## **Supporting Information**

A DNA-aptamer	based qPCR using	; light-up	dyes for
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## the detection of nucleic acids

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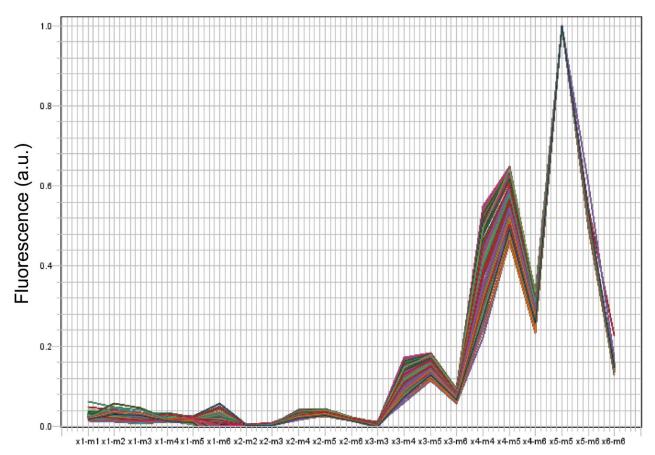
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## **Table of Contents**

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**Excitation-Emmission Wavelength Windows** 

## Supporting Figure 1: Fluorescence calibration of DIR dye with DIR2-1 aptamer

A 96-well plate with 20  $\mu$ L total volume in each well with 400 nM DIR dye and 400 nM DIR2-1 aptamer was calibrated on the qPCR instrument based on manufacturer's protocol. The excitation filter sets are x1: 470  $\pm$  15 nm, x2: 520  $\pm$  10 nm, x3: 549.5  $\pm$  10 nm, x4: 580  $\pm$  10 nm, x5: 640  $\pm$  10 nm, and x6: 662  $\pm$  10 nm; the emission filter sets are m1: 520  $\pm$  15 nm, m2: 558  $\pm$  12 nm, m3: 586.5  $\pm$  10 nm, m4: 623  $\pm$  14 nm, m5: 682  $\pm$  14 nm, and m6: 711  $\pm$  12 nm. A strong, sharp and consistent peak was observed for all the 96 samples using the excitation filter x5: 640  $\pm$  10 nm and emission filter m5: 682  $\pm$  14 nm.