

## Supporting materials

### Highly sensitive electrochemical biosensor for microRNA122 detection based on target-induced DNA nanostructure

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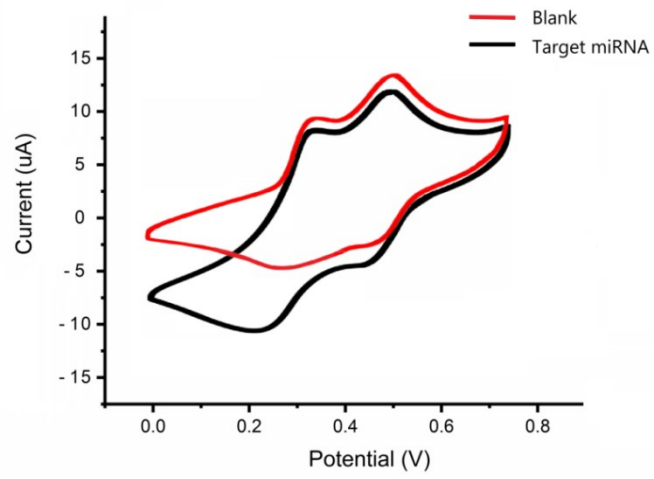
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36 **Table S1.** DNA and microRNA sequences employed in this work.

Name	Sequence ( 5'– 3')
S1	SH- TATCACCAGGCAGTTGACAGTGTAGCAAGCTGTAATA GATGCGAGGGTCCAATAC
S2	SH- TCAACTGCCTGGTGATAAAACGACACTACGTGGGAAT CTACTATGGCGGCTCTTC
S3	SH- TTCAGACTTAGGAATGTGCTTCCCACGTAGTGTCGTTT
S4	GTATTGGACCCTCGCAT ACATTCCTAAGTCTGAAACATTACAGCTTGCTACACGA GAAGAGCCGCCATAGTATTTTTTTTTTACGTTGCACTG CCTTGATGGACTAT
helper	GCAATTTGGAGTGTGACAATGGTCAAACACCATTGTC ACACTCCATTTTTTATAGTCCATCAAGGCAGTGTGCAA CGT
miRNA	UGGAGUGUGACAAUGGUGUUUG
H1	biotin- ACCATTGTCACACTCCAAATTGCTGGAGTGTGACAATG GTGTTTGA
H2	GCAATTTGGAGTGTGACAATGGTTCAAACACCATTGTC ACACTCCA-biotin
Signal-mismatch	UGGAGUGUGAGAAUGGUGUUUG
Double- mismatches	UGGTGUGUGAGAAUGGUGUUUG
Multiple- mismatches	UGGTGUGUGAGAAUGGUGGUUG
ss-DNA	SH-TTTTTTTTTTACGTTGCACTGCCTTGATGGACTAT



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39 Fig S1. The cyclic voltammetry (CV) measurement for this electrochemical biosensor in the presence of 10  
40 fM of target microRNA (black line) and in the absence (red line).