

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Influenza C Virus NS2 [63 – 182]**

**Enzyme description:-** ICV NS2 [63 - 182]

**Clone number:-** DU 76145

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 57, 831.71 daltons

Average Mass 57, 867.92 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.06

**Purity:-** 80 %

**Enzyme storage buffer:-**

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA, 0.5 mM TCEP

**Storage temperature:-** -70 °C

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**Clone Data Sheet**

**Influenza C Virus NS2 [63 – 182]**

|   |   |
|---|---|
| <b><u>Protein</u></b>                       | ICV NS2 [63 - 182]  |
| <b><u>Clone number</u></b>                  | DU 76145  |
| <b><u>Species</u></b>                       | Influenza C virus (ICV) strain C/Johannesburg/1/66  |
| <b><u>Tags</u></b>                          | N-terminal MBP  |
| <b><u>Bacterially expressed protein</u></b> | MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKFP<br>QVAATGDGPDIIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAV<br>RYNGKLIAYPIAVEALSIIYNKDLLPNPPKTWEEIPALDKELKAKGKSA<br>LMFNLQEPYFTWPLIAADGGYAFKYENGYDIKDVGVNAGAKAGLTF<br>VDLIKKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGV<br>TVLPFTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAV<br>NKDKPLGAVALKSYYEELVKDPRIAATMENAQKGEIMPNI PQMSAFWYA<br>VRTAVINAASGRQTVDEALKDAQTNSSNNNNNNNNNNLGDDDDKVPEF<br><u>LEVLFQGPLGSEILRRSVDTS</u> <u>SLNKWPELKQEL</u> <u>ENVSDALKADSLWLPM</u><br><u>KSLSLYSKVS</u> <u>NQEPSSIPIGEMKNQILTRLKLI</u> <u>CSRLEKLDLNL</u> <u>SKAVL</u><br><u>GIQNS</u> <u>EDLILIIYNRDVCKNTILMIKSLCNSLI</u> |
| <b><u>Native sequence</u></b>               | Amino acids E63 – I82 (end residue) of ICV NS2 protein.<br>Residue E404 of the fusion protein is equivalent to E63 of the native enzyme. The MBP tag is located at residues 1 – 367.  |
| <b><u>Protease cleavage</u></b>             | PreScission ( <u>LEVLFQGP</u> ) residues 393 - 400  |