

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

### **Preparation of ORF10 [1 - 38] SARS CoV2**

**Enzyme description:-** ORF10 [1 - 38] SARS CoV2

**Clone number:-** DU 67615

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 48,657.61 daltons

Average Mass 48,688.14 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 4.90

**Purity:-** 75 %

**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, 0.2 mM PMSF, 1 mM Benzamidine

**Storage temperature:-** -70 °C

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## Clone Data Sheet

### ORF10 [1 – 38] SARS CoV2

**Protein** ORF10 [1 - 38]

**Clone number** DU 67615

**Accession number** QHI42199.1

**Tags** N-terminal MBP

**Bacterially  
expressed protein**

MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLE  
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL  
YPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA  
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGYDIK  
DVGVDNAGAKAGLTFLVDLIKNKHMNADTDYSIAEAAFNKGETAM  
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA  
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYYEELVKD  
PRIAATMENAQKGEIMPNI PQMSAFWYAVRTAVINAASGRQTVDE  
ALKDAQTNSSNNNNNNNNNNLGD~~DDDK~~VPEFLEVLFQGPLGSMG  
**YINVFAPFTIYSLLLCRMNSRNYIAQVDVVNFNLT**

**Native sequence** Amino acids M1 – T38 (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