

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Influenza C Virus NS1 [1 – 246]**

**Enzyme description:-** ICV NS1 [1 - 246]

**Clone number:-** DU 76111

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 54, 540.39 daltons

Average Mass 54, 576.26 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 7.08

**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 NS1 [1 – 246]**

<b><u>Protein</u></b>	ICV NS1 [1 - 246]
<b><u>Clone number</u></b>	DU 76111
<b><u>Species</u></b>	Influenza C virus (ICV) strain C/Johannesburg/1/66
<b><u>Tags</u></b>	N-terminal GST
<b><u>Bacterially expressed protein</u></b>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL<u>FQGPLGS</u><b>MSDKTVKSTNLMAF</b> <b>VATKMLERQEDLDTCTEMQVEKMTSTKARLRTESSFAPRTWEDA IKDG</b> <b>ELLENGTILQTESPTMTPASVEMKGGKFPIDFAPSNIAPIGQNP IYLS P</b> <b>CIPNFDGNVWEATMYHHRGATLTKTMNCNCFQRTIWCHPNPSRMRLSYA</b> <b>FVLYCRNTKKICGYLIAKQVAGIETGIRKCFRCIKSGFVMATDEISLTI</b> <b>LQSIKSGAQLDPYWGNEKPDIDKTEAYMLSLREAGP</b></p>
<b><u>Native sequence</u></b>	<p>Amino acids M1 – P246 (end residue) of ICV NS1 protein. Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.</p>
<b><u>Protease cleavage</u></b>	PreScission ( <u>LEVL FQGP</u> ) residues 221 - 229