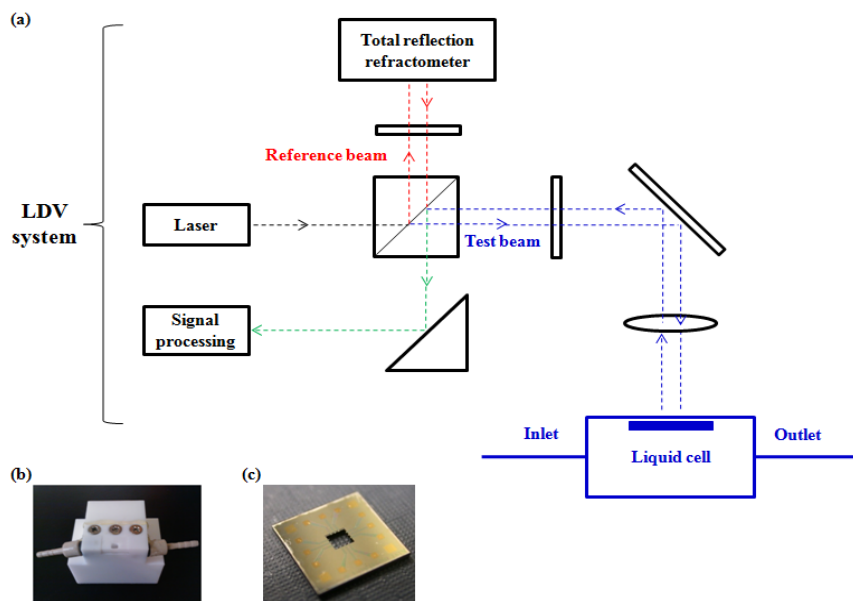


Analysis of DNA hybridization regarding the conformation of molecular layer with piezoelectric microcantilevers

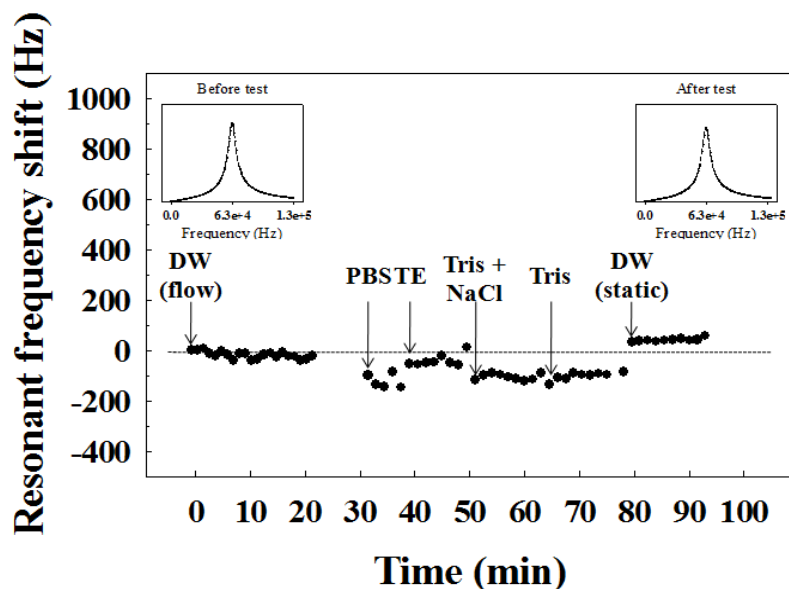
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Kim^{*b}

Supplementary Fig. 1 Schematic of LDV system (a), image of liquid cell (b) and PZT-embedded microcantilever (c).



Supplementary Fig. 2 Cantilever oscillation in various aqueous environment. DW: flow rate 2.5 mL/h; PBS buffer: NaCl 137mM, KCl 2.7 mM, Na₂HPO₄ 10 mM, KH₂PO₄ 1.76 mM, pH 7.4; TE buffer: 10 mM Tris, 1 mM EDTA, pH 7.4; Tris+NaCl buffer: Tris 10 mM, NaCl 140 mM, pH 7.4; Tris buffer: Tris 100 mM, pH 7.4. Inset shows the peak quality of resonating microcantilever before and after buffer test.



Supplementary Fig. 3 Length comparison between HP0 and HP10.

