

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza C Virus NS2 [1 – 182]

Enzyme description:- ICV NS2 [1 - 182]

Clone number:- DU 76113

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 47, 565.48 daltons

Average Mass 47, 596.35 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.17

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 NS2 [1 – 182]

<u>Protein</u>	ICV NS2 [1 - 182]
<u>Clone number</u>	DU 76113
<u>Species</u>	Influenza C virus (ICV) strain C/Johannesburg/1/66
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSRAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVLVLFQGPLGSM SDKTVKSTNLMAF VATKMLERQEDLDTCTEMQVEKMKSTKARLRTESSFAPRTWEDA IKDEILRRSVDTSSLNKPWELKQELENVSDALKADSLWLPKSLSLYSKVS NQEPSSIPIGEMKNQILTRLKLCRLEKLDLNLKAVLGIQNS EDLILIIYNRDVCKNTILMIKSLCNSLI
<u>Native sequence</u>	Amino acids M1 – I182 (end residue) of ICV NS2 protein. Residue M232 of the fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGP</u>) residues 221 - 229