

## Product datasheet for **SC310573**

### PPAP2A (PLPP1) (NM\_176895) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPAP2A (PLPP1) (NM_176895) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPAP2A
Synonyms:	LLP1a; LPP1; PAP-2a; PAP2; PPAP2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_176895 edited  
CAACCGGGGCAGGCCGTGCCGGCTGAGGAGTCTGAGGCTACAGAGCTGCCGGCTGG  
CACACGAGCGCCTCGGCACTAACCGAGTTCGCGGGGGCTGTGAGGGGAGGGCCCCGGG  
CGCCATTGCTGGCGGTGGGAGCGCCGCCGGTCTCAGCCCGCCCTCGGCTGCTCTCTCC  
TCCGGCTGGGAGGGCCGTAGCTCGGGCCGTCGCCAGCCCCGGCCGGGCTCGAGAATC  
AAGGGCTCGGCCCGCTCCCGCAGCTCAGTCCATCGCCCTTGCCGGCAGCCCGGGCAG  
AGACCATGTTTGACAAGACGCGGCTGCCGTACGTGCCCTCGATGTGCTCTGCGTGTTC  
TGGCTTCCATGCCTATGGCTGTTCTAAAATTGGGCCAAATATATCCATTTAGAGAGGCT  
TTTTCTGTAAGACAACAGCATCAACTATCCGTACCATGACAGTACCGTCACATCCACTG  
TCCTCATCTAGTGGGGTTGGCTTGCCATTTCTCTATTATTCTTGGAGAAACCCTGT  
CTGTTTACTGTAACCTTTTGCCTCAAATTCCTTTATCAGGAATAACTACATAGCCACTA  
TTTACAAAGCCATTGGAACCTTTTTATTTGGTGCAGCTGCTAGTACAGTCCCTGACTGACA  
TTGCCAAGTATTCAATAGGCAGACTGCGGCCTCACTTCTTGATGTTTGTGATCCAGATT  
GGTCAAAAATCAACTGCAGCGATGGTTACATTGAATACTACATATGTCGAGGGAATGCAG  
AAAGAGTTAAGGAAGGCAGGTTGCTCTTATTAGGCCACTCTTCGTTTTCCATGTA  
GCATGCTGTTTGTGGCACTTTATCTTCAAGCCAGGATGAAGGGAGACTGGGCAAGACTCT  
TACGCCCCACACTGCAATTTGGTCTTGTGCGGTATCCATTTATGTTGGCCTTTCTCGAG  
TTTCTGATTATAAACACCACTGGAGCGATGTGTTGACTGGACTCATTAGGGAGCTCTGG  
TTGCAATATTAGTTGCTGTATATGTATCGGATTTCTTCAAAGAAAGAACTCTTTTAAAG  
AAAGAAAAGAGGAGGACTCTCATCAACTCTGCATGAAACACCAACAACCTGGGAATCACT  
ATCCGAGCAATCACAGCCTTGAAGGCAGCAGGGTGCCAGGTGAAGCTGGCCTGTTTT  
CTAAAGGAAAAATGATTGCCACAAGGCAAGAGGATGCATCTTTCTTCTGTTGACAAAGCC  
TTTAAAGACTTCTGCTGCTGCTATGCCTCTTGGATGCACACTTTGTGTACATAGTTAC  
CTTTAACTCAGTGGTTATCTAATAGCTCTAAACTCATTAAAAAACTCCAAGCCTTCCAC  
CAAAACAGTGCCCCACCTGTATACATTTTTATTAATAAATAATGCTTATGTATAAAC  
ATGTATGTAATATGCTTTCTATGAATGATGTTTGATTTAAATATAATACATATTAATAATG  
TATGGGRGAACCAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_176895 unedited</p> <pre> NGTCAAATATTGTATACGACTCATATAGCGGCNCGCAATTTCGCACCAGGCAACCGGGG CAGGCCGTGCCGGCTGAGGAGGTCTGAGGCTACAGAGCTGCCGCGGCTGGCACACGAGC GCCTCGGCACTAACCGAGTGTCGCGGGGGCTGTGAGGGGAGGGCCCCGGGCGCCATTGC TGGCGGTGGGAGCGCCGCCGGTCTCAGCCCGCCTCGGCTGCTCCTCCTCCGGCTGG GAGGGCCCGTAGCTCGGGGCCGTCGCCAGCCCCGGCCGGGCTCGAGAATCAAGGGCCTC GGCCGCGTCCCGCAGCTCAGTCCATCGCCCTTGCCGGGCAGCCGGGCAGAGACCATGT TTGACAAGACGCGGCTGCCGTACGTGGCCCTCGATGTGCTCTGCGTGTGCTGGCTTCCA TGCTATGGCTGTTCTAAAATTGGGCCAAATATATCCATTTTCAGAGAGGCTTTTTCTGTA AAGACAACAGCATCAACTATCCGTACCATGACAGTACCGTCACATCCACTGTCCTCATCC TAGTGGGGTTGGCTTGCCCATTTCTCTATTATTCTTGAGAAAACCTGTCTGTTTACT GTAACCTTTTGCCTCAAATTCCTTTATCANGAATAACTACATAGCCACTATTTACAAAG CCATTGGAACCTTTTTATTGGTGCAGCTGCTAGTCAGTCCCTGACTGACATTGCCAAGT ATTTTCATAGGCAGACTGCGGCCTCACTTCTGGNATGTTTGTGATCCAGATTGGTCAAAAA TCAACTGCAGCGATGGGTACATTGAATACTACATATGTCGAGGGAATGCANAANGAGTTN ANGNANGCAGNTGTTCTTTCTANCAGGCCACCTCTTCGTTTCCATGGTACTGCATGCTC GTTGT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_176895 unedited</p> <pre> CCCCATGGGGATTGGCAACTTCCAGGNCCAGNAAAGCACTGGGGNAGGGTCACAGGATG CCACCCGGGATCTGTTCCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTT TTTTTTTTTTTTTTTTTGGTCTCCCATACATTTAATATGTATTATATTTAAATCAAAC ATCATTATAGAAAGCATATTACATACATGTTTATACATAAGCATTACATTTTTTTAATA AAAATGTATACAGGTGGGGCACTGTTTTGGTGGAAAGGCTTGGAGTTTTTTAATGAGTTT AGAGCTATTAGATAAACCACTGAGTTAAAGGTAAGTATGTACACACAAAGTGTGCATCCAA GAGGCATAGCAGCAGCAGAAAGTCTTTAAAGGCTTGTACACCAGGAAGAAAGATGCATCCT CTTGCCTTGTGGCAATCATTTTCCTTTAGAAAACAGGCCAGCTTACCTGGGCACCCTGC TGCCTTCAAGGCTGGTGATTGCTCGGATAGTGATTCCCAGTTGTTGGTGTTCATGCAG AGTTGTATGAGAGTCTCCTCTTTCTTTCTTTAAAAGAAGTTCTTTCTTTGAAGAAATC CGATACATATACAGCAACTAATATTGCAACCAGAGCTCCCTGAATGAGTCCAGTCAACAC ATCGCTCCAGTGGTGTATAATCAGAACTCGAGAAAGGCCACATAAATGGATACGGC AACAAAGACAAAATTGCAAGTGTGGNGCGTAAGAGTCTTGCCAGNTCTCCTTCATCCTGGC TTTGAAGATAAGTGCCACAAACAGCATGCAGTACATGGAAAACGAANAGTGGCCTGAATA GAANGGACACCTGCCTTTCTTAA </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_176895
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_176895.1](#), [NP\\_795714.1](#)

**RefSeq Size:** 1641 bp

**RefSeq ORF:** 858 bp

**Locus ID:** 8611

**UniProt ID:** [O14494](#)

**Cytogenetics:** 5q11.2

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Sphingolipid metabolism

**Gene Summary:** 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 synthesis of glycerolipids and in phospholipase D-mediated signal transduction. This enzyme is an integral membrane glycoprotein that plays a role in the hydrolysis and uptake of lipids from extracellular space. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]  
Transcript Variant: This variant (2, also named PAP2-a2) encodes the longer isoform (2).