MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of ORF7B [1 - 43] SARS CoV2

Enzyme description:- ORF7B [1 - 43]

Clone number:- DU 67622

Source:- Recombinant

Expression system:- *E. coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-
Monoisotopic 49, 388.03 daltons
Average Mass 49, 419.18 daltons
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.77

Purity:- 80 %

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

ORF7B [1 – 43] SARS CoV2

Protein	ORF7B [1 - 43]
Clone number	DU 67622
Accession number	QJC19833.1
Tags	N-terminal MBP
Bacterially expressed protein	MKIEEGKLVIWINGDKGYNGLAEVGKKFEKDTGIKVTVEHPDKLE EKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKL YPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPA LDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGKYDIK DVGVDNAGAKAGLTFLVDLIKNKHMNADTDYSIAEAAFNKGETAM TINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAA SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELVKD PRIAATMENAQKGEIMPNIPQMSAFWYAVRTAVINAASGRQTVDE ALKDAQTNSSSNNNNNNNNNLGDDDDKVPEFLEVLFQGPLGS**MI ELSLIDFYLCFLAFLLFLVLIMLIIFWFSLELQDHNETCHA**
Native sequence	Amino acids M1 – A43 (end). Residue M404 of the fusion protein is equivalent to M1 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