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Product datasheet for RG215006

PPAP2C (PLPP2) (NM_177526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPAP2C (PLPP2) (NM_177526) 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:

>RG215006 representing NM_177526
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGGGTCACCATCACGGCCACCGTCATCCTTGTCTCGGCCGGGGAAGCCTACCTGGTGTACACAG
ACCGGCTCTATTCTCGCTCGGACTTCAACAACTACGTGGCTGCTGTATACAAGGTGCTGGGGACCTTCCT
GTTTGGGGCTGCCGTGAGCCAGTCTCTGACAGACCTGGCCAAGTACATGATTGGGCGTCTGAGGCCCAAC
TTCCTAGCCGTCTGCGACCCCGACTGGAGCCGGGTCAACTGCTCGGTCTATGTGCAGCTGGAGAAGGTGT
GCAGGGGAAACCCTGCTGATGTCACCGAGGCCAGGTTGTCTTTCTACTCGGGACACTCTTCCTTTGGGAT
GTACTGCATGGTGTTCTTGGCGCTGTATGTGCAGGCACGACTCTGTTGGAAGTGGGCACGGCTGCTGCGA
CCCACAGTCCAGTTCTTCCTGGTGGCCTTTGCCCTCTACGTGGGCTACACCCGCGTGTCTGATTACAAAC
ACCACTGGAGCGATGTCCTTGTTGGCCTCCTGCAGGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACAT
CTCAGACTTCTTCAAAGCCCGACCCCCACAGCACTGTCTGAAGGAGGAGGAGCTGGAACGGAAGCCCAGC
CTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGATACCCGCACTCCTCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

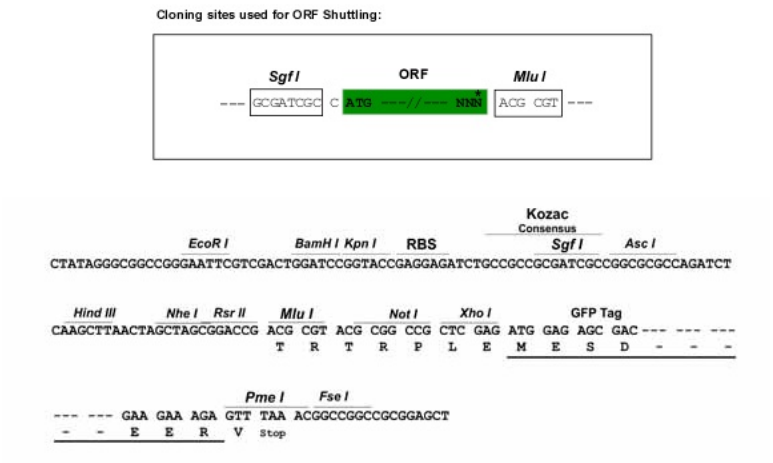
>RG215006 representing NM_177526
Red=Cloning site Green=Tags(s)

MAGVTITATVILVSAGEAYLVYTDRLYSRSDFNNYVAAVYKVLGTFLFGAAVSQSLTDLAKYMIGRLRPN
FLAVCDPDWSRVNCSVYVQLEKVCRGNPADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCWKWARLLR
PTVQFFLVAFALYVGYTRVSDYKHHWSDVLVGLLQGALVAALTVCYISDFFKARPPQHCLKEEELERKPS
LSLTLTLGEADHNHYGYPHSSS

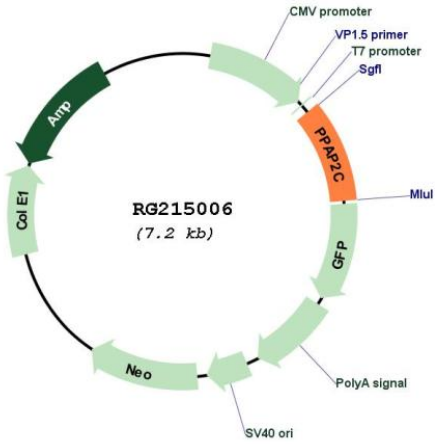
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177526

ORF Size: 696 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:	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_177526.3
RefSeq Size:	1286 bp
RefSeq ORF:	699 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]