

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Nucleocapsid Protein [1 - 422] SARS CoV

Enzyme description:- SARS N Protein [1 - 422]

Clone number:- DU 67701

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 72, 803.77 daltons

Average Mass 72, 849.19 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 9.40

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

MRC PPU Reagents and Services

Clone Data Sheet

Nucleocapsid Protein [1 – 422] SARS CoV

Protein SARS N Protein [1 - 422]

Clone number DU 67701

Accession number NP_828858.1

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA
EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFED
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLEVL
FQGPLGSMNDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPK
QRRPQGLPNNTASWFTALTQHGKEELRFPRGQGVPIINTNSGPDDQ
IGYRRATRVRVGGDGKMKELSPRWYFYLLGTGPEASLPYGANKE
GIVWVATEGALNTPKDHIGTRNPNNNAATVLQLPQGTTLPKGFYA
EGSRGGSQASSRSSSRSRGNSRNSTPGSSRGNSPARMASGGGETA
LALLLLDRLNQLKSVSGKGOQOQOTVTKKSAEASKKPRQKRT
ATKQYNVTQAFGRRGPEQTQGNFGDQDLIROGTDYKHWPQIAQFA
PSASAFFGMSRIGMEVTPSGTWLTYHGAIKLDDKDPQFKDNVILL
NKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQPTVTLLPAA
DMDDFSRQLQNSMSGASADSTQA

Native sequence Amino acids M1 – A422 (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