

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Influenza D Virus NS1 [1 – 243]**

**Enzyme description:-** IDV NS1 [1 - 243]

**Clone number:-** DU 75214

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Agarose

**Calculated molecular mass:-**

Monoisotopic 54, 173.50 daltons

Average Mass 54, 208.35 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.42

**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 [1 – 243]**

<b><u>Protein</u></b>	IDV NS1 [1 - 243]
<b><u>Clone number</u></b>	DU 75214
<b><u>Species</u></b>	Influenza D virus (IDV) strain D/bovine/Oklahoma/660/2013
<b><u>Tags</u></b>	N-terminal GST
<b><u>Bacterially expressed protein</u></b>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGSMSENKSVNTTNIRA <b>AISELALGAASWMDSSGLMTFEKMRKSAENSLRVEQVYEPRTWEDAVAE GREILGFTTIAALRKPEETHAVELGKSI IYPLGGNPFYLS PCTIDTLYE PKLIRQEEVLGVKYRNCNCFVKTAELLV TDMGEIIVLFCRNTEKPAYCL KNFRRGDDPEKSVRKILRIWRSGLVVAVDAESRDEIRRYKSGCETDPFW RREGATTGEVQELLGVIDKVEIQAGSSDGELFD</b></p>
<b><u>Native sequence</u></b>	<p>Amino acids M1 – D243 (end residue) of IDV 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