

## **Supporting Information**

### **A self-directed and reconstructible immobilization strategy: DNA directed immobilization of alkaline phosphatase for enzyme inhibition assays**

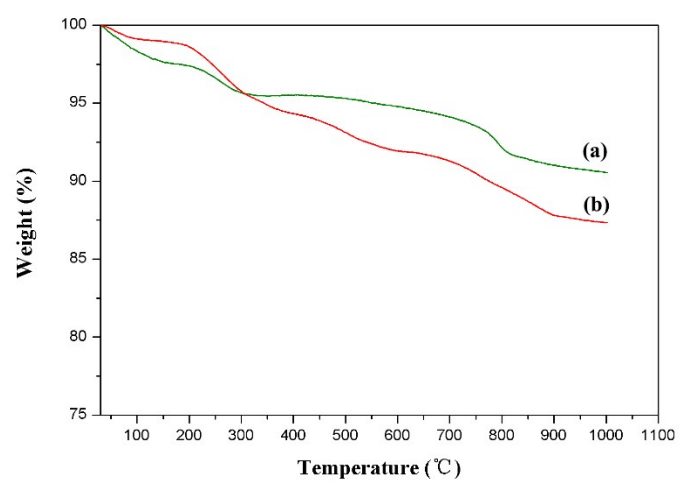
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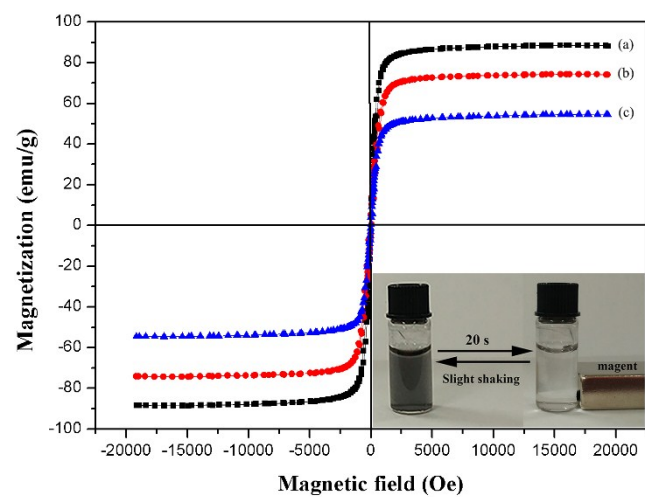
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**Table S1** DNAs used in this experiment

Name		Sequence
Probe DNA	p12	5'-NH <sub>2</sub> -CTTAGCTTCATC-3'
	p24	5'-NH <sub>2</sub> -CTTAGCTTCATCGAGGTCCAGTCA-3'
	p33	5'-NH <sub>2</sub> -CTTAGCTTCATCGAGGTCCAGTCAACGTGCGTC-3'
	p42	5'-NH <sub>2</sub> -CTTAGCTTCATCGAGGTCCAGTCAACGTGCGTCCAG TTCAGG-3'
Complementary DNA	c12	5'-SH-GATG AAGCTAAG-3'
	c24	5'-SH-TGACTGGACCTCGATGAAGCTAAG-3'
	c33	5'-SH-GACGCACGTTGACTGGACCTCGATGAAGCTAAG-3'
	c42	5'-SH-CCTGAACTGGACGCACGTTGACTGGACCTCGAT GAAGCTAAG-3'



**Fig. S1** TGA curves of (a)  $\text{SiO}_2@\text{Fe}_3\text{O}_4$  and (b) ALP-DNA-MNPs.



**Fig. S2** Magnetization curves of (a) Fe<sub>3</sub>O<sub>4</sub>, (b) SiO<sub>2</sub>@Fe<sub>3</sub>O<sub>4</sub> and (c) ALP-DNA-MNPs.