

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

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

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

**Clone number:-** DU 68490

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 34,074.47 daltons

Average Mass 34,096.71 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.37

**Purity:-** 50 %

**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 GST

**Bacterially expressed protein** MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK  
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA  
EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFED  
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK  
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGDHPPKSDLEVLV  
QGPLGSMFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLI IKN  
**LSKSLTENKYSQLDEEQPMEID**

**Native sequence** Amino acids M1 – D61 (end).  
Residue M232 of the fusion protein is equivalent to M1 of the  
native enzyme. The GST tag is located at residues 1 – 220.

**Protease cleavage** PreScission (LEVLFQGP) residues 221 – 228