

## *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 70821

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Sepharose

**Calculated molecular mass:-**

Monoisotopic 54, 681.93 daltons

Average Mass 54, 717.43 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 8.01

**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 70821
<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>	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL <u>FQGPLGS</u> <b>MSLLTEVETYVLSI</b> <b>IPSGPLKAEIAQRLEDV</b> FAGKNTDLEVLMEWLKTRPILSPLTKGILGFV <b>F</b> TLTVPSEGLQRRRFVQNALNGNGDPNNMDKAVKLYRKLKREITFHGA <b>KEISLSYSAGALASCMGLIYNRMGAVTTEVA</b> FGLVCATCEQIADSQHR <b>HRQMVT</b> TTNPLIRHENRMVLASTTAKAMEQMAGSSEQAAEAMEVASQAR <b>QMVQAMRTIG</b> THPSSSAGLKNDLLENLQAYQKRMGVQMQRFK
<b><u>Native sequence</u></b>	Amino acids M1 – K253 (end residue) of IAV M1 protein. Residue M232 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>LEVL</u> FQGP) residues 221 - 229