

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of NSP14 [1 - 527] SARS CoV2**

**Enzyme description:-** NSP14 [1 - 527]

**Clone number:-** DU 67720

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 103,987.75 daltons

Average Mass 104,054.58 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 6.00

**Purity:-** 70 %

**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**

### **NSP14 [1 – 527] SARS CoV2**

**Protein** NSP14 [1 - 527]

**Clone number** DU 67720

**Accession number** QHD43415.1

**Tags** N-terminal MBP

**Bacterially  
expressed protein**

MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE  
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL  
YPFTWDAVRYNGKLIAYPIAVEALSIIYNKDLLPNPPKTWEEIPA  
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENKGYDIK  
DVGVDNAGAKAGLTFVLVDLIKKNHMNADTDYSIAEAAFNKGETAM  
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA  
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYYYEELVKD  
PRIAATMENAQKGEIMPNIPOMSAFWYAVRTAVINAASGRQTVDE  
ALKDAQTNSSNNNNNNNNNNLGDGDDDKVPEFLEVLFGPLGSAE  
**NVTGLFKDCSKVITGLHPTQAPTHLSVDTKFKTEGLCVDIPGIPK**  
**DMTYRRLISMMGFKMNYQVNGYPNMFITREEAIRHVRWIGFDVE**  
**GCHATREAVGTNLPLQLGFSTGVNLVAVPTGYVDTPNNTDFSRVS**  
**AKPPPGDQFKHLIPLMYKGLPWNVVRKIVQMLSDTLKNLSDRVV**  
**FVLWAHGFELTSMKYFVKIGPERTCCLCDRRATCFSTASDTYACW**  
**HHSIGFDYVYNPFMIDVQQWGFSTGNLQSNHDLVCQVHGNAHVASC**  
**DAIMTRCLAVHECFVKRVDWTIEYPIIGDELKINAACRQVQHMVV**  
**KAALLADKFPVLHDIIGNPKAIKCVPOADVEWKFYDAQPCSDKAYK**  
**IEELFYASYATHSDKFTDGVCLFWNCNVDRYPANSIVCRFDTRVLS**  
**NLNLPGCDGGSLYVNKHAFHTPAFDKSAFVNLKQLPFFYYSDSPC**  
**ESHGKQVVSIDIDYVPLKSATCITRCNLGGAVCRHHANEYRLYLDA**  
**YNMMISAGFSLWVYKQFDTYNLWNTFTRLQ**

**Native sequence** Amino acids A1 – Q527 (end).  
Residue A404 of the fusion protein is equivalent to A1 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