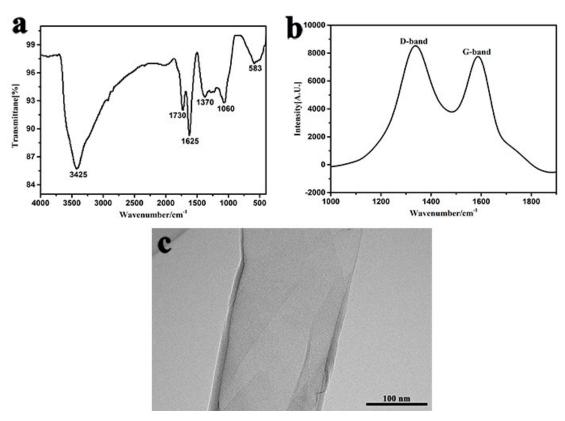
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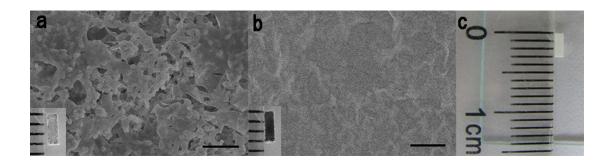
## **Supporting Materials**

## Paper-based FRET for direct detection of collagen triple helix

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**Figure S1.** Characterization of GO: (a) FT-IR spectra of GO. (b) Raman spectra of GO. (c) TEM image of GO.



**Figure S2.** SEM images of the paper strips modified with different concentrations of GO: 1 mg/mL (a) and 10 mg/mL (b). Scale bar = 2.5  $\mu$ m. The images of paper strips modified with different concentrations of GO (a: 1 mg/mL; b: 10 mg/mL; c: 0 mg/ml) were recorded by smartphones, and their sizes were measured by a ruler.