Supporting Information

No.	Name	Sequence (5'-3')
1	AT24-A6-hairpin	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ ΑΑΑΑΑΑ
		ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ
2	ds DNA-A6-hairpin	CTGAAGTTCTGATGACCACGCGCC AAAAAA GGCGCGTGGTCATCAGA
		ACTTCAG
3	ds DNA	CTGAAGTTCTGATGACCACGCGCC (DNA1)
		GGCGCGTGGTCATCAGAACTTCAG (DNA2)
4	AT24 ds DNA	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ
5	ssDNA-A6	CTGAAGTTCTGATGACCAGCGGCG AAAAAA
		TTCATCTAGATTGCGGAG
		GAAGGT
6	AT24-T6-hairpin	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ ΤΤΤΤΤΤ
		ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ
7	AT24-G6-hairpin	TATATATATATATATATATATA GGGGGG
		ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ
8	AT24-C6-hairpin	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ CCCCCC
		ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ
9	AT24-A10-hairpin	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ ΑΑΑΑΑΑΑΑΑ
		ТАТАТАТАТАТАТАТАТ
		АТАТА
10	AT24-A15-hairpin	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ ΑΑΑΑΑΑΑΑΑΑΑΑΑ
		ТАТАТАТАТАТАТ
		АТАТАТАТАТА
11	AT24-A20-hairpin	ΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ ΑΑΑΑΑΑΑΑΑΑΑ
		ТАТАТАТ
		ΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑΤΑ

Table S1. Names and sequences of the oligonucleotides.



Fig. S2 Effect of S1 nuclease cleavage time on the fluorescence intensity of AT24-A6-hairpin CuNCs. Concentration: AT24-A6-hairpin DNA, 100 nM; S1 nuclease, 0.4 U/mL.



Fig. S3 Effect of CuNCs synthesis time on the fluorescence intensity of AT24-A6-hairpin CuNCs. Concentration: AT24-A6-hairpin DNA, 100 nM; S1 nuclease, 0.4 U/mL.



Fig. S4 Effect of pH on the fluorescence intensity of AT24-A6-hairpin CuNCs. Concentration: AT24-A6-hairpin DNA, 100 nM; S1 nuclease, 0.4 U/mL.



Fig. S5 Effect of different base sequence of hairpin loop on the sensitivity of the strategy. Concentration: AT24-X6-hairpin DNA (X=A, T, G, C), 100 nM; nuclease, 0.4 U/mL.



Fig. S6 Selectivity of the AT24-A6-hairpin CuNCs for S1 nuclease. Concentration: AT24-A6-hairpin DNA, 100 nM; nuclease, 0.4 U/mL.