM KCl



*Folded fraction of the 2M4P oligonucleotide as a function of temperature, determined by UV-melting ( $\lambda = 295$  nm)*



Native ESI-MS spectra of the 2M4P oligonucleotide (10  $\mu$ M)



Native ESI-MS spectra of the 2M4P oligonucleotide (10  $\mu$ M), focused on the 5<sup>-</sup> charge state