

MRC PPU REAGENTS

Standard Operating Procedure

Preparation of vOTU [1 - 183]

Enzyme description:- vOTU [1 – 183]

Clone number:- DU 45351

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Sepharose

Calculated molecular mass:-

Monoisotopic 47, 629.93 daltons

Average Mass 47, 660.62 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.16

Purity:- >80 %

Enzyme storage buffer:-

50 mM Tris-HCl pH 7.5, 270 mM Sucrose, 150 mM NaCl, 0.1 mM EGTA,
0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 0.2 mM PMSF, 1 mM Benzamidine.

Storage temperature:- -70 deg C

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Clone Data Sheet

vOTU [1 – 183]

<u>Protein</u>	vOTU [1 – 183]
<u>Clone number</u>	DU 45351
<u>Species</u>	Crimean-Congo Hemorrhagic fever virus strain IbAr10200
<u>Accession number</u>	3ZNH_A [GI:453055625]
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFEL GLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLE GAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLN GDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKY LKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFGQPLGSMDFLRSLDW TQVIAGQYVSNPRFNISDYFEIVRQPGDGNCFYHSIAELTMPNKTDHS YHYIKRLTESAARKYYQEEPEARLVGLSLEDYLRMLSDNEWGSTLEA SMLAKEMGITII IWTVAASDEVEAGIKFGDGDVFTAVNLLHSGQTHFD ALRILPQFETDTREALSLMDRVIAVDQLTS</p>
<u>Native sequence</u>	<p>Amino acids M1 – S183 (end) of vOTU. 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 – 228
<u>Cloning sites</u>	<i>Bam</i> H1 and <i>Not</i> 1 sites of pGEX6P-1

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Nucleotide Sequence Of Insert

ggatccATGGACTTTCTGCGTTCCTGGATTGGACACAGGTTATTGCCGGTCAGTATGTGAGCAA
CCCTCGCTTTAACATTTCCGACTATTTTCGAGATCGTTCGTCAGCCTGGTGATGGGAATTGCTTCT
ATCACAGCATTGCCGAAGTACAATGCCGAACAAAACCGATCACTCGTATCATTATATCAAACGC
CTGACTGAATCAGCAGCTCGTAAATATTATCAGGAGGAGCCGGAAGCTCGTCTGGTTGGTCTGTC
TCTGGAGGATTATCTGAAACGTATGCTGAGTGACAACGAATGGGGTAGCACTCTGGAAGCCTCTA
TGCTGGCAAAAAGAAATGGGCATTACGATCATCATTGGACCGTTGCCGCCTCCGATGAAGTTGAA
GCCGGGATCAAATTTGGAGATGGCGACGTGTTTACCGCCGTTAATCTGCTGCATAGTGGTCAGAC
CCACTTTGATGCACTGCGTATTCTGCCACAGTTTGAAACAGACACCCGTGAAGCGCTGTCTCTGA
TGGACCGTGTTATTGCCGTGGATCAGCTGACAAGCtaagcggccgc