



# Recombinant Severe acute respiratory syndrome coronavirus 2 Nucleoprotein (N) (L230F) (Active)

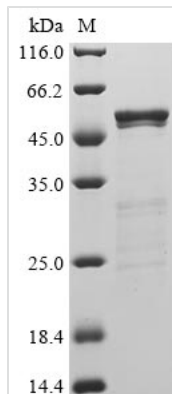
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-EP3325GMY(M9)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Abbreviation</b>        | Recombinant SARS-CoV-2 N protein (L230F) (Active)                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>             | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                  |
| <b>Uniprot No.</b>         | P0DTC9                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>                | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>      | Lyophilized from 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product Type</b>        | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Immunogen Species</b>   | Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Biological Activity</b> | ①Measured by its binding ability in a functional ELISA. Immobilized N (CSB-EP3325GMY(M9)) at 2 µg/ml can bind N Mouse Monoclonal Antibody(CSB-MA33255A2m), the EC <sub>50</sub> of N Mouse Monoclonal Antibody is 7.401-12.67 ng/ml.②Measured by its binding ability in a functional ELISA. Immobilized N (CSB-EP3325GMY(M9)) at 2 µg/ml can bind N Recombinant Antibody(CSB-RA33255A1GMY), the EC <sub>50</sub> of N Recombinant Antibody is 4.854-7.721 ng/ml. |
| <b>Purity</b>              | ≥ 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Sequence</b>            | MSDNGPQNQRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTA<br>SWFTALTQHGKEDLKFPGRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMK<br>DLSPRWYFYLLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNA<br>AIVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTS<br>ARMAGNGGDAALALLLDRLNQFESKMSGKGQQQQGQTVTKKSAAEASKKP<br>RQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKHWPQIAQFAP<br>SASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYKTF<br>PPTPEPKDKKKKADETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSAD<br>STQA |
| <b>Research Area</b>       | Microbiology                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Target Names</b>        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Expression Region</b>   | 1-419aa(L230F)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Notes</b>               | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tag Info</b>            | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Mol. Weight</b>         | 49.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



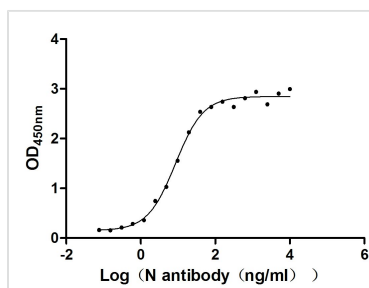
## Protein Length

## Full Length

### Image

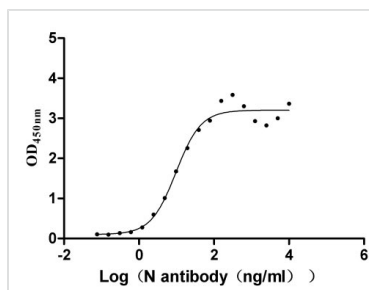


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



### Activity

Measured by its binding ability in a functional ELISA. Immobilized N (CSB-EP3325GM9) at 2 µg/ml can bind N Mouse Monoclonal Antibody(CSB-MA33255A2m), the EC<sub>50</sub> of N Mouse Monoclonal Antibody is 7.401-12.67 ng/ml.



### Activity

Measured by its binding ability in a functional ELISA. Immobilized N (CSB-EP3325GM9) at 2 µg/ml can bind N Recombinant Antibody(CSB-RA33255A1GM9), the EC<sub>50</sub> of N Recombinant Antibody is 4.854-7.721 ng/ml.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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