

# *MRC PPU Reagents and Services*

## **Standard Operating Procedure**

### **Preparation of Influenza C Virus M1 [1 – 235]**

**Enzyme description:-** ICV M1 [1 - 235]

**Clone number:-** DU 76125

**Source:-** Recombinant

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

**Tag:-** N-terminal GST

**Purification method:-** GSH Sepharose

**Calculated molecular mass:-**

Monoisotopic 52, 939.01 daltons

Average Mass 52, 973.44 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 7.20

**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 C Virus M1 [1 – 235]**

<b><u>Protein</u></b>	ICV M1 [1 - 235]
<b><u>Clone number</u></b>	DU 76125
<b><u>Species</u></b>	Influenza C virus (ICV) strain C/Johannesburg/1/66
<b><u>Tags</u></b>	N-terminal GST
<b><u>Bacterially expressed protein</u></b>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGS<b>MAHEILIAEAEAF</b> <b>KNVAPETR TAI I SAITGGKSACKSAAKLIKNEHLPLMSG EATTMHIVMR</b> <b>CLYPEIKPWKKASDMLNKATSSLKKSEGRDIRKQMKAAAGDFLGVESMMK</b> <b>MRAFRDDQIMEMVEEVYDHPDDYTPDIRIGTITAWLRCKNKKSERYSN</b> <b>VSESGRTALKIHEVRKASTAMNEIAGITGLGEEALSLQRQTESLAILCN</b> <b>HTFGSNIMRPHLEKAIKGV EGRVGE</b></p>
<b><u>Native sequence</u></b>	<p>Amino acids M1 – E235 (end residue is K242) of ICV 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.</p>
<b><u>Protease cleavage</u></b>	PreScission ( <u>LEVLFQGP</u> ) residues 221 - 229