

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

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

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

**Clone number:-** DU 67769

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 81,451.71 daltons

Average Mass 81,503.43 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.64

**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 67769

**Accession number** QHD43415.1

**Tags** N-terminal MBP

**Bacterially  
expressed protein**

MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE  
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL  
YPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA  
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGYDIK  
DVGVDNAGAKAGLTFVLVDLIKKNHMNADTDYSIAEAAFNKGETAM  
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA  
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYYEELVKD  
PRIAATMENAQKGEIMPNIPOMSAFWYAVRTAVINAASGRQTVDE  
ALKDAQTNSSNNNNNNNNNNLGDGDDDKVPEFLEVLFGQPLGSSSL  
**REVRTIKVFTTVDNINLHTQVVMSMTYGQQFGPTYLDGADVTKI**  
**KPHNSHEGKTFYVLPNDDTLRVEAFEYHHTDPSFLGRYMSALNH**  
**TKKWKYPQVNGLTSIKWADNNCYLATALLTLOQIELKFNPPALQD**  
**AYYRARAGEAANFCALILAYCNKTVGELGDVRETMSYLFQHANLD**  
**SCKRVLNVCKTCGQQQTTLKGVEAVMYMGTLSEYQFKKGVQIPC**  
**TCKGQATKYLVOQESPFVMSAPPAQYELKHGTFTCASEYTGNYQ**  
**CGHYKHITSKETLYCIDGALLTKSSEYKGPITDVFYKENSYTTTI**  
**KPVTYKLDGVVCT**

**Native sequence** Amino acids S743 – T1072 (end residue G1945).  
Residue S404 of the fusion protein is equivalent to S743 of the  
native enzyme. The MBP tag is located at residues 1 – 367.

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