Supplementary Information

An “off-on” phosphorescent aptasensor for the detection of thrombin

based on PRET

Yan Xiong, Meiyu Liang, Yue Cheng, Jiarui Zou, Yan Li*

Key Laboratory of Inorganic-Organic Hybrid Functional Materials Chemistry (Tianjin Normal University), Tianjin Key Laboratory of Structure and Performance for Functional Molecule, College of Chemistry, Tianjin Normal University, Tianjin, 300387, P.R. China

* E-mail: nkliyan398@gmail.com
Fig. S1. The excitation spectrum (curve a), RTP emission spectrum of phosphorescent QDs after aging at 50 °C under open air for 2 h (curve c) and not aging (curve b).
Fig. S2. Schematic illustration of electronic transition.
Fig. S3. Phosphorescence spectra of QDs (curve a), QDs+thrombin (curve b), QDs+TBA-BHQ$_2$ (curve c), and QDs/TBA-BHQ$_2$+thrombin (curve d).
Fig. S4. The influence of different temperature on the “off-on” phosphorescence aptasensor system.