

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of NSP8 [1 - 198] SARS CoV2

Enzyme description:- NSP8 [1 - 198]

Clone number:- DU 66416

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 48,673.74 daltons

Average Mass 48,705.25 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.83

Purity:- 95 %

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

NSP8 [1 – 198] SARS CoV2

Protein NSP8 [1 - 198]

Clone number DU 66416

Accession number QHD43415.1

Tags N-terminal GST

**Bacterially
expressed protein**

MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKK
FELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERA
EISMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPPEMLKMFED
RLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK
KRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL
QGPLGSAIASEFSSLPSYAAFATAQEAYEQAVANGDSEVVLK
KLKSLNVAKSEFDRDAAMQRKLEKMADQAMTQMYKQARSEDKRAKVT
SAMQTMLFTMLRKLNDALNNIINNARDGCVPLNIIPLTAAKLM
VVIPDYNTYKNTCDGTTFTYASALWEIQQVVDADSKIVQLSEISM
DNSPNLAWPLIVTALRANSVVKLQ

Native sequence Amino acids A1 – Q198 (end).
Residue A232 of the fusion protein is equivalent to A1 of the native enzyme. The GST tag is located at residues 1 – 220.

Protease cleavage PreScission (LEVLFQGP) residues 221 - 228