

## **DATA SHEET**

Protein Name	
Nucleocapsid [N] Protein	Protein ID: SARS-CoV2 Nucleocapsid [N] Protein. Catalog# 103
	Fusion tag: Poly-Histidine-tag at C-Terminus
Accession# QHD43423.2	<b>Description:</b> The size of SARS-CoV-2 genome is about 30kb that encodes four structural proteins include spike (S) protein, envelope (E)
Source: Severe acute respiratory syndrome	protein, membrane (M) protein, and nucleocapsid (N) protein (1). Among
coronavirus 2 (SARS-CoV-2).	these structural proteins, the primary functions of N protein are binding
A synthetic construct encoding the SARS-	nucleocapsid structure or ribonucleoprotein (RNP) complex (2).
CoV-2 Nucleocapsid [N] Protein (Methionine	
1-Alanine 419) was expressed with a C-	As N protein is a highly immunogenic and abundantly expressed protein
terminus poly-histidine tag.	during infection (3), it is frequently used in vaccine development and serological assays. Thus, N protein is an important antigen for SARS-
Expression Host: E. coli	CoV2 which participate in RNA package and virus particle release.
Malassian Watable 471 Da	
Molecular weight: 47 kDa	1.Zhao et al. Genomic characterization and epidemiology of 2019 novel coronavirus; implications for virus origins and recentor hinding. Langet
Supplied in buffer: 25 mM Phosphate buffer	(London, England) 2020;395:565–574.
[pH 8.0] + 150 mM NaCl and 0.1% Sodium	
Sarkosyl.	2. Shang et al. Characterization and application of monoclonal antibodies against N protein of SARS-coronavirus. Biochem. Biophys. Res. Commun. 2005; 336:110–117.
	3. Functional exhaustion of antiviral lymphocytes in COVID-19 patients. Cell. Mol. Immunol. 2020 doi: 10.1038/s41423-020-0402-2.

Coomassie-blue stained SDS-PAGE under reducing conditions.

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	240	
	165	
	125	
	93	
	72	
	57	
	42	
	31	-
	24	Name of Street o
	18	-
	15	No.
	8	