

Product datasheet for **SC127324**

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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_176895, the custom clone sequence may differ by one or more nucleotides

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ATGTTTGACAAGACGCGGCTGCCGTACGTGGCCCTCGATGTGCTCTGCGTGTTGCTGGCTTCCATGCCTA
TGGCTGTTCTAAAATTGGGCCAAATATATCCATTTAGAGAGGCTTTTTCTGTAAAGACAACAGCATCAA
CTATCCGTACCATGACAGTACCGTCACATCCACTGTCCTCATCCTAGTGGGGTTGGCTTGGCCATTTCC
TCTATTATTCTTGGAGAAACCCTGTCTGTTACTGTAACCTTTTGCACCTCAAATTCCTTTATCAGGAATA
ACTACATAGCCACTATTTACAAAGCCATTGGAACCTTTTTATTTGGTGCAGCTGCTAGTCAGTCCCTGAC
TGACATTGCCAAGTATTCATAGGCAGACTGCGGCCTCACTTCTTGGATGTTTGTGATCCAGATTGGTCA
AAAATCAACTGCAGCGATGGTTACATTGAATACTACATATGTCGAGGGAATGCAGAAAGAGTTAAGGAAG
GCAGGTTGTCTTCTATTAGGCCACTTTCGTTTTCCATGTACTGCATGCTGTTTGTGGCACTTTATCT
TCAAGCCAGGATGAAGGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTGTGGCGTA
TCCATTTATGTGGGCTTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTTGACTGGACTCA
TTCAGGGAGCTCTGGTTGCAATATTAGTTGCTGTATATGTATCGGATTTCTTCAAAGAAAGAACTCTTT
TAAAGAAAGAAAAGAGGAGACTCTCATACAACTCTGCATGAAACACCAACAACCTGGGAATCACTATCCG
AGCAATCACCAGCCTTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_176895 unedited
 ATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCGGCCGGGC
 TCGAGAATAAGGGCTCGGCCCGCTCCCGCAGCTCAGTCCATCGCCCTTGCCGGGCAGC
 CCGGGCAGAGACCATGTTTGACAAGACGCGGCTGCCGTACGTGGCCCTCGATGTGCTCTG
 CGTGTGCTGGATTATCTTGGAGAAACCCTGTCTGTTTACTGTAACCTTTTGCCTCAA
 ATTCCTTTATCAGGAATAACTACATAGCCACTATTTACAAAGCCATTGGAACCTTTTAT
 TTGGTGCAGCTGCTAGTCAGTCCCTGACTGACATTGCCAAGTATCAATAGGCAGACTGC
 GGCTCATTCTTGGATGTTTGTGATCCAGATTGGTCAAAAATCAACTGCAGCGATGGTT
 ACATTGAATACTACATATGTCGAGGGAATGCAGAAAGAGTTAAGGAAGGCAGCTTATCT
 TCAAGCCAGGATGAAGGGAGACTGGCAAGACTCTACGCCCCACACTGCAATTTGGTCT
 TGTTGCCGTATCCATTTATGTGGCCTTTCTCGAGTTTCTGATTATAAACACCACTGGAG
 CGATGTGTTGACTGGACTCATTACAGGGAGCTCTGGTTGCAATATTAGTTGCTGTATATG
 ATCGGATTTCTTCAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATA
 CAACCTCTGCATGAAACACCAACTGGGAATCACTATCCGAGCAATCACCCACCTTGAAG
 GCANCAAGNTGCCAGGTGAAGCTGGCTGTTTTCTAAGGAAAATGATTGCCACAGGCAGAG
 ATGCATCTTTTTCTGGTGTACAGCCTTAAGACTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_176895 unedited
 GGCCGCAATCTAGAGTCGAGTT
 ACATAAGCATTACATTTTTTAATAAAAATGTATACAGGGGGGGCACTGTTTTGGTGAA
 GGCTTGGAGTTTTTTAATGAGTTTAAAGCTATTAATAAACCAGTAAAGGTAAC
 ATGTACACACAAAGTGTGCATCCAAAAGCATAGCAGCAGCAAAAGTTTTTAAAGGCTG
 TACACCAGGAAAAAGATGCATCCTTTTGCCTTGGGGCAATCATTTCCTTTAAAAACA
 GGCCAGCTTACCTGGGACCCTGCTGCCTTTCAGGGTGGGGATTGCTCGGATAGTGAT
 TCCAGTTGTTGGGTTTCATGCAAAGTTGTATGAAAGTCCTCCTTTTCTTTCTTTAA
 AAGAAGTTCTTTCTTTGAAAAATCCGATACATATACAGCAACTAATATTGCAACCAGAG
 CTCCCTGAATGAGATCAGTCAACACATCCGCTCCAGGGGGTTTTATTAATCAGAACT
 CGAGAAAGGCCACATAAATGGGATCCCGCAACAAAACCAAAATGGCAGTGTGGGGCGTA
 AGAGTTTTGCCAGTCTCCCTTTATTCTGGCTTAAAGATAAAGCTGCCTTTCTAACT
 TTTGTGATCCCTTGAATATGGATATTTATGGAACCACTCCTGCAGTTGATTTTTGAC
 CAATCTGGATCCAAACATCCAAAATGGGGGCCAAATTTGCCTATTGATACTTGGCACTGC
 AGTTAGGGACGACTACATTTTCCCAAAAAAAGGGCCCAATGGTTTGAAATAGGCTTT
 TGGATTTTCTGAAAAAGAAATTTGGGCGCAAAAGTTACACAAAAAACAGTTTTCCACG
 AAAATCCAAACCCCAACACCTCGGCGCCCCCGCGACCGCTCTTACAAATGGTTCTTT
 CCGCGCTGCGGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_176895

Insert Size:

1070 bp

OTI Disclaimer:

The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.

OTI Annotation:

This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.

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).
Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_176895.1, NP_795714.1</u>
RefSeq Size:	1641 bp
RefSeq ORF:	858 bp
Locus ID:	8611
UniProt ID:	<u>O14494</u>
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:	<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 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]</p> <p>Transcript Variant: This variant (2, also named PAP2-a2) encodes the longer isoform (2).</p>