Supporting information

**DNA-induced Synthesis of Biomimetic Enzyme for Sensitive Detection of Superoxide Anions released from live cell**

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Fig S1. Zeta potential of graphene, graphene/DNA and graphene/DNA/Mn$_3$(PO$_4$)$_2$.
Fig. S2. EDS of the synthesized graphene/DNA/Mn$_3$(PO$_4$)$_2$. 

| Elem | Weight % | Atomic % |
|------|----------|----------|
| O K  | 43.50    | 68.70    |
| P K  | 14.80    | 12.10    |
| MnK  | 41.70    | 19.20    |
Fig. S3. Voltmmograms obtained at Graphene/Mn$_3$(PO$_4$)$_2$/GCE (A), Mn$_3$(PO$_4$)$_2$/DNA/GCE (B), Graphene/DNA/Mn$^{2+}$/GCE (C) and Graphene/DNA/ Mn$_3$(PO$_4$)$_2$/GCE (D) in 0.01M PBS (pH =7.4) and in the presence of 1.0 μM O$_2^-$ and the mixture of O$_2^-$ and SOD (potential scan rate: 50 mV/s).
Fig. S4. The stability of the sensor.