

Product datasheet for **RG212478**

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:	TurboGFP
Symbol:	PLPP2
Synonyms:	LPP2; PAP-2c; PAP2-g; PPAP2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212478 representing NM_177543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTTCGCGAGAGGCCCGGGGAGCCGGGGCCAGCATCCCCGCCCGGCAGCAGGAAGTCTGTGCGG
AGGGGCCGCGCGCGCCTCCATCCCGCCCGCCTGGCCTGGGAGCCTCCCTGCCCTTCGCTATCCTGAC
GCTGGTGAACGCCCGTACAAGCGAGGATTTACTGCGGGGATGACTCCATCCGGTACCCCTACCGTCCA
GATACCATCACCCACGGGCTCATGGCTGGGGTACCATCACGGCCACCGTCATCCTTGCTCGGCCGGG
AAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTCGGACTCAACAACACTAGTGGCTGCTGTATA
CAAGGTGCTGGGACCTTCTGTTGGGGCTGCCGTGAGCCAGTCTCTGACAGACCTGGCCAAGTACATG
ATTGGGCGTCTGAGGCCAACTTCTAGCCGTCTGCGACCCCGACTGGAGCCGGTCAACTGCTCGGTCT
ATGTGCAGCTGGAGAAGGTGTGCAGGGAAACCCTGCTGATGTCACCGAGGCCAGGTTGTCTTTCTACTC
GGGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGTGTATGTGCAGGCACGACTCTGTTGG
AAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCCTTTGCCCTCTACGTGGGCTACA
CCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTCCTTGTGGCCTCCTGCAGGGGGCACTGGTGGC
TGCCCTACTGTCTGCTACATCTCAGACTTCTTCAAAGCCCGACCCACAGCACTGTCTGAAGGAGGAG
GAGCTGGAACGGAAGCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGAT
ACCCGCACTCCTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212478 representing NM_177543
 Red=Cloning site Green=Tags(s)

MGVARGPGSRGQHPPPRQQEVCAEGPRARLHPAPPGLGASLPFAILTLVNAPYKRGFYCGDDSI RYPYRP
 DTITHGLMAGVTITATVILVSAGEAYLVYTDRLYSRSDFN NYVAAYVKVLTGTF LFGAAVVSQSLTDLAKYM
 IGRLRPNFLAVCDPDWSRVNCSVYVQLEKVC RGNP ADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCW
 KWARLLRPTVQFFLVAFALYVGYTRVSDYKHHWSDVLVGLLQ GALVAAL TVCYISDFFKARPPQHCLKEE
 ELERKPSLSLTLTLGEADHNHYGYPHSSS

TRTRPLE - GFP Tag - V

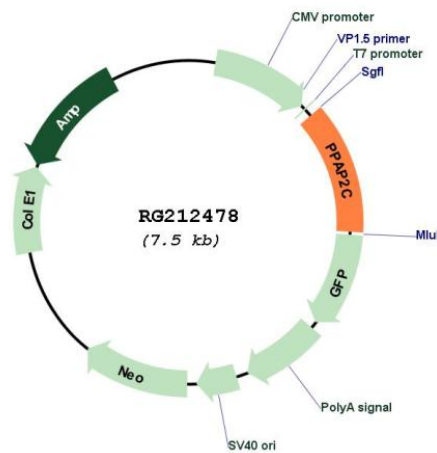
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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).
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_177543.3
RefSeq Size:	1394 bp
RefSeq ORF:	930 bp
Locus ID:	8612
UniProt ID:	O43688
Cytogenetics:	19p13.3
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
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 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]