

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza B Virus NP [1 – 560]

Enzyme description:- IBV NP [1 - 560]

Clone number:- DU 76481

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal MBP

Purification method:- Amylose Resin

Calculated molecular mass:-

Monoisotopic 105, 934.01 daltons

Average Mass 106, 001.16 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 7.89

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 NP [1 – 560]

<u>Protein</u>	IBV NP [1 - 560]
<u>Clone number</u>	DU 75481
<u>Species</u>	Influenza B virus (IBV) strain B/Florida/04/2006
<u>Tags</u>	N-terminal MBP
<u>Bacterially expressed protein</u>	MMKIEEGKLVIIWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPFTWDAVRYNGKLIAYPIAVEALSIIYNKDLLPNPPKTWEEIPALDKELKAKGKSALMFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNAGAKAGLTLVDLIKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELVKDPRIAAATMENAQKGEIMPNI PQMSAFWYAVRTAVINAASGRQTVDEALKDAQTNSSSNNNNNNNNNNLGDDDDKVPEFLEVLFGQPLGSMNSMNDIDGINTGTIDKTPEEITPGTSGTTRPIIRPATLAPPSNKRTRNPSPERATTSSEDDVGRKTQKKQTPTTEIKKSVYNMVVKLGEFYNQMMVKAGLNDDMERNLIQNAHAVERILLAATDDKKTEFQKKKNARDVKEGKEEIDHNKTGGTFYKMRDDKTIYFSPIRITFLKEEVKTMYKTMGSDGFSGLNHIMIGHSQMNDVCFORSKALKRVGLDPSLISTFAGSTIPRRSGATGVAIKGGGTLVAEAIIRFIGRAMADRGLLRDIKAKTAYEKILLNLKNKCSAPQOKALVDQVIGSRNPGIADIEDLTLLARSMVVVRPSVASKVVLPIISIIYAKIPQLGFNVVEEYSMVGYEAMALYNMATPVSILRMGDDAKDKSOLFFMSCFGAAYEDLRVLSALTGTEFKPRSALKCKGFHVPAKEQVEGMGAALMSIKLQFWAPMTRSGGNEVGGDGGSGQISCSVPFAVERPIALSQAARRMLSMNIEGRDADVGNLLKMMNDSMAKKTSGNAFIGKKMFQISDKNKTNPVEIPIKQTI PNFFFGRDTAEDYDDL DY
<u>Native sequence</u>	Amino acids M1 – Y560 (end residue) of IBV NP 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