

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

### **Preparation of NSP3 [743 - 1072] SARS CoV2**

**Enzyme description:-** NSP3 [743 - 1072]

**Clone number:-** DU 67768

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 64,046.98 daltons

Average Mass 64,088.68 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 6.73

**Purity:-** 85 %

**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**

**NSP3 [743 – 1072] SARS CoV2**

**Protein** NSP3 [743 - 1072]

**Clone number** DU 67768

**Accession number** QHD43415.1

**Tags** N-terminal GST

**Bacterially  
expressed protein**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKK  
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA  
EISMLEGAVLDIRYGVSRIAYS KDFETLKVDFLSKLPEMLKMFED  
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK  
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL  
FQGPLGSSLREVRTIKVFTTVDNINLHTQVVDMSTYGOQFGPTYL  
DGADVTKIKPHNSHEGKTFYVLPNDDTLRVEAFEYHTDPSFLG  
RYMSALNHTKKWKYPQVNGLTSIKWADNNCYLATALLTLOQIELK  
FNPPALQDAYRARAGEAANFCALILAYCNKTVGELGDVRETMSY  
LFQHANLDSCKRVLNVVCKTCGQQQTTLKGVEAVMYMGTLSYEQF  
KKGVQIPCTCGKQATKYLVOQESPFVMSAPPAQYELKHGTFTCA  
SEYTGNYQCGHYKHITSKETLYCIDGALLTKSSEYKGPITDVFYK  
ENSYTTTIKPVTYKLDGVVCT

**Native sequence** Amino acids S743 – T1072 (end residue G1945).  
Residue S232 of the fusion protein is equivalent to S743 of the  
native enzyme. The GST tag is located at residues 1 – 220.

**Protease cleavage** PreScission (LEVLFGQP) residues 221 - 228