

Product datasheet for RC201192

PPAP2C (PLPP2) (NM_003712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAP2C (PLPP2) (NM_003712) 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:	>RC201192 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCGGAGGTGGGTCTTCGTGCTGCTCGACGTGCTGTGCTTACTGGTCGCCTCCCTGCCCTTCGCTA
TCCTGACGCTGGTGAACGCCCGTACAAGCGAGGATTTACTGCGGGGATGACTCCATCCGGTACCCCTA
CCGTCCAGATACCATACCCACGGGCTCATGGCTGGGGTCACCATCACGGCCACCGTCATCCTTGTCTCG
GCCGGGAAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTCGGACTTCAACAACACTCGTGGCTG
CTGTATACAAGGTGCTGGGGACCTTCTGTTTGGGGCTGCCGTGAGCCAGTCTCTGACAGACCTGGCCAA
GTACATGATTGGGCGTCTGAGGCCAACTTCTAGCCGTCTGCGACCCGACTGGAGCCGGTCAACTGC
TCGGTCTATGTGCAGCTGGAGAAGGTGTGCAGGGGAAACCCTGCTGATGTCACCGAGGCCAGTTGTCTT
TCTACTCGGGACACTCTTCTTTGGGATGTAAGTGCATGGTGTCTTGGCGCTGTATGTGCAGGCACGACT
CTGTTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTCTGGTGGCCTTTGCCCTCTACGTG
GGCTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTCCTTGTGGCCTCCTGCAGGGGGCAC
TGGTGGCTGCCCTCACTGTCTGCTACATCTCAGACTTCTCAAAGCCCGACCCACAGCACTGTCTGAA
GGAGGAGGAGCTGGAACGGAAGCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCAC
TATGGATACCCGCACTCCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC201192 protein sequence
 Red=Cloning site Green=Tags(s)

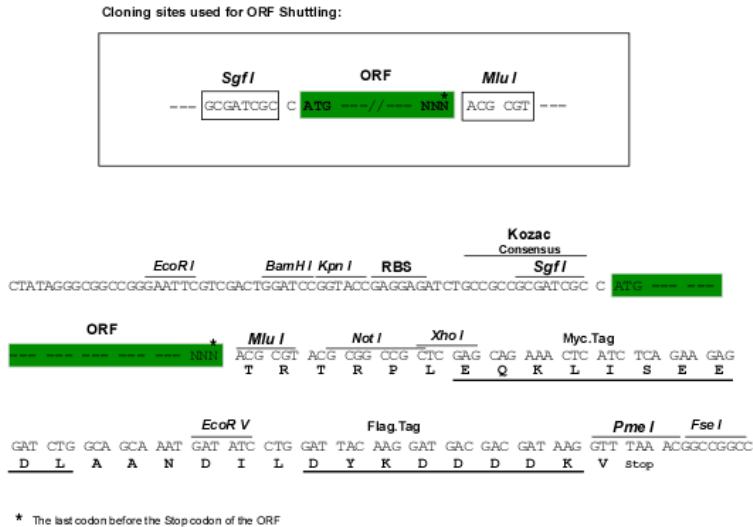
MQRRWVFVLLDVLCLLVASLPFAITLVNAPYKRGFYCGDDSI RYPYRPDTITHGLMAGVTITATVILVS
 AGEAYLVYTDRLYSRSDFN NYVAAVYKVLGTF LF GAAVSQSLTDLAKYIMIGRLRPNFLAVCDPDWSRVNC
 SVYVQLEKVC RGNP ADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCWKWARLLRPTVQFFLVAFALYV
 GYTRVSDYKHHWSDVLVGLLQ GALVAAL TVCYISDFFKARPPQHCLKEEELERKPSLSLTLTLGEADHNN
 YGYPHSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6404_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003712

ORF Size: 864 bp

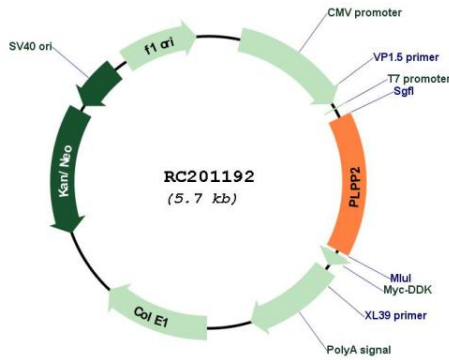
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

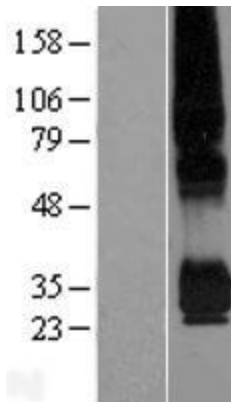
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	NM_003712.4
RefSeq Size:	1320 bp
RefSeq ORF:	867 bp
Locus ID:	8612
UniProt ID:	O43688
Cytogenetics:	19p13.3
Domains:	acidPPc
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transmembrane
Protein Pathways:	Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Sphingolipid metabolism
MW:	32.6 kDa
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 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 RC201192



Western blot validation of overexpression lysate (Cat# [LY418484]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201192 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).