

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Envelope Protein [1 - 75] SARS CoV2

Enzyme description:- Envelope Protein [1 - 75]

Clone number:- DU 68523

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 35,189.20 daltons

Average Mass 35,166.17 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.11

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

Envelope Protein [1 – 75] SARS CoV2

<u>Protein</u>	Envelope Protein [1 - 75]
<u>Clone number</u>	DU 68523
<u>Accession number</u>	QHD43418.1
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA EISMLEGAVLDIRYGVSRIAYSKDFETLKVDVFLSKLPEMLKMFED RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGDHPPKSDLEVLF <u>QGPLGSMYSFVSEETGTLIVNSVLLFLAFVVFLVTLAILTALRL</u> CAYCCNIVNLSLVKPSFYVYSRVKNLNSSRVPDLLV</p>
<u>Native sequence</u>	<p>Amino acids M1 – V75 (end). Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.</p>
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGP</u>) residues 221 – 228