

Product datasheet for **MG204441**

Plpp3 (NM_080555) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plpp3 (NM_080555) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plpp3
Synonyms:	1110003O22Rik; 2610002D05Rik; AV025606; D4Bwg0538e; D4Bwg1535e; Lpp3; Ppap2b;
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204441 representing NM_080555 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAAAGCTACAAGTACGACAAGGCGATCGTCCCTGAGAGTAAGAACGGCGGCAGCCCGGCTCAACA
ACAACCCGAGGAAGGGCGGCAGCAAGCGGGTGCTGCTCATCTGCCTGGACCTCTTCTGCCTTTTCATGGC
GGCTCTGCCCTTCTCATCATCGAGACAAGCACCATTAAAGCCTTACCGTCGAGGGTTTTACTGCAATGAC
GAGAGCATCAAGTATCCCTGAAAGTCAGTGAGACTATAAACGATGCTGTGCTCTGTGCGGTGGGATCG
TCATCGCCATCCTGGCGATCATTACAGGGGAATTCACCGGATCTATTACCTCAAGGAGAAGTCCCGCTC
CACCCTCAGAACCCGTATGTGGCAGCTCTCTATAAGCAAGTGGGATGCTTCTTTTCGGCTGTGCCATT
AGCCAGTCCTTACCGACATCGCCAAAGTGTCCATCGGGCGCCTGAGGCCTCACTTCTGAGCGTCTGTG
ACCTGATTTTCAGTCAGATCAATTGCTCCGAGGGCTACATTACAGAACTACAGGTGCAGAGGAGAAGACAG
CAAAGTACAGGAGGCCAGGAAGTCTTCTTCTCGGGCCACGCCTCCTTCTCCATGTTCACTATGCTGTAT
CTGGTGCTCTACCTTACAGCCCGCTTACCTGGCGCGGGCCGACTGCTCCGCCCTCTGCAGTTCA
CTTTGCTCATGATGGCCTTCTACACGGGATTGTACGGGTATCTGACTACAAGCATCATCTAGCGATGT
CCTGGCAGGATTTGCCAAAGGAGCTCTGGTGGCCTGCTGCATAGTGTCTTCTGTGTCGACCTCTTCAAG
ACTAAGACGAGCCTCTACTGCCCGCCCTGCGATCAGGAGGGAGATCTGTCTCCCGTGGACATCATCG
ACAGGAACAATCACCATAACATGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204441 representing NM_080555
 Red=Cloning site Green=Tags(s)

MQSYKYDKAIVPESKNGGSPALNNNPRKGGSKRVLLICLDLFLFMAALPFLIIETSTIKPYRRGFYCNDESIKYPLKVSETINDAVLCAVGIVIAILAIITGEFYRIYYLKEKSRSTTONPYVAALYKQVGCFLFGCAISQSFTDIAKVSIGRLRPHFLSVCDPDFSQINCSEGYIQNYRCRGEDSKVQEARKSFFSGHASF SMFTMLYLVLYLQARFTWRGARLLRPLLQFTLLMMAFYTGLSRVSDYKHHPSDVLAGFAQGALVACCIVFFVSDLFKTKTSLSLPAPAIRREILSPVDIIDRNNHHNMV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080555

ORF Size: 936 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_080555.2](#), [NP_542122.1](#)

RefSeq Size: 3162 bp

RefSeq ORF: 939 bp

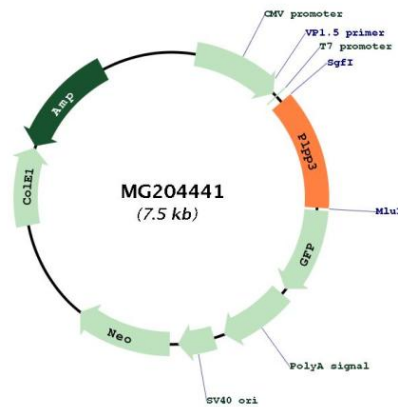
Locus ID: 67916

UniProt ID: [Q99JY8](#)

Cytogenetics: 4 49.18 cM

Gene Summary: Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). In addition it hydrolyzes lysophosphatidic acid (LPA), ceramide-1-phosphate (C-1-P) and sphingosine-1-phosphate (S-1-P) (By similarity). Essential to the formation of the chorioallantoic placenta and extraembryonic vasculature. Also mediates gastrulation and axis formation, probably by regulating the Wnt signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204441