

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of ORF9B [1 - 73] SARS CoV2

Enzyme description:- ORF9B [1 - 73]

Clone number:- DU 68493

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 34, 850.79 daltons

Average Mass 34, 873.82 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.75

Purity:- 80 %

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

ORF9B [1 – 73] SARS CoV2

Protein ORF9B [1 - 73]

Clone number DU 68493

Accession number MN908947.3

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKK
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA
EISMLEGAVLDIRYGVSRIAYS KDFETLKVDFLSKLPEMLKMFED
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL
FQGPLGSMLSCYNFLKEQHCKASTQKGAEEAAVKPLLVP HHVVAT
VQEIQLOAAVGE LLLLLEWLAMAVMLLLLCCCLTD

Native sequence Amino acids M1 – D73 (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