

## *MRC PPU Reagents and Services*

### **Standard Operating Procedure**

#### **Preparation of Influenza A Virus M1 [1 – 253]**

**Enzyme description:-** IAV M1 [1 - 253]

**Clone number:-** DU 70828

**Source:-** Recombinant

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

**Tag:-** N-terminal MBP

**Purification method:-** Amylose Resin

**Calculated molecular mass:-**

Monoisotopic 72, 086.67 daltons

Average Mass 72, 132.18 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.74

**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 A Virus M1 [1 – 253]

<b><u>Protein</u></b>	IAV M1 [1 - 253]
<b><u>Clone number</u></b>	DU 70828
<b><u>Species</u></b>	Influenza A virus (IAV) strain A/Puerto Rico/8/1934(H1N1) ('PR8')
<b><u>Tags</u></b>	N-terminal GST
<b><u>Bacterially expressed protein</u></b>	<p>MKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKFP QVAATGDGPDIIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAV RYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSA LMFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNAGAKAGLTF VDLIKKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGV TVLPFTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAV NKDKPLGAVALKSYEEELVKDPRIAATMENAQKGEIMPNI PQMSAFWYA VRTAVINAASGRQTVDEALKDAQTNSSNNNNNNNNNNLGDGDDDKVPEF <u>LEVLFQGPLGSM</u><b><u>LEVLMEWLKTRPILSPLTKGILGFVFTLTVP</u></b><u>SERGLQRRRFVQNALNGN</u> <b><u>GD</u></b><u>PNNMDKAVKLYRKLKREITFHGAKEISLSYSAGALASCMGLIYNRMG</u> <b><u>AVTTEVA</u></b><u>FGFLVCATCEQIADSQHRSHRQMVTTTNP</u><u>LI</u><b><u>RHENRMV</u></b><u>LASTT</u> <b><u>AKAMEQ</u></b><u>MAGSSEQAAEAMEVASQARQMVQAMRTIGTHPSSSAGLKN</u><u>DLL</u> <b><u>ENLQAYQ</u></b><u>KRMGVQMQRFK</u></p>
<b><u>Native sequence</u></b>	Amino acids M1 – K253 (end residue) of IAV M1 protein. Residue M404 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.
<b><u>Protease cleavage</u></b>	PreScission ( <u>LEVLFQGP</u> ) residues 393 - 400