

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

### **Preparation of ORF6 [1 - 61] SARS CoV2**

**Enzyme description:-** ORF6 [1 - 61]

**Clone number:-** DU 68495

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 51, 479.20 daltons

Average Mass 51, 511.46 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 4.80

**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

### ORF6 [1 – 61] SARS CoV2

**Protein** ORF6 [1 - 61]

**Clone number** DU 68490

**Accession number** QHD43420.1

**Tags** N-terminal MBP

**Bacterially  
expressed protein**

MKIEEGKLVWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE  
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL  
YPFTWDVAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA  
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGYDIK  
DVGVDNAGAKAGLTFVLVDLIKKNHMNADTDYSIAEAAFNKGETAM  
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA  
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELVKD  
PRIAATMENAQKGEIMPNIPOMSAFWYAVRTAVINAASGRQTVDE  
ALKDAQTNSSNNNNNNNNNNLGD~~DDDK~~VPEFLEVLFQGPLGSMF  
**HLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIKNLSKSLTEN**  
**KYSQLDEEQPMEID**

**Native sequence** Amino acids M1 – D61 (end).  
Residue M404 of the fusion protein is equivalent to M1 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