

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza C Virus NP [1 – 556]

Enzyme description:- ICV NP [1 - 556]

Clone number:- DU 76118

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 89, 506.39 daltons

Average Mass 89, 563.39 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 9.09

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

MRC PPU Reagents and Services

Clone Data Sheet

Influenza C Virus NP [1 – 556]

<u>Protein</u>	ICV NP [1 - 556]
<u>Clone number</u>	DU 76118
<u>Species</u>	Influenza C virus (ICV) strain C/Johannesburg/1/66
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGSMSDRRQNRKTPDEQ RKANALIINENIEAYIAICKEVGLNGDEMLILENGIAIEKAIRICCDGK YQEKREKKAREAQRADSNFNADSIGIRLVKRAGSGTNIYHAVVELTSR SRIVQILKSHWGNELNRAKIAGKRLGFSALFASNLEAIIYQGRNAARR NGSAELFTLTQGAGIETRYKWIMEKHIGIGVLIADAKGLINGKREGKKG VDANVKLRAGTTGSP LERAMQGI EKKA FPGPLRALARRVVKANYNDARE ALNVIAEASLLLKPQITNKMTMPWCMWLAARLT LKDEFANFCAYAGRRA FEVFNIA MEKIGICSFQGTIMNDEIESIEDKAQVLMMACFGLAYEDFS LVSAMVSHPLKLRNRMKIGNFRVGEKVSTVLSPLLRFTRWAEFAQRFAL QTNTSREGAQISNSAVFAVERKITTDVQRVEELLNKVQAHED EPLQTLY KKVREQISII GRNKSEIKEFLGSSMYDLNDQEKQNPINFRSGAHPFFFE FDPDYNPIRVKRPKKPIAKRNSNISRLEEEGMDENSEIGQAKKMKPLDQ LAK</p>
<u>Native sequence</u>	<p>Amino acids M1 – K556 (end residue) of ICV NP 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>
<u>Protease cleavage</u>	PreScission (<u>LEVLFQGP</u>) residues 221 - 229