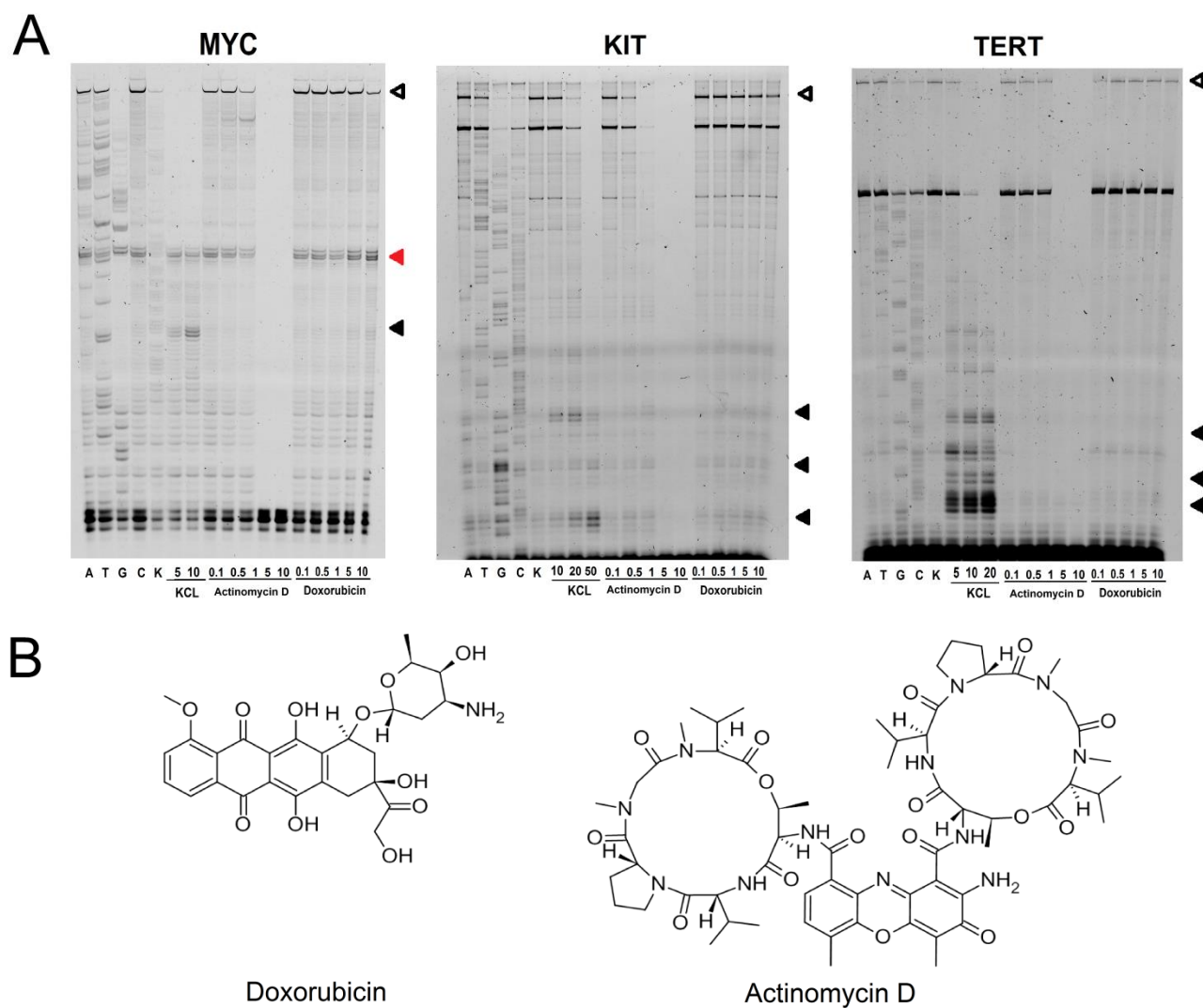


## Supplementary material

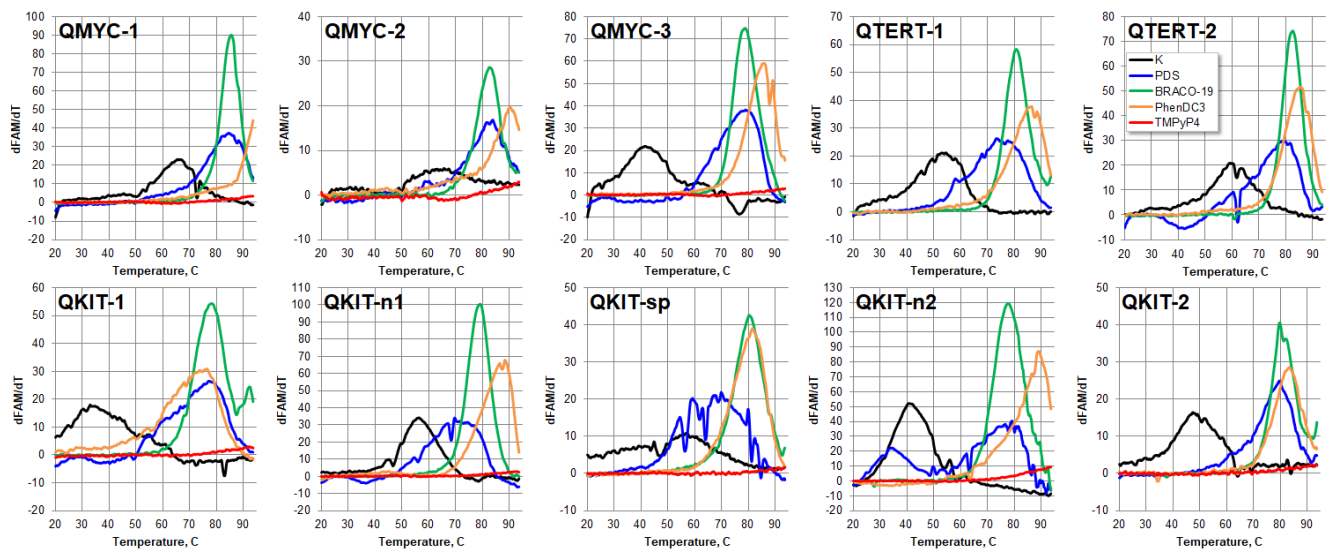
### Taq-polymerase stop assay to determine target selectivity of G4 ligands in native promoter sequences of MYC, TERT, and KIT oncogenes

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**Figure S1.** (A) Products of elongation of a FAM-labeled primer in the promoter regions of human genes (*MYC*, *KIT*, and *TERT*) in the presence of potassium ions, Actinomycin D, and Doxorubicin in different concentrations (0-10  $\mu$ M). The the products were separated in a denaturing 10% PAAG. Concentration of KCL is given in mM. Concentration Actinomycin D, and Doxorubicin is in  $\mu$ M. Black triangles indicate polymerase pauses. The red triangle indicates the supposed hairpin. The open triangle is a full-length product. (B) Chemical structures of Doxorubicin and Actinomycin D.



**Figure S2.** The first derivative plots of FRET melting profiles for DNA oligonucleotides corresponded the polymerase pause sites in presence of potassium ions or G4 ligands.