MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of NSP4 [386 - 500] SARS CoV2

Enzyme description:- NSP4 [386 - 500]

Clone number:- DU 75131

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-
Monoisotopic 40, 132.26 daltons
Average Mass 40, 158.39 daltons
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.72

Purity:- 85 %

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

NSP4 [386 – 500] SARS CoV2

Protein	NSP4 [386 - 500]
Clone number	DU 75131
Accession number	QHD43415.1
Tags	N-terminal GST
Bacterially expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFED RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK KRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVLF QGPLGS**STKHFYWFFSNYLKRRVVFNGVSFSTFEEAALCTFLLNK EMYLKLRSDVLLPLTQYNRYLALYNKYKYFSGAMDTTSYREAACC HLAKALNDFSNSGSDVLYQPPQTSITSAVLQ**
Native sequence	Amino acids S386 – Q500 (end residue). Residue S232 of the fusion protein is equivalent to S386 of the native enzyme. The GST tag is located at residues 1 – 220.
Protease cleavage	PreScission (LEVLFQGP) residues 221 - 228