

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza B Virus NS1 [12 – 281]

Enzyme description:- IBV NS1 [12 - 281]

Clone number:- DU 75471

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 57, 464.15 daltons

Average Mass 57, 500.74 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.03

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 B Virus NS1 [12 – 281]

<u>Protein</u>	IBV NS1 [12 - 281]
<u>Clone number</u>	DU 75471
<u>Species</u>	Influenza B virus (IBV) strain B/Florida/04/2006
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPHYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL<u>FQGPLGS</u>VGPGATNATINFEA GILECYERLSWQRALDYPGQDRLNRLKRLKLESRIKTHNKSEPESEKRM SL EERKAIGVKMMKVLLFMNPSAGIEGFEPYCMKSSSNSNCPKYNWTDYPS TPGRCLDDIEEEPDDVDGPTEIVLRDMNKNKDARQKIKEEVNTQKEGKFR LTIKRDIRNVLSLRVLVNGTFLKHPNGYKSLSTLHRLNAYDQSGRLVAK LVATDDLTV EDEEDGHRILNSL FERLNEGHSKPIRAAETA VGVLSQFGQ EHRLSPEEGDN</p>
<u>Native sequence</u>	<p>Amino acids V12 – N281 (end residue) of IBV NS1 protein. Residue V232 of the fusion protein is equivalent to V12 of the native enzyme. The GST tag is located at residues 1 – 220.</p>
<u>Protease cleavage</u>	PreScission (<u>LEVL FQGP</u>) residues 221 - 229