

**CHEMBIOCHEM**

## Supporting Information

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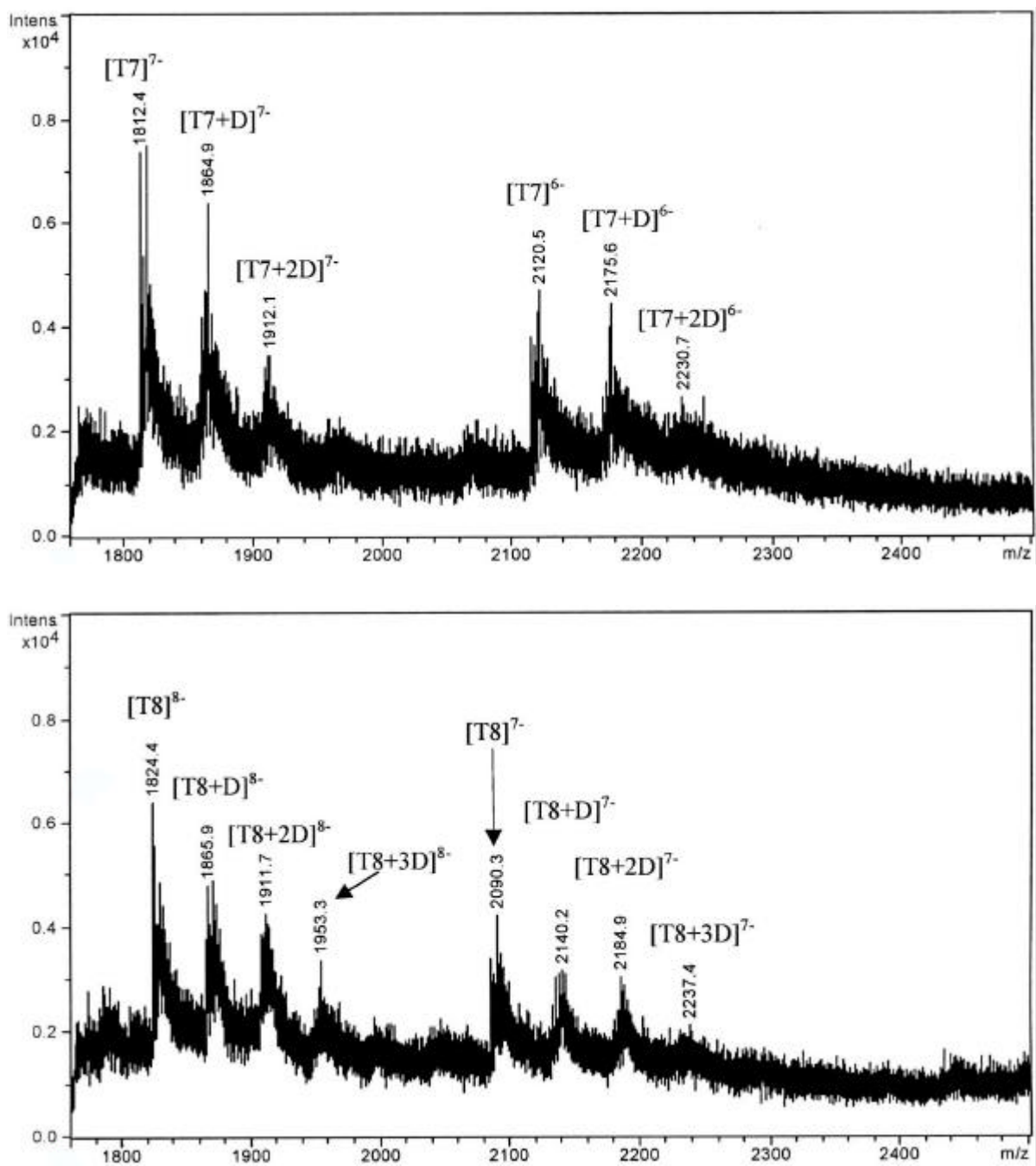
for

### Ligand Binding to Tandem G-Quadruplexes from Human Telomeric DNA

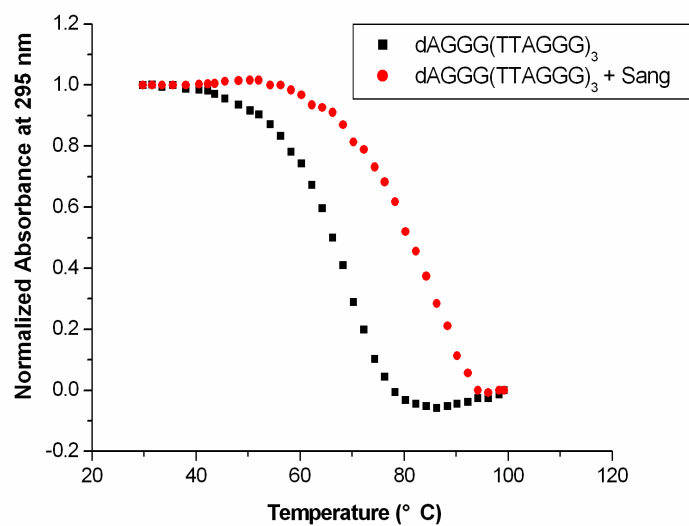
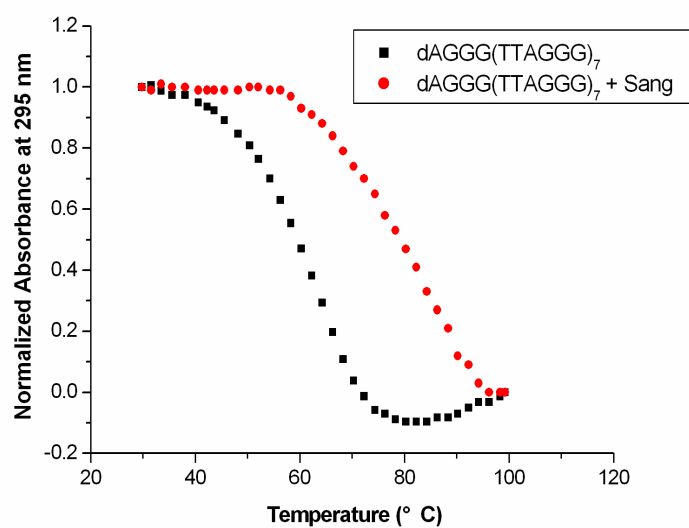
Li-Ping Bai, Masaki Hagihara, Zhi-Hong Jiang,\* and Kazuhiko Nakatani\*

**Table S1.** DNA sequences used in DNA polymerase stop assays.

Name	Sequence <sup>[a]</sup>
Primer	5'-TAA TAC GAC TCA CTA TAG GG-3'
Template (Tem) <sub>n</sub> n=(3-8)	3'-ATT ATG CTG AGT GAT ATC CCC GTT AAC GCA CGC GAT CTG TAC TG <u>ATT (GGG ATT)<sub>n</sub></u> CAT ATG TAT CAA CCT-5'
[a] The human telomeric repeats are shown in underlined bold face.	



**Figure S1.** Negative ESI-TOF-MS spectra of equimolar mixture of sanguinarine (D, 25  $\mu\text{M}$ ) with telomeric sequence dAGGG(TTAGGG)<sub>6</sub> (T7, 25  $\mu\text{M}$ ), and dAGGG(TTAGGG)<sub>7</sub> (T8, 25  $\mu\text{M}$ ).



**Figure S2.** Thermal denaturation profiles of dAGGG(TTAGGG)<sub>7</sub> and dAGGG(TTAGGG)<sub>3</sub> in the absence and presence of sanguinarine in 25 mM Tris-HCl buffer (pH 7.0) containing 100 mM KCl