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Article

Gold Nanoprobes for Detection of a Crucial EGFR Deletion for Early Diagnosis of Non-Small-Cell Lung Cancer

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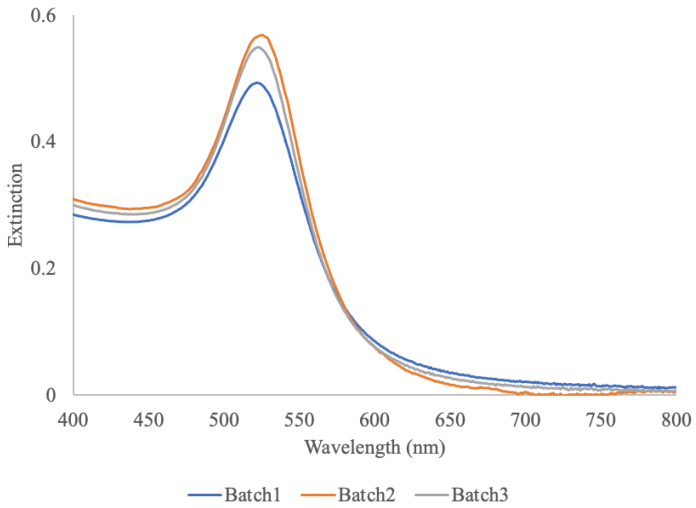

Figure S1. UV-Vis spectra of three different batches of the synthesized 35 nm AuNPs.

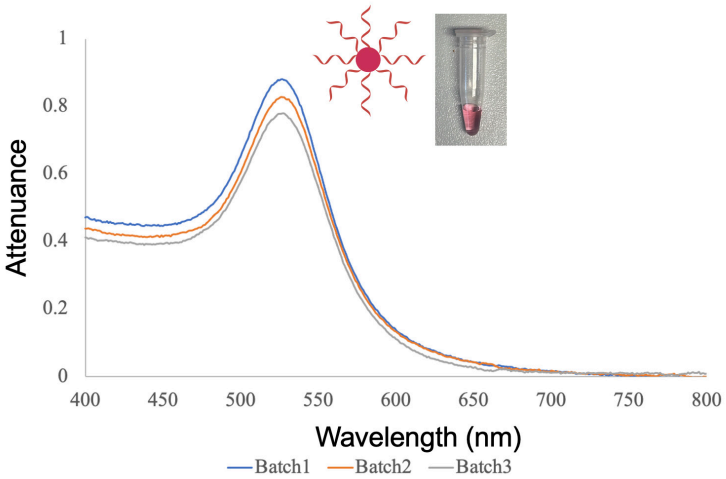

Figure S2. UV-Vis spectra of three different batches of Au nanoprobes obtained with a oligonucleotide:AuNPs ratio of 1000.

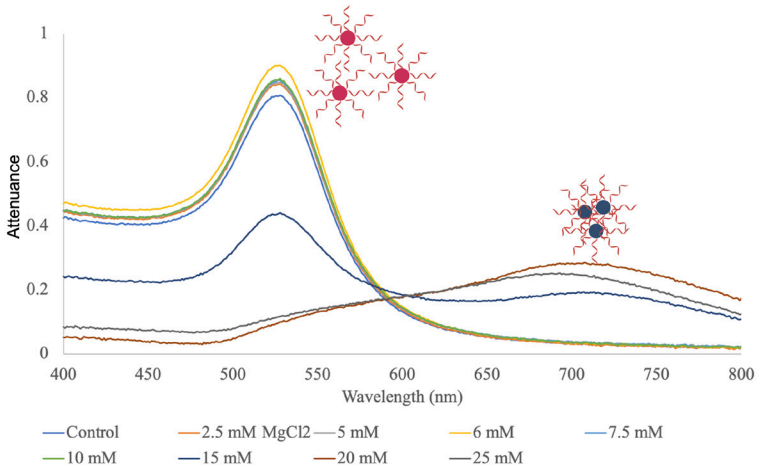

Figure S3. UV-Vis spectra analysis of the Au nanoprobe ratio 1000 incubated with $MgCl_2$ at concentrations up to 25 mM.

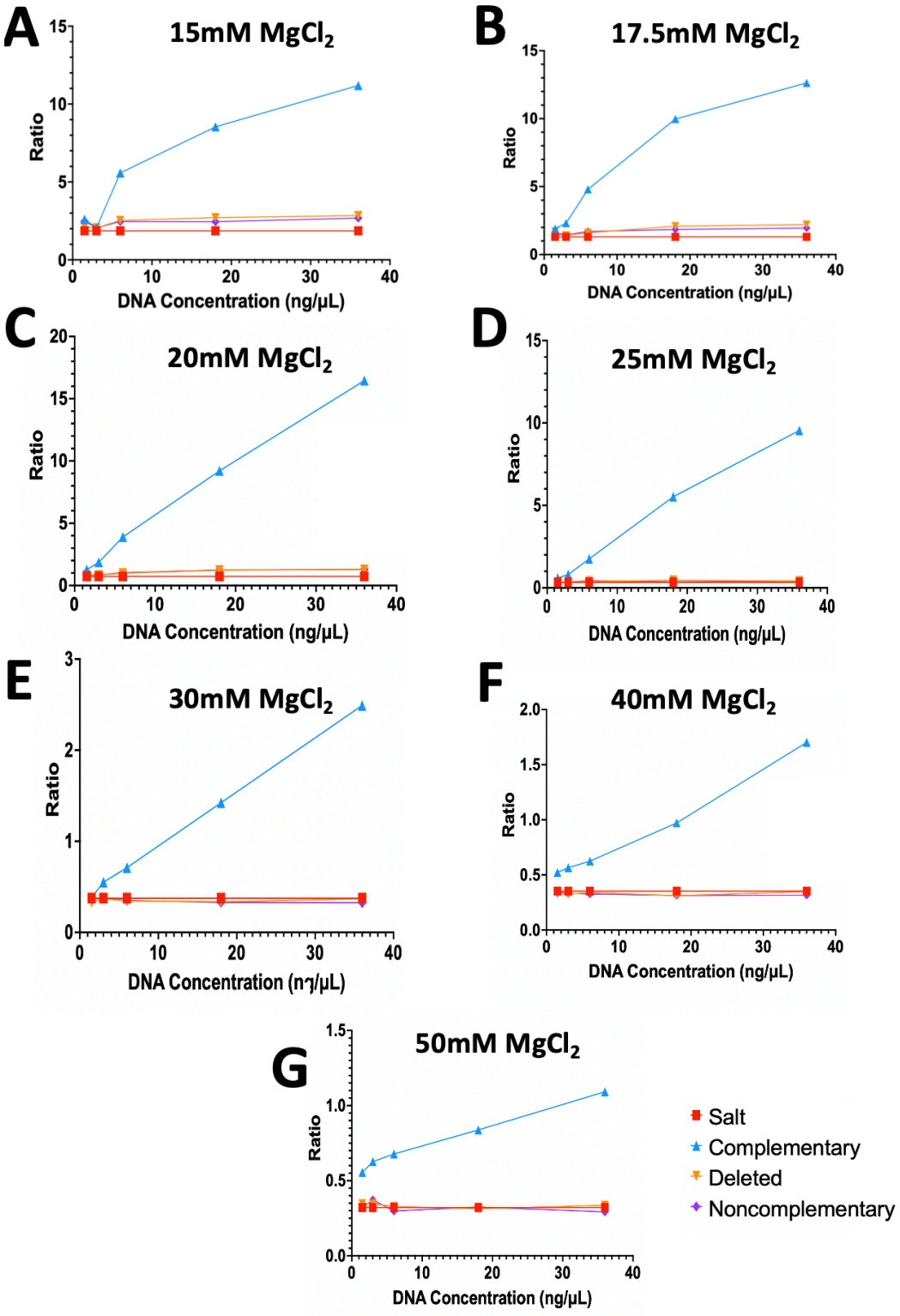

Figure S4. DNA concentration dependent effect of the AbsNon-Agg/AbsAgg ratio for 35 nm Au nanoprobes using three different targets: totally complementary (blue points and lines), deleted/noncomplementary (orange points and lines) and totally noncomplementary (purple points and lines) tested at different $MgCl_2$ concentrations: 15 mM (A), 17.5mM (B), 20mM(C), 25 mM (D), 30 mM (E), 40mM (F) and 50mM(G).

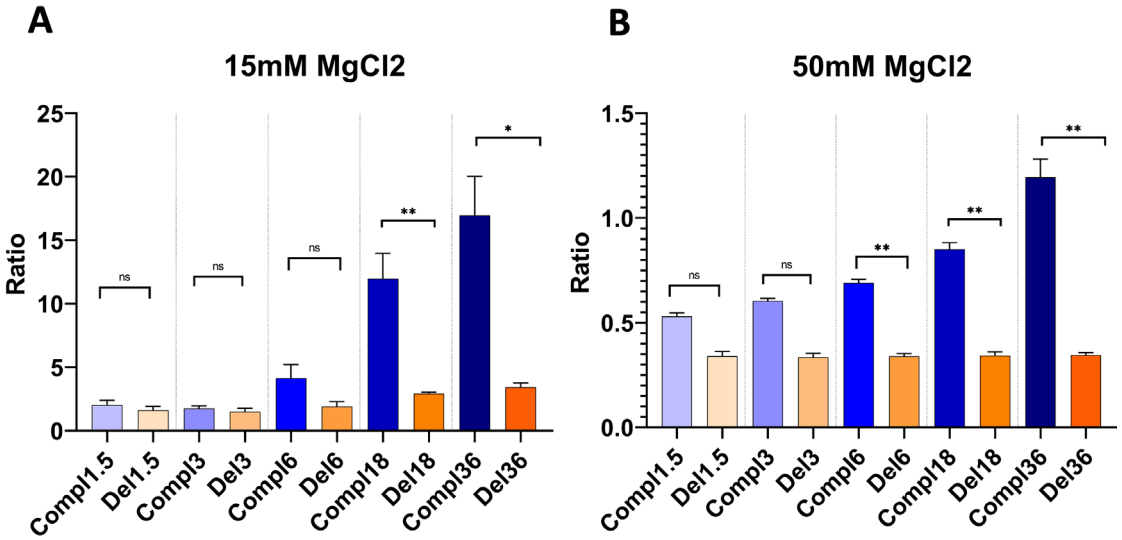

Figure S5. The bar graphs represent differences in AbsNon-Agg/AbsAgg ratios between complementary normal DNA (purple bar) and deleted/noncomplementary DNA (Orange lines) targets tested at different $MgCl_2$ concentrations: at 15 mM (A) and 50 mM(B). One asterisk indicating $p \leq 0.05$, two $p \leq 0.01$, three $p \leq 0.001$ and four asteriks indicating $p \leq 0.0001$ in cases of statistical significance.