



Fig. S4.

Two arraying methods are shown. (a): Manual arraying with 48 spot-derivatized substrate and micropipette. (b): Three block derivatized substrate and microarrayer, NanoPrintTM with Stealth Pins (P/N SMP4B, Arrayit Corp.). Spot diameter was 100 - 200 μm , dispensing volume was *ca.* 500 pico Liter and density and array density was 1,254 spots/ cm^2 .