

## Product datasheet for **MG224342**

### **Plpp1 (NM\_008903) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plpp1 (NM_008903) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plpp1
Synonyms:	Hic53; Hpic53; LPP-1; LPP1; mPAP; PAP-2a; PAP2-alpha; PAP2a; Ppap2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224342 representing NM_008903 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCGACAAGACGCGGCTGCCGTACGTGGCCCTCGATGTGATTTGCGTGTTGCTGGCTGGATTGCCTT  
TTGCAATCTTACTTCAAGGCATACCCCTTCCAGCGAGGAATATTCTGTAATGATGACTCCATCAAGTA  
CCCTTACAAGGAAGACACCATACCTTATGCCTTATTAGGTGGAATAGTCATTCCATTCTGTATTATCGTT  
ATGAGTATTGGAGAATCTCTGTCTGTTACTTTAATGTCTTGCATTGCAATTCCTTTGTCGGCAATCCCT  
ACATAGCCACCATTTACAAAGCCGTCGGAGCCTTTTTGTTCCGAGTCTCAGCTAGTCAGTCTTGACTGA  
CATCGCTAAGTATACTATAGGCAGTTTGCAGCCGCACTTCTTGGCTATCTGTAACCCAGACTGGTCAAAA  
ATCAACTGCAGTGATGGCTATATTGAGGACTACATATGTCAAGGGAATGAAGAGAAAAGTCAAGGAGGGCA  
GGTTGTCTTTCTACTCGGGACACTCTTCATTCTATGTACTGCATGCTGTTTGTGCGCACTTTATCTTCA  
AGCCAGGATGAAGGGAGACTGGGCAAGACTCTTACGACCCATGCTCCAGTTTGGGCTCATTGCTTTTTCC  
ATATATGTGGCCTTTCTCGAGTGTCTGACTACAAACACCACTGGAGTGACGTACAGTTGGACTCATT  
AGGGAGCTGCTATGGCTATACTGGTTGCTTTGTATGTATCCGATTTCTTCAAGGACACACATTCTTACAA  
AGAGAGAAAGGAAGAGGATCCACACAGACTCTCCATGAAACCGCAGTTCACGGAACACTCAACCAAT  
CACGAGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224342 representing NM\_008903  
Red=Cloning site Green=Tags(s)

MFDKTRLPYVALDVICVLLAGLPFAILTSRHPTFQRFICNDSDSIKYPYKEDTIPYALLGGIVIPFCIIV  
 MSIGESLSVYFNVLHNSFVGNPYIATIKAVGAFVLFVSAQSGLTDIAKYITIGSLRPHFLAICNPDWSK  
 INCSGDYIEDYICQGNEEKVKEGRLSFYSGHSSFSMYCMLFVALYLQARMKGDWARLLRPMLQFGLIAFS  
 IYVGLSRVSDYKHHWSDVTVGLIQGAAMAILVALYVSDFFKDTHSYKERKEEDPHTTLHETASSRNYSTN  
 HEP

TRTRPLE - GFP Tag - V

**Restriction Sites:**

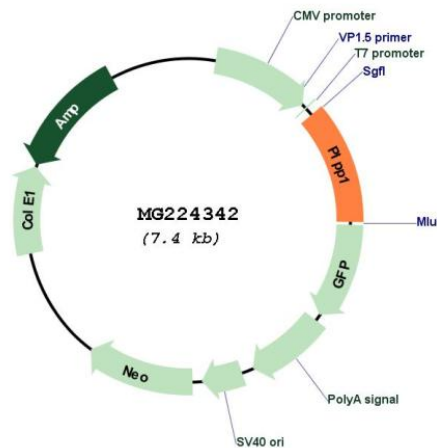
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_008903

**ORF Size:** 849 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008903.2</a> , <a href="#">NP_032929.1</a>
<b>RefSeq Size:</b>	1212 bp
<b>RefSeq ORF:</b>	852 bp
<b>Locus ID:</b>	19012
<b>UniProt ID:</b>	<a href="#">Q61469</a>
<b>Cytogenetics:</b>	13 D2.2
<b>Gene Summary:</b>	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]