

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

### **Preparation of NSP7 [1 - 83] SARS CoV2**

**Enzyme description:-** NSP7 [1 - 83]

**Clone number:-** DU 68505

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 36,063.98 daltons

Average Mass 36,040.41 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.60

**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

*MRC PPU Reagents and Services*

**Clone Data Sheet**

**NSP7 [1 – 83] SARS CoV2**

**Protein** NSP7 [1 - 83]

**Clone number** DU 68505

**Accession number** QHD43415.1

**Tags** N-terminal GST

**Bacterially expressed protein** MSPILGYWKIKGLVQPTRLLLEYLEEKYEHLIERDEGDKWRNKK  
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA  
EISMLEGAVLDIRYGVSR IAYSKDFETLKVDFLSKLPEMLKMFED  
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK  
KRIEAIPOIDKYLKSSKYIAWPLOGWQATFGGDHPPKSDLEVLF  
QGPLGSS**SKMSDVKCTSVVLLSVLQQLRVESSSKLWAQCVQLHNDI**  
**LLAKDTTEAF EKMSVLLSVLLSMQGAVDINKLCEEMLDNRATLQ**

**Native sequence** Amino acids S1 – Q83 (end).  
Residue S232 of the fusion protein is equivalent to S1 of the native enzyme. The GST tag is located at residues 1 – 220.

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