

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of ORF9A [1 - 97] SARS CoV2

Enzyme description:- ORF9A [1 - 97]

Clone number:- DU 68492

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 37,596.40 daltons

Average Mass 37,620.83 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.88

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, 0.2 mM PMSF, 1 mM Benzamidine

Storage temperature:- -70 °C

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Clone Data Sheet

ORF9A [1 – 97] SARS CoV2

Protein ORF9A [1 - 97]

Clone number DU 68492

Accession number MN908947.3

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA
EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFED
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLEVL
FQGPLGSM**DPKISEMHPALRLVDPQIQ**LAVTRMENA**VGRDQNNVGP**
KVYPIILRLGSPLSL**MARKTLNSLEDKAFQ**LTP**IAVQMTKLATT**
EELPDEFVVVTVK

Native sequence Amino acids M1 – K97 (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