

Fabrication of Troponin I Biosensor Composed of Multi-functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method

Optimized Sequence Result of cTnI

(Optimized Sequence Length:645, GC%:57.04)

GGATCC

ATGGCGGATGGCAGCAGCGATGCGGCGCGTGAACCGCGTCCGGCGCCGGCG
CCGATTCGTTCGTTCGTAGCAGCAATTACCGTGCGTATGCGACCGAACCGCACG
CGAAGAAAAAGAGCAAAATCAGCGCGAGCCGTAAACTGCAGCTGAAAACC
CTGCTGCTGCAGATTGCGAAACAAGAGCTGGAACGTGAGGCGGAGGAACGT
CGTGGTGAGAAAGGTCGTGCGCTGAGCACCCGTTGCCAACCGCTGGAACGT
GCGGGTCTGGGCTTTGCGGAGCTGCAGGACCTGTGCCGTCAACTGCACGCGC
GTGTGGACAAAGTTGATGAGGAACGTTACGACATCGAAGCGAAAGTGACCA
AGAACATCACCGAGATTGCGGACCTGACCCAGAAAATCTTCGATCTGCGTGG
TAAATTTAAGCGTCCGACCCTGCGTCGTGTTTCGTATTAGCGCGGATGCGATGA
TGCAGGCGCTGCTGGGCGCGCGTGCGAAGGAAAGCCTGGATCTGCGTGCGC
ACCTGAAACAAGTGAAGAAAGAGGACACCGAAAAGGAGAACCGTGAGGTT
GGTGATTGGCGTAAGAACATTGATGCGCTGAGCGGTATGGAGGGTCGTAAGA
AGAAGTTTGAGAGC

TGAAAGCTT

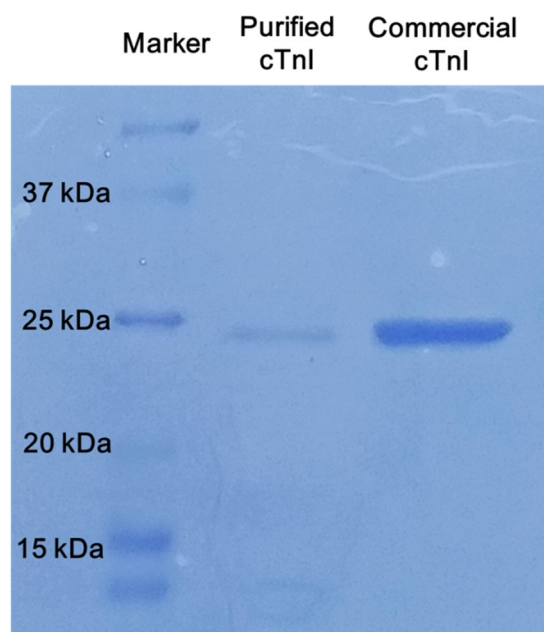


Figure S1. The purified cTnI confirmed by 12% SDS-PAGE.

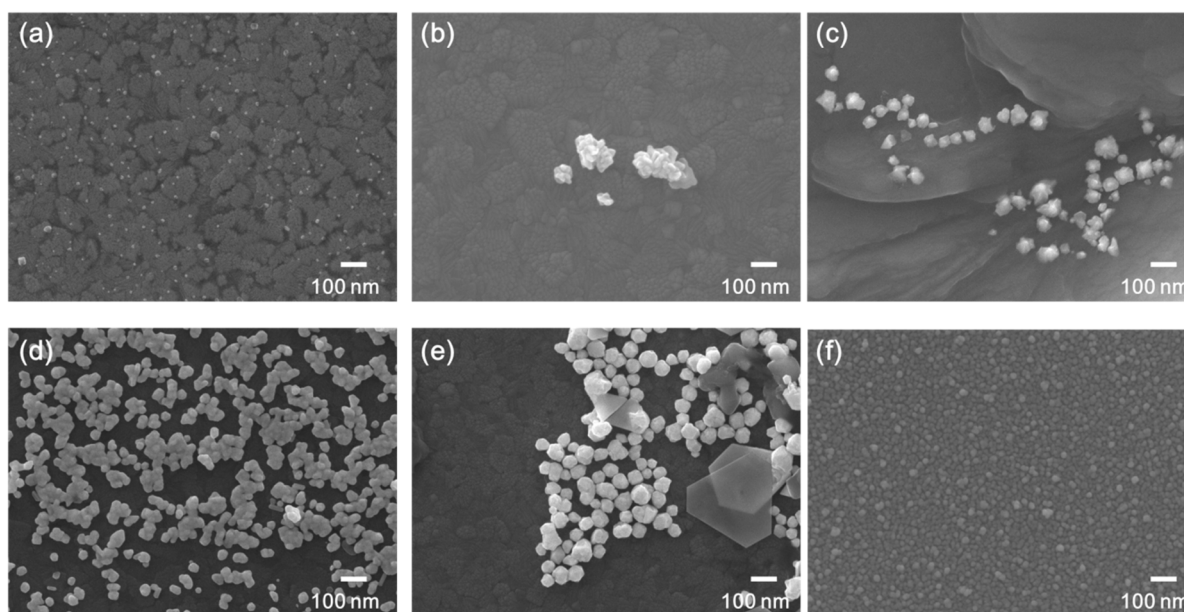


Figure S2. FE-SEM images of AuNC-modified ITO electrode.

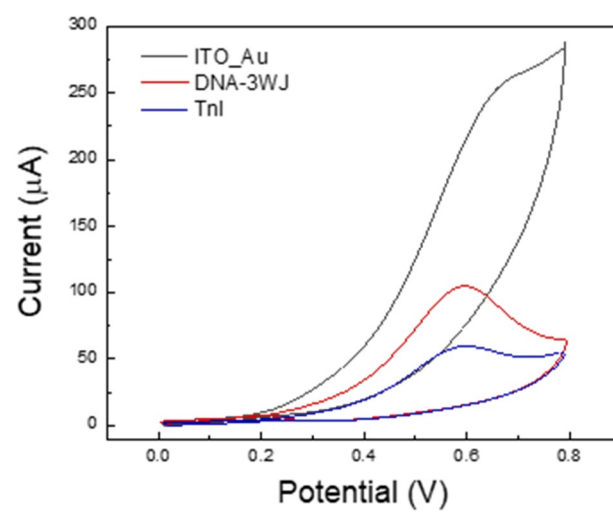


Figure S3. Cyclic voltammogram of cTnI/DNA-3WJ on AuNC-modified ITO electrode.