

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of NSP15 [1 - 346] SARS CoV2**

**Enzyme description:-** NSP15 [1 - 527]

**Clone number:-** DU 66419

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 65,595.53 daltons

Average Mass 65,637.56 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.30

**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

### NSP15 [1 – 346] SARS CoV2

**Protein** NSP15 [1 - 346]

**Clone number** DU 66419

**Accession number** QHD43415.1

**Tags** N-terminal GST

**Bacterially expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK  
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA  
EISMLEGAVLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFED  
RLCHKTYLNGDHVTHPDFMFLYDALDVVLYMDPMCLDAFPKLVCFK  
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL  
FQGPLGSSLENVAFNVVNGHFDGQQGEVPSIINNTVYTKVDGVD  
VELFENKTTLPVNVAFELWAKRNIKPVPEVKILNNLGVDIAANTV  
IWDYKRDAPAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDG  
QVDLFRNARNGVLIITEGSVKGLQPSVGPQASLNGVTLIGEAVKT  
QFNYYKKVDGVVQQLPETYFTQSRNLQEFKPRSOMEIDFLELAM  
D E F I E R Y K L E G Y A F E H I V Y G D F S H S Q L G G L H L L I G L A K R F K E S P F E  
L E D F I P M D S T V K N Y F I T D A Q T G S S K C V C S V I D L L L D D F V E I I K S Q  
D L S V V S K V V K V T I D Y T E I S F M L W C K D G H V E T F Y P K L Q

**Native sequence** Amino acids S1 – Q346 (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