

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Influenza B Virus NS1 [12 – 281]**

**Enzyme description:-** IBV NS1 [12 - 281]

**Clone number:-** DU 75476

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 74, 999.93 daltons

Average Mass 75, 046.69 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.28

**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 B Virus NS1 [12 – 281]

<b><u>Protein</u></b>	IBV NS1 [12 - 281]
<b><u>Clone number</u></b>	DU 75476
<b><u>Species</u></b>	Influenza B virus (IBV) strain B/Florida/04/2006
<b><u>Tags</u></b>	N-terminal MBP
<b><u>Bacterially expressed protein</u></b>	MMKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPKAFQDKLYPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNAGAKAGLTF LVDLIKKNHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVN YGVTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELVKDPRIAAATMENAQKGEIMPNI PQMSAFWYAVRTAVINAASGRQTVDEALKDAQTNSSSNNNNNNNNNNLGDDDDKVPEFLEVLFGQPLGSGVPGATNATINFEAGILECYERLSWQRALDYPGQDRLNRLKRKLESRIKTHNKSEPESEKRMSEERKAIGVKMMKVLLFMNPSAGIEGFEPYCMKSSNSNCPKYNWTDYPSTPGRCLDDIEEEPDDVDGPTEIVLRDMNNKDARQKIKEEVNTQKEGKFRITIKRDIRNVLSLRVLVNGTFLKHPNGYKSLSTLHRLNAYDQSGRLVAKLVATDDLTVEDEEDGHRILNSLFERLNEGHSKPIRAAETA VGVLSQFGQEHRLSPEEGDN
<b><u>Native sequence</u></b>	Amino acids V12 – N281 (end residue) of IBV NS1 protein. Residue V404 of the fusion protein is equivalent to V12 of the native enzyme. The MBP tag is located at residues 1 – 367.
<b><u>Protease cleavage</u></b>	PreScission ( <u>LEVLFGQP</u> ) residues 393 - 400