

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Influenza D Virus NS1 [64 – 243]**

**Enzyme description:-** IDV NS1 [64 - 243]

**Clone number:-** DU 75218

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 64, 561.85 daltons

Average Mass 64, 602.24 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.00

**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 D Virus NS1 [64 – 243]**

<b><u>Protein</u></b>	IDV NS1 [64 - 243]
<b><u>Clone number</u></b>	DU 75218
<b><u>Species</u></b>	Influenza D virus (IDV) strain D/bovine/Oklahoma/660/2013
<b><u>Tags</u></b>	N-terminal MBP
<b><u>Bacterially expressed protein</u></b>	MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKFP QVAATGDGPDIIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAV RYNGKLIAYPIAVEALSIIYNKDLLPNPPKTWEEIPALDKELKAKGKSA LMFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNDAGAKAGLTF VDLIKKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGV TVLPFTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAV NKDKPLGAVALKSYEEELVKDPRIAATMENAQKGEIMPNI PQMSAFWYA VRTAVINAASGRQTVDEALKDAQTNSSNNNNNNNNNNNLGDDDDKVPEF <u>LEVLFQGPLGS</u> <b>GREILGF<sup>T</sup>TIAALRKPEETHAVELGKSI<sup>I</sup>IYPLGGNPFY</b> <b>LSPCTIDTLYEPKLI<sup>R</sup>RQEEVLGVK<sup>Y</sup>RNCNCFVKTAELLV<sup>T</sup>DMGEI<sup>I</sup>IVLF</b> <b>CRNTEKPAYCLKNFRRGDDPEKSVRKILRIWRSGLVVA<sup>V</sup>DAESRDEIRR</b> <b>YKSGCETDPFWRREGATTGEVQELLGV<sup>I</sup>DKVEIQAGSSDGE<sup>L</sup>FD</b>
<b><u>Native sequence</u></b>	Amino acids G64 – D243 (end residue) of IDV NS1 protein. Residue G404 of the fusion protein is equivalent to G64 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