

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza B Virus M1 [1 – 248]

Enzyme description:- IBV M1 [1 - 248]

Clone number:- DU 75475

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-

Monoisotopic 71, 739.33 daltons

Average Mass 71, 784.85 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.90

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 M1 [1 – 248]

<u>Protein</u>	IBV M1 [1 - 248]
<u>Clone number</u>	DU 75475
<u>Species</u>	Influenza B virus (IBV) strain B/Florida/04/2006
<u>Tags</u>	N-terminal MBP
<u>Bacterially expressed protein</u>	MMKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKF PQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPKAFQDKLYPFTWDA VRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIIPALDKELKAKGKS ALMFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNDAGAKAGLTF LVDLIKKNHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYG VTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEA VNKDKPLGAVALKSYEEELVKDPRIAAATMENAQKGEIMPNI PQMSAFWY AVRTAVINAASGRQTVDEALKDAQTNSSSNNNNNNNNNNLGDDDDKVPE <u>FLEVLFGQPLGSM</u> <u>SLFGDTIAYLLSLTEDGEGKAELAEKLHCWFGGKEF</u> <u>DLDSALEWIKNKRC</u> <u>LDIQKALIGASICFLKPKDQERKRRFITEPLSGM</u> <u>GTTATKKKGLILAERKMRCV</u> <u>SFHEAFEIAEGHESALLYCLMVMYLN</u> <u>GNYSMQVKLGTLCALCEKQASHSHRAHSRAARS</u> <u>SVPGVRREMQMVSAMN</u> <u>TAKTMNGMGKGEDVQKLAEE</u> <u>LQSNIGVLRSLGASQKNGEGIAKDVMEVL</u> <u>KQSSMGNSALVKKYL</u>
<u>Native sequence</u>	Amino acids M1 – L248 (end residue) of IBV M1 protein. Residue M404 of the fusion protein is equivalent to M1 of the native enzyme. The MBP tag is located at residues 1 – 367.
<u>Protease cleavage</u>	PreScission (<u>LEVLFGQP</u>) residues 393 - 400