

MRC PPU Reagents and Services

Standard Operating Procedure

Preparation of Influenza A Virus PB1-F2 [1 – 87]

Enzyme description:- IAV PB1-F2 [1 - 87]

Clone number:- DU 73890

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-

Monoisotopic 37,340.19 daltons

Average Mass 37,364.47 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 8.74

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 A Virus PB1-F2 [1 – 87]

<u>Protein</u>	IAV PB1-F2 [1 - 87]
<u>Clone number</u>	DU 73890
<u>Species</u>	Influenza A virus (IAV) strain A/Puerto Rico/8/1934(H1N1) ('PR8')
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL <u>FQGPLGSMGQEQDTPWILSTG</u> HISTQKREDGQQTPKLEHRNSTRLMGHCQKTMNQVMPKQIVYWRRWLS LRNPILVFLKTRVLKRWRLFSKHE
<u>Native sequence</u>	Amino acids M1 – E87 (end residue) of IAV PB1-F2 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