

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of NSP9 [1 - 113] SARS CoV2

Enzyme description:- NSP9 [1 - 113]

Clone number:- DU 68510

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-

Monoisotopic 56,581.71 daltons

Average Mass 56,617.12 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.12

Purity:- 95 %

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

NSP9 [1 – 113] SARS CoV2

Protein NSP9 [1 - 113]

Clone number DU 68510

Accession number QHD43415.1

Tags N-terminal MBP

**Bacterially
expressed protein**

MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL
YFPTWDAVRYNGKLIAYPIAVEALSIIYNKDLLPNPPKTWEEIPA
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGGYDIK
DVGVDNAGAKAGLTFVLVDLIKKNHMNADTDYSIAEAAFNKGETAM
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELVKD
PRIAATMENAQKGEIMPNI PQMSAFWYAVRTAVINAASGRQTVDE
ALKDAQTNSSNNNNNNNNNNLGD~~DDDK~~VPEFLEVLFOGPLGSNN
ELSPVALRQMSCAAGTTQTACTDDNALAYNTTKGGRFVLALLSD
LQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPVKYLYFIK
GLNNLNRMVLSLAATVRLQ

Native sequence Amino acids N1 – Q113 (end).
Residue N404 of the fusion protein is equivalent to N1 of the native enzyme. The MBP tag is located at residues 1 – 367.

Protease cleavage Enterokinase (DDDDK) residues 384 – 388
PreScission (LEVLFOGP) residues 393 – 400