Supporting Information for
Parallel picoliter RT-PCR assays using microfluidics

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Figure S-1

a. Benchtop qRT-PCR standard curve utilizing serially diluted human male total RNA as template. We were able to detect the 0.5 pg template in only one of five reactions.

b. Fluorescence traces of RT-PCR control reactions. Red curves are no template reactions. All other curves are no RT reactions with serially diluted human male total RNA templates. Templates range from 0.05 pg total RNA (gray) to 500 pg total RNA (black). Only reactions with 500 pg total RNA and 50 pg total RNA (magenta) templates amplified. All other templates (5 pg total RNA, green; 0.5 pg total RNA, blue) did not amplify. We can estimate the percent of gDNA contamination by plotting the Ct values of the no RT reactions onto the off chip standard curve shown in a. When this is done, gDNA contamination is estimated to be 0.3% of total RNA template.