

Electronic Supplementary Information

Construction of Logic Gates with the Fluorene-Based Small Molecule/DNA Probes

Jing Guo, Ting Wang and Renqiang Yang ^{*a}

^a Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, 189

Songling Rd., Qingdao 266101, China.

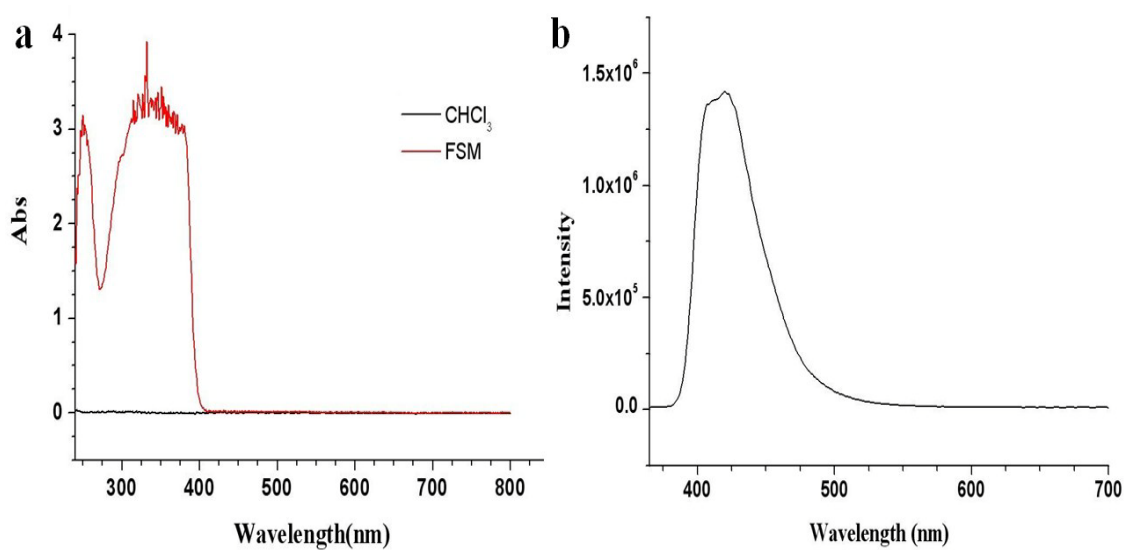


Fig. S1 UV-vis absorption spectra (a) and fluorescent spectra (b) of FSM

The UV-vis spectra and fluorescent spectra of the fluorene-based small molecule (FSM) were solely measured. The maximum absorption wavelength of FSM was 332 nm and the maximum emission wavelength was 420 nm.

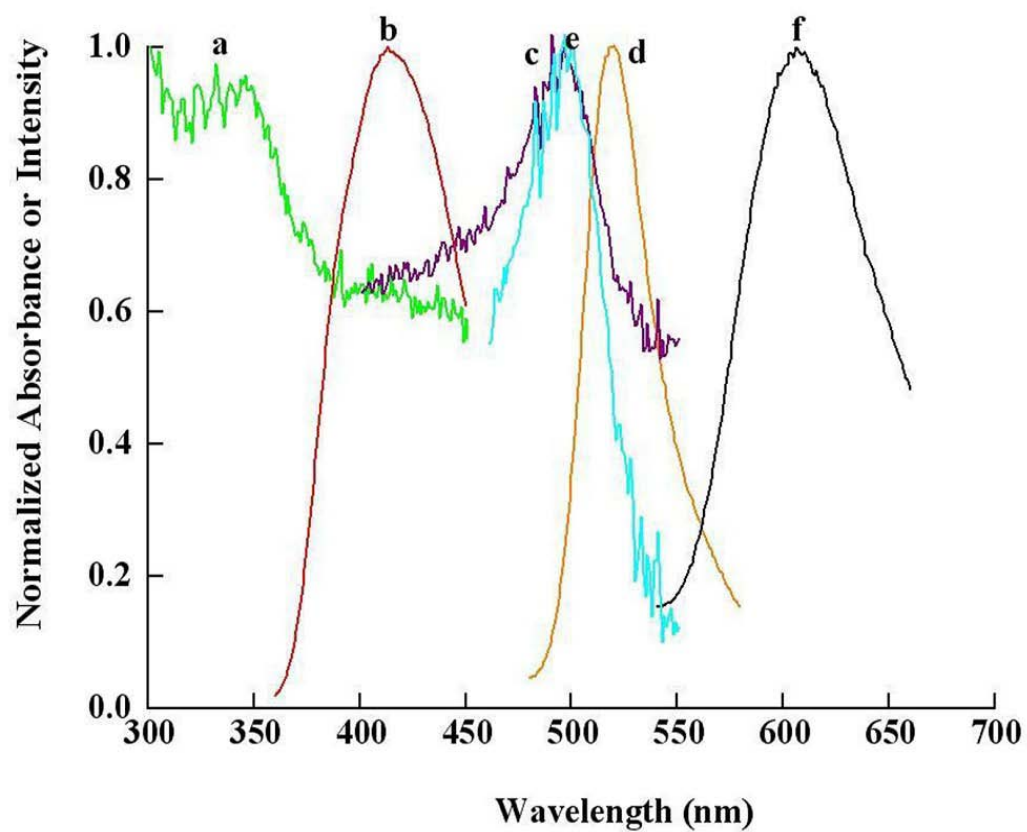


Fig. S2 UV-vis absorption spectra and fluorescence spectra of FSM/DNA probe (a and b), 5'-FITC-ssDNA (c and d), and EB/dsDNA (e and f).

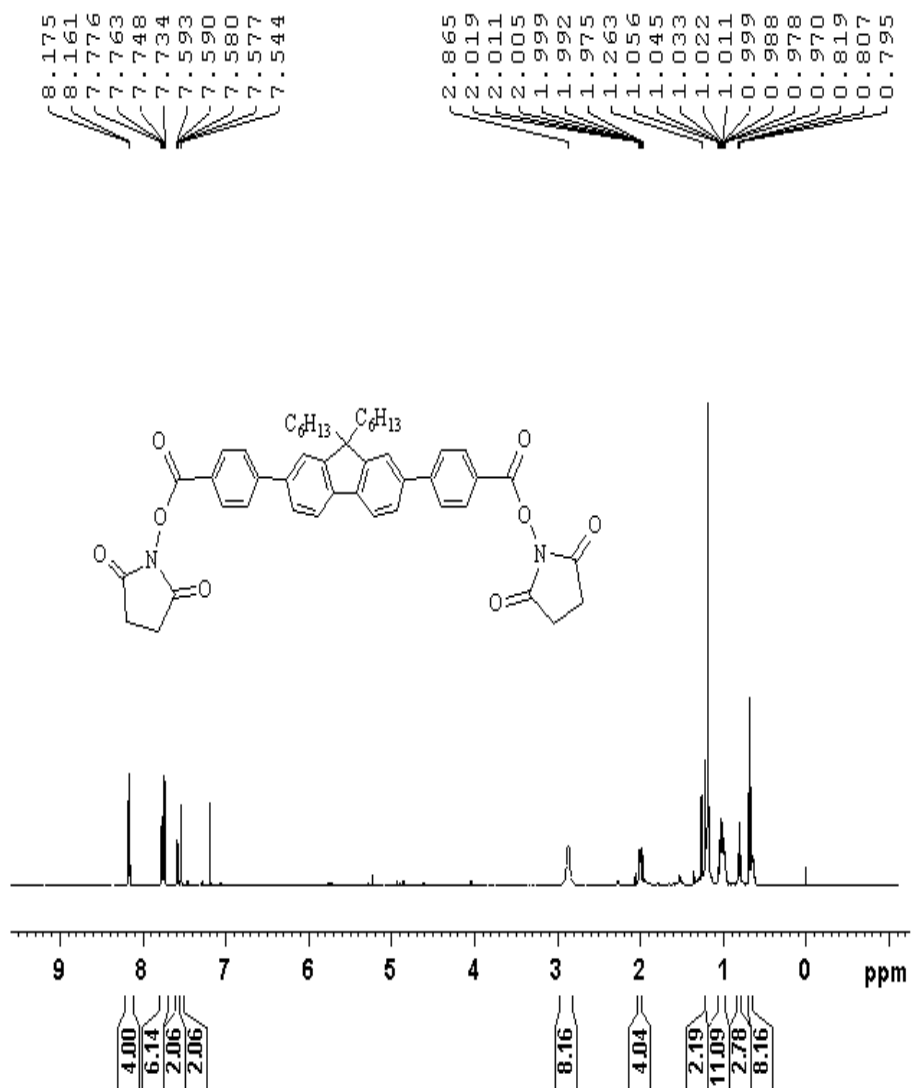


Fig. S3 1H -NMR spectra of the FSM