Supplementary material for:

A mechanism for the extension and unfolding of parallel telomeric G-quadruplexes by human telomerase at single-molecule resolution.

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**Supplementary Table 1:** Oligonucleotides used in this study

|  |  |  |
| --- | --- | --- |
| **Name** | **Sequence (5' to 3')** | **Extinction coefficient (L\*M-1cm-1)** |
| 22G0 | AGGGTTAGGGTTAGGGTTAGGG | 228,500 |
| 22G3 | A(fG)GGTTA(fG)(fG)GTTA(fG)(fG)GTTA(fG)GG | 228,500 |
| 22G0-tail | TGGCGACGGCAGCGAGGCTAGGGTTAGGGTTAGGGTTAGGG | 407,300 |
| 22G3-tail | TGGCGACGGCAGCGAGGCTA(fG)GGTTA(fG)(fG)GTTA(fG)(fG)GTAlexaFluor555TA(fG)GG | 407,300 |
| 647-Strand2 | GCCTCGCTAlexaFluor647GCCGTCGCCA-Spacer18-Biotin | 192,600 |
| 7GGT | TTAGGGT | 69,800 |
| Bio-sp-7GGT | Biotin-Spacer18-TTAGGGT | 69,800 |
| 647-7GGT | Spacer18-TTAlexaFluor647AGGGT | 69,800 |
| 555-7GGT | Spacer18-TTAlexaFluor555AGGGT | 69,800 |
| Bio-L-18GGG | Biotin-CTAGACCTGTCATCATTAGGGTTAGGGTTAGGG | 325,000 |
| RNA.10C | CUAACCCUAA | 98,200 |
| DNA.10C | CTAACCCTAA | 96,600 |

(fG) = 2'F-araG