

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 67614

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 31,252.87 daltons

Average Mass 31,273.39 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.91

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 67614

Accession number QHI42199.1

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA
EISMLEGAVLDIRYGVSRIAYS KDFETLKVDFLSKLP EMLKMFED
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK
KRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL F
QGPLGSMGYINVFAPFTIYSLLLCRMNSRNYIAQVDVVNFNLT

Native sequence Amino acids M1 – T38 (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