Electronic supplementary information to accompany the manuscript:

Thermoelectric Method for Sequencing DNA

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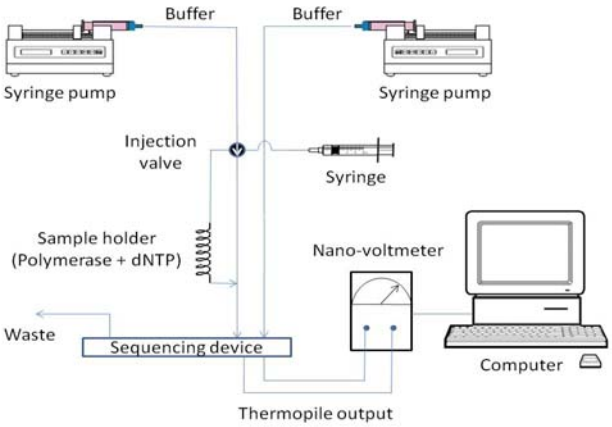

Fig.S1. Two Harvard Apparatus syringe pumps inject 1xPolymerase buffer solution into the inlet ports of the microfluidic device. The sample is injected to the buffer stream supplied to Inlet 2 using a 6-Port injection valve. The thermopile voltage is measured using a nanovolt meter and the signal is recorded using LabView SignalExpress software.

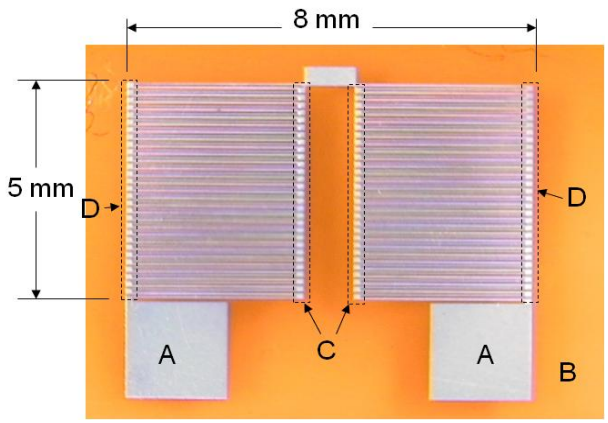

Fig.S2. Anthimony/Bismuth thermopile with 60 thermocouple junctions (A = contact pads, B = polyimide support, C = measuring junctions, D = reference junctions).

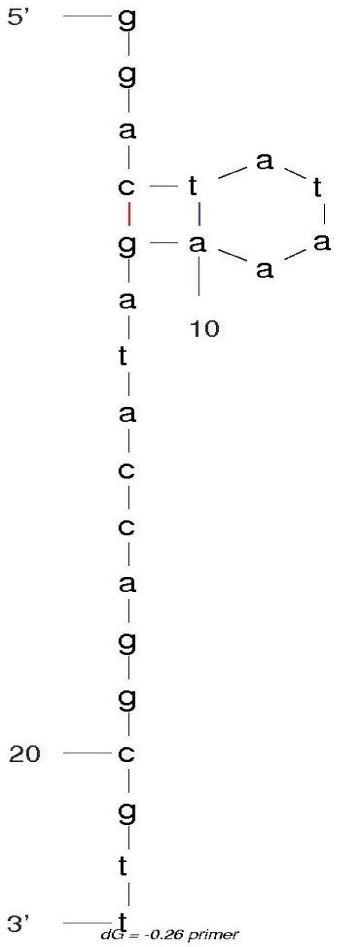

Fig.S3. Secondary structure configuration of the primer. [31, 32]

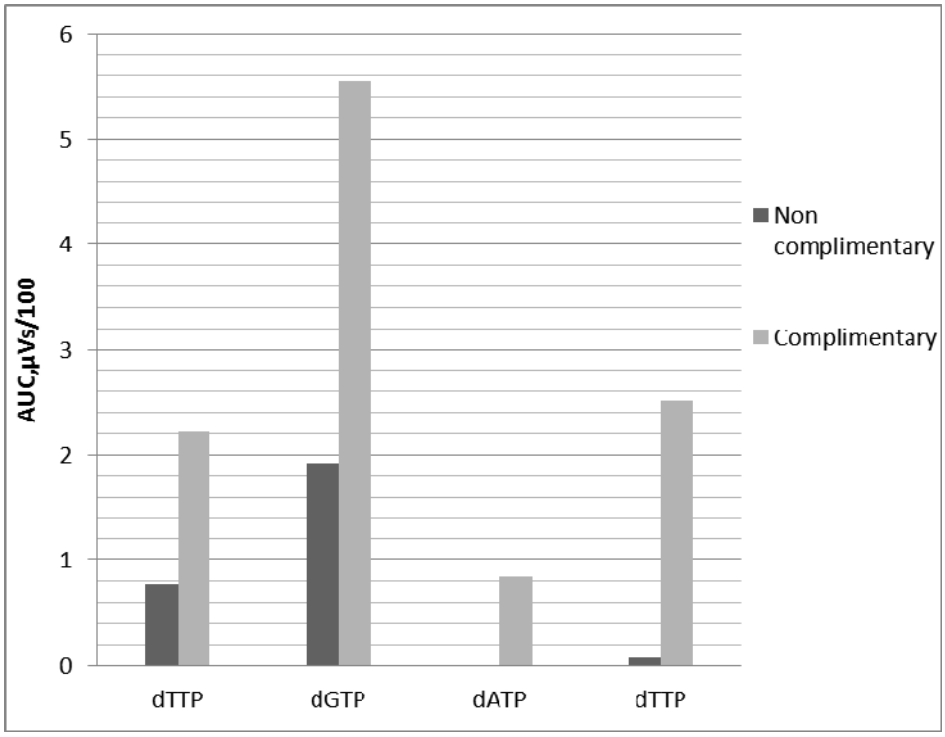

Fig.S4. Thermopile response after injection of non-complimentary and complimentary dTTP and dGTP, and dATP.