

## Product datasheet for RC212478

### PPAP2C (PLPP2) (NM\_177543) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPAP2C (PLPP2) (NM_177543) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPAP2C
Synonyms:	LPP2; PAP-2c; PAP2-g; PPAP2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212478 representing NM_177543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGTTCGCGAGAGGCCCGGGAGCCGGGGCCAGCATCCCCGCCCGGCAGCAGGAAGTCTGTGCGG  
AGGGGCCGCGCGCGCCTCCATCCCGCCCGCCTGGCCTGGGAGCCTCCCTGCCCTTCGCTATCCTGAC  
GCTGGTGAACGCCCGTACAAGCGAGGATTTACTGCGGGGATGACTCCATCCGGTACCCCTACCGTCCA  
GATACCATCACCCACGGGCTCATGGCTGGGGTACCATCACGGCCACCGTCATCCTGTCTCGGCCGGG  
AAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTCGGACTCAACAACACTAGTGGCTGCTGTATA  
CAAGGTGCTGGGACCTTCTGTTGGGGCTGCCGTGAGCCAGTCTCTGACAGACCTGGCCAAGTACATG  
ATTGGGCGTCTGAGGCCAACTTCTAGCCGTCTGCGACCCCGACTGGAGCCGGTCAACTGCTCGGTCT  
ATGTGCAGCTGGAGAAGGTGTGCAGGGAAACCCTGCTGATGTCACCGAGGCCAGGTTGTCTTTCTACTC  
GGGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGTGTATGTGCAGGCACGACTCTGTTGG  
AAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCCTTTGCCCTACGTTGGCTACA  
CCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTCCTTGTGGCCTCCTGCAGGGGGCACTGGTGGC  
TGCCCTACTGTCTGCTACATCTCAGACTTCTTCAAAGCCCGACCCACAGCACTGTCTGAAGGAGGAG  
GAGCTGGAACGGAAGCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGAT  
ACCCGCACTCCTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212478 representing NM\_177543  
Red=Cloning site Green=Tags(s)

MGVARGPGSRGQHPPPRQVEVCAEGPRARLHPAPPGLGASLPFAILTLVNAPYKRGFYCGDDSI RYPYRP  
 DTITHGLMAGVTITATVILVSAGEAYLVYTDRLYSRSDFN NYVAAYVKVLTGTF LFGAAVSQSLTDLAKYM  
 IGRLRPNFLAVCDPDWSRVNCSVYVQLEKVC RGNP ADVTEARLSFYSGHSSF GMYCMVFLALYVQARLCW  
 KWARLLRPTVQFFLVAFALYVGYTRVSDYKHHWSDV L VGLLQ GALVAAL TVCYISDFFKARPPQHCLKEE  
 ELERKPSLSLTLT LG EADHNHYGYPHSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8052\\_a09.zip](https://cdn.origene.com/chromatograms/mk8052_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_177543

**ORF Size:** 927 bp

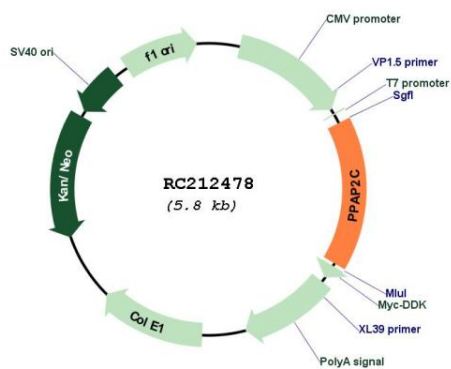
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177543.3</a>
<b>RefSeq Size:</b>	1394 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	8612
<b>UniProt ID:</b>	<a href="#">O43688</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transmembrane
<b>Protein Pathways:</b>	Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Sphingolipid metabolism
<b>MW:</b>	34.2 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the phosphatidic acid phosphatase (PAP) family. PAPs convert phosphatidic acid to diacylglycerol, and function in de novo synthesis of glycerolipids as well as in receptor-activated signal transduction mediated by phospholipase D. This protein is similar to phosphatidic acid phosphatase type 2A (PPAP2A) and type 2B (PPAP2B). All three proteins contain 6 transmembrane regions, and a consensus N-glycosylation site. This protein has been shown to possess membrane associated PAP activity. Three alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC212478