

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Nucleocapsid Protein [1 - 419] SARS CoV2**

**Enzyme description:-** N Protein [1 - 419]

**Clone number:-** DU 67726

**Source:-** Recombinant

**Expression system:-** *E. coli*

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 72,404.66 daltons

Average Mass 72,449.86 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 9.39

**Purity:-** 75 %

**Enzyme storage buffer:-**

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,  
0.1 % 2-mercaptoethanol, 0.03 % Brij-35

**Storage temperature:-** -70 °C

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## Clone Data Sheet

### Nucleocapsid Protein [1 – 419] SARS CoV2

**Protein** N Protein [1 - 419]

**Clone number** DU 67726

**Accession number** QHD43423.2

**Tags** N-terminal GST

**Bacterially  
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK  
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA  
EISMLEGAVLDIRYGVSRIAYS KDFETLKVDFLSKLP EMLKMFED  
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK  
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL  
FQGPLGSMSDNGPQNRNAPRITFGGSPSDSTGSNQNGERSGARSKQ  
RRPQGLPNNTASWFTALTQHGKEDLKFPRGQGVPIINTNSSPDDQI  
GYRRATRIRGGDGKMKDLSRWFYFYLLGTGPEAGLPYGANKDG  
IIWVATEGALNTPKDHIGTRNPANNAIIVLQLPQGTTLPGKFYAE  
GSRGGSQASSRSSSRNSTRNTPGSSRGTSPARMAGNGGDAAL  
ALLLDRLNQLKESKMSGKQQQQGQTVTKKSAEASKKPRQKRTA  
TKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKHWPQIAQFAP  
SASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLN  
KHIDAYKTFPPTPEPKKDKKKKADETOALPQRQKKQOTVTLLPAAD  
LDDFSKQLQOSMSSADSTQA

**Native sequence** Amino acids M1 – A419 (end).  
Residue M232 of the fusion protein is equivalent to M1 of the  
native enzyme. The GST tag is located at residues 1 – 220.

**Protease cleavage** PreScission (LEVLFQGP) residues 221 – 228