*MRC PPU Reagents and Services*

# Standard Operating Procedure

# Preparation of NSP8 [1 - 198] SARS CoV2

**Enzyme description:-** NSP8 [1 - 198]

**Clone number:-** DU 66418

**Source:-** Recombinant

**Expression system:-** *E. coli*

**Tag:-** N-terminal MBP

**Purification method**:- Amylose Resin

**Calculated molecular mass:-**
Monoisotopic 66, 078.48 daltons
Average Mass 66, 120.00 daltons
[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.01

**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 66418

**Accession number** QHD43415.1

**Tags** N-terminal MBP

**Bacterially expressed protein**

MKIEEGKLVIWINGDKGYNGLAEVGKKFEKDTGIKVTVEHPDKLE
EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL
YPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA
LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGKYDIK
DVGVDNAGAKAGLTFLVDLIKNKHMNADTDYSIAEAAFNKGETAM
TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA
SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELVKD
PRIAATMENAQKGEIMPNIPQMSAFWYAVRTAVINAASGRQTVDE
ALKDAQTNSSSNNNNNNNNNLGDDDDKVPEFLEVLFQGPLGS**AI
ASEFSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKS
EFDRDAAMQRKLEKMADQAMTQMYKQARSEDKRAKVTSAMQTMLF
TMLRKLDNDALNNIINNARDGCVPLNIIPLTTAAKLMVVIPDYNT
YKNTCDGTTFTYASALWEIQQVVDADSKIVQLSEISMDNSPNLAW
PLIVTALRANSAVKLQ**

**Native sequence** Amino acids A1 – Q198 (end).
Residue A404 of the fusion protein is equivalent to A1 of the native enzyme. The MBP tag is located at residues 1 – 367.

**Protease cleavage** Enterokinase (DDDDK) residues 384 – 388
PreScission (LEVLFQGP) residues 393 – 400