

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

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

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

**Clone number:-** DU 67734

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 83,000.25 daltons

Average Mass 83,052.31 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 4.93

**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 67734

**Accession number** QHD43415.1

**Tags** N-terminal MBP

**Bacterially expressed protein**

MKIEEGKLVIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE  
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL  
YPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA  
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGYDIK  
DVGVDNAGAKAGLTFVLVDLIKNKHMNADTDYSIAEAAFNKGETAM  
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA  
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYYYEELVKD  
PRIAATMENAQKGEIMPNIPOMSAFWYAVRTAVINAASGRQTVDE  
ALKDAQTNSSNNNNNNNNNNLGD~~DDDD~~KVPEFLEVLFGQPLGSSL  
**ENVAFNVVNKGHFDGQOGEVPSIINNTVYTKVDGVDVELFENKT**  
**TLPVNVAFELWAKRNIKPVPEVKILNNLGVDIAANTVIWDYKRDA**  
**PAHISTIGVCSMTDIAKKPTETICAPLTVFFDGRVDGQVDLFRNA**  
**RNGVLITEGSVKGLQPSVGPQASLNGVTLIGEAVKTFNYYKKV**  
**DGVVQQLPETYFTQSRNLQEFKPRSOMEIDFLELAMDEFIERYKL**  
**EGYAFEHIVYGDFSHSQLGGLHLLIGLAKRFKESPFELEDFIPMD**  
**STVKNYFITDAQTGSSKCVCSVIDLLLDDFVEI IKSQDLSVVSKV**  
**VKVTIDYTEISFMLWCKDGHVETFYPKLQ**

**Native sequence** Amino acids S1 – Q346 (end).  
Residue S404 of the fusion protein is equivalent to S1 of the native enzyme. The MBP tag is located at residues 1 – 367.

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