

Product datasheet for **MR203848**

Plpp1 (NM_008247) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plpp1 (NM_008247) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plpp1
Synonyms:	Hic53; Hpic53; LPP-1; LPP1; mPAP; PAP-2a; PAP2-alpha; PAP2a; Ppap2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203848 representing NM_008247 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCGACAAGACGCGGCTGCCGTACGTGGCCCTCGATGTGATTTGCGTGTTGCTGGCTGCCATGCCTA
TGACTATTTTAAAATTGGGCAAAGTATATCCATTCAGAGGGGCTTTTCTGTACTGACAACAGCGTGAA
GTACCCGTACCATGACAGTACCATCCCCTCCGTATACTCGCCATACTGGGGCTTGGCTTACCCATTTTC
TCTATGAGTATTGGAGAATCTCTGTCTGTTTACTTTAATGTCTTGCAATTCGAATTCCTTTGTCGGCAATC
CCTACATAGCCACCATTTACAAAGCCGTCGGAGCCTTTTGTTCGGAGTCTCAGCTAGTCAGTCCTTGAC
TGACATCGCTAAGTATACTATAGGCAGTTTGGCGCCGCACTTCTTGCTATCTGTAACCCAGACTGGTCA
AAAATCAACTGCAGTGATGGCTATATTGAGGACTACATATGTCAAGGGAATGAAGAGAAAGTCAAGGAGG
GCAGGTTGCTTTCTACTCGGGACACTTTCATTCTCTATGACTGCATGCTGTTTGTGCGCACTTTATCT
TCAAGCCAGGATGAAGGGAGACTGGGCAAGACTTTACGACCCATGCTCCAGTTTGGGCTCATTGCTTTT
TCCATATATGTGGGCTTTCTCGAGTGTCTGACTACAAACACCACTGGAGTGACGTCACAGTTGGACTCA
TTCAGGGAGCTGCTATGGCTATACTGGTTGCTTGTATGTATCCGATTTCTTCAAGGACACACATTCTTA
CAAAGAGAGAAAGGAGGATCCACACAGGACTCTCCATGAAACCGCCAGTTTACGGAACACTACTCAACC
AATCACGAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203848 representing NM_008247
Red=Cloning site Green=Tags(s)

MFDKTRLPYVALDVICVLLAAMPMTILKLGKVPFQGRFFCTDNSVKYPYHDSTIPSRILAILGLGLPIF
 SMSIGESLSVYFNVLHSNSFVGNPYIATIYKAVGAFILFGVSASQSLTDIAKYTIGSLRPHFLAICNPDWS
 KINCSDDGYIEDYICQGNEEKVKEGRLSFYSGHSSF SMYCLFVALYLQARMKGDWARLLRPMLQFGLIAF
 SIYVGLSRVSDYKHHWSDVTVGLIQGAAMAILVALYVSDFFKDTHSYKERKEEDPHTTLHETASSRNYST
 NHEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008247

ORF Size: 852 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_008247.3](#), [NP_032273.1](#)

RefSeq Size: 1629 bp

RefSeq ORF: 855 bp

Locus ID: 19012

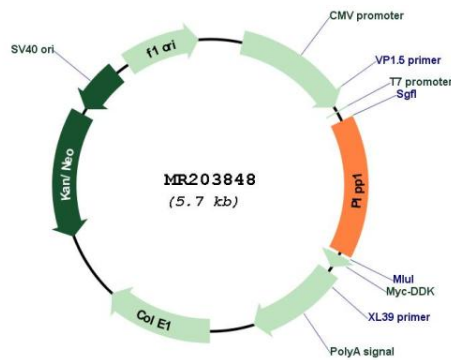
UniProt ID: [Q61469](#)

Cytogenetics: 13 D2.2

MW: 32.4 kDa

Gene Summary: Broad-specificity phosphohydrolase that dephosphorylates exogenous bioactive glycerolipids and sphingolipids. Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). In addition it hydrolyzes lysophosphatidic acid (LPA), diacyl glycerol pyrophosphate (DGPP), ceramide-1-phosphate (C-1-P) and sphingosine-1-phosphate (S-1-P). The relative catalytic efficiency is LPA > PA > C-1-P > S-1-P.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203848