

## Product datasheet for **MC204057**

### **Ptpmt1 (NM\_025576) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptpmt1 (NM\_025576) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ptpmt1  
**Synonyms:** 1110001D10Rik; 2810004N20Rik; PLIP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC026750  
 CCCGACCCTCGCCGCGCTCGCGGCGCTCTCCTTTGGAGCCATGGCTCCTGTTCCGGGATCCCTCGGG  
 CAGGGCCGGGACTCCGGGACTCAGCTTGAAGAGTCGGGAGGCATCAGGTGGCCCTCAGCTCTCGTCTC  
 CCGCGTCTTCTCGCGGTGGCTGGTCGCGAGCCCGGGGCGGTGGCTGGCCGCTGCGCCTGGCGGGGTG  
 GGGCGCTCGCCACTGCGCCTGGCGGGGTGGGGCGGGATGGCGGCTCCGCGTGGCTGGAGGCCGCGCTG  
 GCCCGGTGCTCTTACCCGACGCTGCTACACAGTGTTCGGGGGAGGGTGCAGCGGCCCGGCGCACC  
 GCGACTGGTACCACCGCATCGACCACACGGTCTGCTGGGCGCGCTGCCGCTGAAGAATGACGCGCCG  
 GCTGGTACTGGACGAGAAGCTGCGCGGGGTGATCACTATGAACGAGGAGTACGAGACCCGATTCTGTGC  
 AACACCTCGAAGGAATGGAAGAAAGCAGGAGTTGAGCAGTACGGCTCAGCACAGTCGACATGACTGGGG  
 TCCCAACCTTGGCAATCTCCACAAAGGAGTCCAGTTTGTCTCAAGTACCAGGCACTGGCCAGTGTGT  
 CTATGTGATTGTAAGGCTGGTCGATCCAGAAGTGCCACAATGGTGGCAGCCTATCTGATTCAGGTACAC  
 AACTGGAGCCCAGAGGAGCTATAGAAGCGATCGCCAAAATCCGGTCACACATCTCCATCAGGCCAGCC  
 AGCTGGAAGTTCTCAAAGAGTTCACAAGGAGTCACTGCAAGGGCAGCAAGAATTAATACTACTGATTAT  
 CTCTCATGCTGACTTAAGAGTCTGAAGACTGTGGATAACAAAGAACTGGATCTCCCTGAGATATAGTAA  
 CAAGTTTACAGGACAAAGCAGCTTAACCCGACCACACTGCAAAATGTGCTGACTGGTAGATAATGTGTCTC  
 CTTTGCCTTCTTCTGAAATAACACTTGGATGGCTACAGAGAACAAGATTGTCTGGCTAAATCTTATTT  
 TCTTTGACAGGGATAAGGAAATATTAATTTTAAACAGAGATCTGTTGTTTCTAATGTGTGTAATGGCACTG  
 TAAATCAAAGACATTTAATCCTAGAGAGGGAAAGAAGTATCTAGAGCTGTTCTTATTACTGTCAGAATCC  
 AAATCTTAATTGTATGACTTGGCAAAGTGTGCCCAGCATGTATAATAAGGCCCAATTTGGTCCCTAG  
 CAGGTCCAAAAATAAAAAATAAAAAATAAAAAATAAAAAATAAAAAATAAAAAATAAAAAATAAAAAATA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_025576  
**Insert Size:** 786 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC026750</a> , <a href="#">AAH26750</a>
<b>RefSeq Size:</b>	1306 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	66461
<b>UniProt ID:</b>	<a href="#">Q66GT5</a>
<b>Cytogenetics:</b>	2 E1
<b>Gene Summary:</b>	Lipid phosphatase which dephosphorylates phosphatidylglycerophosphate (PGP) to phosphatidylglycerol (PG) (PubMed:21641550, PubMed:21730175). PGP is an essential intermediate in the biosynthetic pathway of cardiolipin, a mitochondrial-specific phospholipid regulating the membrane integrity and activities of the organelle (PubMed:21641550). Has also been shown to display phosphatase activity toward phosphoprotein substrates, specifically mediates dephosphorylation of mitochondrial proteins, thereby playing an essential role in ATP production (By similarity). Has probably a preference for proteins phosphorylated on Ser and/or Thr residues compared to proteins phosphorylated on Tyr residues (By similarity). Probably involved in regulation of insulin secretion in pancreatic beta cells (By similarity). May prevent intrinsic apoptosis, probably by regulating mitochondrial membrane integrity (By similarity).[UniProtKB/Swiss-Prot Function]