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# DNA Aptamer against SARS-CoV-2 nucleocapsid protein

SKU# **APT-046**: DNA Aptamer against SARS-CoV-2 nucleocapsid protein

## Background

The SARS-CoV-2 nucleocapsid (N) protein is an abundant RNA-binding protein critical for viral genome packaging to form ribonucleoprotein structures enclosed within the viral capsid. In addition to its interactions with RNA, N protein forms protein-protein interactions with the virus membrane protein (M) during the process of viral assembly. N protein also has additional functions in manipulating the cell cycle of the host cell. The N protein is highly immunogenic.

**Aptamer type:** DNA aptamer

**Aptamer length:** 76 bp

**Affinity KD:**  $0.57 \pm 0.13$  nM

## Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-046-10	Single strand DNA, lyophilized powder	10 nmol
APT-046-30	Single strand DNA, lyophilized powder	30 nmol

- Store at  $-20^{\circ}$ ; reagents are guaranteed stable for 12 months when properly stored.

## References

Kang, J., et al., Ultrasensitive Detection Platform of Disease Biomarkers Based on Recombinase Polymerase Amplification with H-Sandwich Aptamers. *Analytical chemistry*, 2021, 93(2): 992–1000.