

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Envelope Protein [1 – 76] SARS CoV

Enzyme description:- SARS E Protein [1 - 76]

Clone number:- DU 68502

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 35, 162.15 daltons

Average Mass 35, 185.17 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.76

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 – 76] SARS CoV

<u>Protein</u>	SARS E Protein [1 - 76]
<u>Clone number</u>	DU 68502
<u>Accession number</u>	NP_828854.1
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFED RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGDHPPKSDLEVL <u>QG</u>PLGSMYSFVSEETGTLIVNSVLLFLAFVVFLVTLAILTALRL CAYCCNIVNVSLVKPTVYVYSRVKNLNSSEGVPDLLV</p>
<u>Native sequence</u>	<p>Amino acids M1 – V76 (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