MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of ORF8 [1 - 121] SARS CoV2

Enzyme description:- ORF8 [1 - 121]

Clone number:- DU 68491

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-
Monoisotopic 40, 628.51 daltons
Average Mass 40, 655.17 daltons
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.62

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

Storage temperature:- –70 °C

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Clone Data Sheet

ORF8 [1 – 121] SARS CoV2

Protein	ORF8 [1 - 121]
Clone number	DU 68491
Accession number	QHD43422.1
Tags	N-terminal GST
Bacterially expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFED RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK KRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVLF QGPLGS**MKFLVFLGIITTVAAFHQECSLQSCTQHQPYVVDDPCPI HFYSKWYIRVGARKSAPLIELCVDEAGSKSPIQYIDIGNYTVSCL PFTINCQEPKLGSLVVRCSFYEDFLEYHDVRVVLDFI**
Native sequence	Amino acids M1 – I121 (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