**[Supporting Information]**

**Title: "Droplet based Microfluidic Approach and Microsphere-PCR Amplification for single stranded DNA Amplicons"**

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Supplementary Figure 1 illustrates the mask layout of the microfluidic network designed in CAD program. The length of the serpentine channel for mixing two solutions and the sequential polymerization channel for microsphere solidification are 59.29 mm and 66.25 mm, respectively.



**Supplementary Figure 1.** **Mask layout of the microfluidic network.**

**Supplementary Figure 2** shows the magnified view of the flow focusing geometry in the microfluidic network.



**Supplementary Figure 2.** Magnified view of the flow focusing geometry.