

# *MRC PPU Reagents and Services*

## Standard Operating Procedure

### Preparation of WWP2 C838A [1 – 870]

**Enzyme description:-** WWP2 C838A [1 - 870]

**Clone number:-** DU 79146

**Source:-** Recombinant

**Expression system:-** *E.coli*

**Tag:-** N-terminal GST

**Purification method:-** GSH Sepharose

**Calculated molecular mass:-**

Monoisotopic 125, 624.79 daltons

Average Mass 125, 704.16 daltons

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 6.39

**Purity:-** >85 %

**Enzyme storage buffer:-**

50 mM HEPES-NaOH pH 7.5, 150 mM NaCl, 10 % Glycerol, 1 mM DTT

**Storage temperature:-** -70 °C

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## Clone Data Sheet

### WWP2 C838A [1 - 870]

<b><u>Protein</u></b>	WWP2 C838A [1 - 870]
<b><u>Clone number</u></b>	DU 79146
<b><u>Species</u></b>	Human
<b><u>Accession number</u></b>	O00308
<b><u>Tags</u></b>	N-terminal GST
<b><u>Bacterially expressed protein</u></b>	<p>MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLG<b>MASASSSRAGVALP</b> <b>FEKSQ LTLKVVS AKPKVHNRQPRINSYVEVAVDGLPSETTKKTGKRIGSS</b> <b>ELLWNEI I IILNVTAQSHLDLKVWSCHTLRNELLGTASVNL SNVLKNNGG</b> <b>KMENMQLTLNLQ TENKGSVVS GGELTIFLDGPTVDLGNVPNGSALT DGS</b> <b>QLPSRDSSGTAVAPENRHQPPSTNCFGGRSRTHRHS GASARTT PATGEQ</b> <b>SPGARSRRHQPVKNSGHSGLANGTVNDEPTTATDPEEPSVVGVTSP PAA</b> <b>PLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPDALPAGWEQ</b> <b>RELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYVDHNRTRTT</b> <b>WQRPTAEYVRNYEQWQSQRNQLQGAMQHFSQRFLYQSSASTDHDPLGP</b> <b>LPPGWEKRQDNGRVYYVNHNRTRTTQWEDPRTQGMIQEPALPPGWEMKYT</b> <b>SEGVRYFVDHNRTRTTTFKDPRPGFESGTKQGS PGAYDRSFRWKYHQFRF</b> <b>LCHSNALPSHVKISVSRQTLFEDSFQQIMNMKPYDLRRRLYIIMRGE EG</b> <b>LDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPDHL</b> <b>TYFRFIGRFIAMALYHGKFIDTGF TLPFYKRMLNKRPTLKDLESIDPEF</b> <b>YNSIVWIKENNLEECGLELYFIQDMEILGKVTTHELKEGGESIRVTEEN</b> <b>KEEYIMLLTDWRFRTRGVVEEQTKAFLDGFNEVAPLEWLRYFDEKELELML</b> <b>CGMQEIDMSDWQKSTIYRHYTKNSKQIQWFWQVVKEMDNEKRIRLLQFV</b> <b>TGTCRLPVGGFAELIGSNGPQKFCIDKVGKETWLP RSHTAFNRLDLPPY</b> <b>KSYEQLREKLLYAIEETEGFGQE</b></p>
<b><u>Native sequence</u></b>	<p>Amino acids M1 – E870 (end) of human WWP2. Residue M232 of fusion protein is equivalent to M1 of the native enzyme. The GST tag is located at residues 1 – 220.</p> <p>The enzyme has a C838A catalytic inactive mutation. Residue C838 is equivalent to A1069 of the fusion protein.</p>
<b><u>Protease cleavage</u></b>	Prescission site ( <u>LEVL FQGP</u> ) at residues 221 – 228