

Product datasheet for **MC224540**

Plb1 (NM_001081407) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plb1 (NM_001081407) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plb1
Synonyms: 4632413E21Rik; 4930433E17Rik; 4930539A06Rik; BC033606
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224540 representing NM_001081407
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGTACCCAGGTGTGTCCCGGTGGGACTGCTGTGCTGCTACTGCTGGGACAAGGGCCCTCCC
 AAATCCATGGCTCTTCTGGAGAGAACACATTGGCATGGCAGTCCCAGCAAGTGTGGACCTGAAGAA
 TTTTCCATTCCCTTGCAAGCCAAAGAAGTTAGAATTGAGTGTGCTTTCTGAGTCAGTTCCTCTGAGA
 CCCTCAGACATTAACCTCGTGGCAGCCATCGGCAACCCAGAAATTCCTCTAGCCCTGGGTCTGGCACGA
 TCAACATGGAGAAACCTCAAAGCATCAAGAACCACAGGATGTATGCATGGGAATCATGACAGTTCT
 TTCAGATATCATCAGACATTTAGTCTTCTGTCTGATGCCACGTGTTCTCTGGGAAGGGCACTGCA
 GTCCACACTACTGCTGAAGATTTGTGGATTGAGCTAAAGAGCTGGTGGGCGCCTGAAGGACAACCCGC
 AACTTGACTTTGAGAAGGACTGGAACCTCATCACTGTGTTCTTCAGTAACACAAGCCAGTGTACCTGTG
 TCCCTCTGCTCAGCAGAAAAGTCACTTGATGAGGCACATGGAGATGCTGTGGGGGTGCTGGATTACCTG
 CATCATGAGGTCCCAGAGCATTGTGAATTTGGTGGATCTCTGAGGTTTTGGCCATGGATCTTCAGC
 ATCAAGAGACTGGCTTCAGCCCTGCACCAGAGTTTGCAATGACACAGAGACAACGACGCTATCCAAAG
 TGTCAATGAGTGGTCTATCAGGAAGCCTGGGAAGATCTTCTGGCCTCTAGCAAGTTCAACAAGCATGAG
 ACCTTCGCGGTGGTTTTCCAGCCTTTCTTCGATGAAATTGAACCACCCTTGAAAAGGTCCTCGCCCAGG
 ATCCCACCACTCGCCCTCAGGATCTGGAATAGCATGATGGAACCAGTGGGTCAAAGGATGGGCTACT
 CAATACTGCAGAGAGAAAGACAATGAAATGTCCCTCTGAGGAGAGTCCCTATCTGTTACCTACAAAAAT
 AGCAACTACCAGGCCAGACGACTGAAACCTATAACAAAGCTTCAGATGAAAGAAGGATCAGAATTCACCT
 GTCCTGACAAGAACCCTCGAACTCAATCCCCACAACAGTTCACAGCTTGGGCCAGCTGATATCAAGAT
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 TTCCCAGCATCCTTCAACCAGGCCGTAGCAGGAGCCAAATCTGATGGCTTAGCTGGCCAGGCCAGAAAG
 CTGGTGGACCTGATGAAGGCAGACAAGACAATAAACTTTCAGGAAGACTGGAAGATAACTACTGTGTTTA



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TAGGAGGCAATGACCTCTGTGCTTCTGCAGTAACTCGACTCGCTTTTCTCCCCAAACTTCATAGACAA
 CATCAAGAACGCCCTGGACATCCTCCATGCAGAGGTTCCACGGGCCTTTGTGAACATGGCAATGGTGATG
 GAGATCACCCCTTGAGAGAATTCAATGAACCTACAGTCTCATGCCACGGAACATCCTCAGCCGAC
 TGTGTCCTTGTGCTGGGCCTTGGTGATAACTCAGAAGAACTTCCAGCCTCGTTCAAAGGAACAGGGA
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 GTCCAGCCCTTATTTGAAAATGTGTCCATGCCACGGACCCCGAGGGCGTGCCCGACAAGTCTTTCTTTG
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 GGAACCTGTGGGCCACAAGACAAGACATAATAATTTTGAATCAAGGCCCTATCGTGTGCCAACCAG
 GCCTCGCCATTTCTGAGCACTACCAAGAACAGCAACCTGGGTAATGGAACCTGGATGGTGTGCGAGGAGA
 GAGCCCTTCTGCCTCACCACCAACCTCAGTGCATACCCTGAGACCTGCAGACATTCAAGTTGTGGCAGC
 TCTGGGAGACTCTGACTGCTGGCAATGGAATCAGCTCCAAGAAGGTAACTCACCAGTGTCTCCACA
 CAGTATCGAGGACTGTCTATAGTGTGGTGGGACAAGACCCTGGAGAATGTGACCACTTTGCCAATA
 TCCTACGAAAATTAATGGAATCTCACAGGCTACTCAGTAGGAACCGGTGACTCCAGTTCGCAACGC
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 AAGATGAAGAGTGACAACAGAGTGAACCTCAACCAGACTGGAAGGTATCACGGTGTGATCGGGCCCA
 GTGACTTGTGACTTCTGCACGGATTCAATCATTACTCTGCAGCAATTTTTTTGACCATCTCCAAAA
 TGCCCTGGACATTCTACATAAGGAGGTACCCAGAGCCCTGGTCAACCTTGTGGACTTCATTAACCCAGT
 ATCATTGGGAAGTATTCTGAAGAACCAGACAAGTGCCAGTGAATCAGTCCAGTGTCTGTGCAACT
 GTGTTCTGACCCCGAGGAAGGATTCCTATGAGCTGGCAAGGTTGGAGGCCTTACCAAATCTACCAGAG
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 TTTCTCCTCAACCAAGCTCCCTGTCTAGAGAACGGAAACCAGATACATCCTTCTTTGCCCCAGACT
 GCATCCACCTAAACCAGAAGTCCACACTCAGCTCGGAGAGCCCTCTGGGCAATATGCTTGAACCCCT
 GGGAAAGAAAAGTGAATACTTTGGACCCAAAAGGACACATATCTTTGGCCTGCCCAACCAAGGATCAGCCC
 TTCCTGAGAACCTTCCGAAACAGTAACTACAAGTATCCTACCAAGCCAGCCATTGAGAAGTGGGGCAGTG
 ACTTCTGTGCACAGAGAAGAGCCCTTCCAGCCAGGTACCCACCTCAGTTCATGAGCTCCGACCAGCAGA
 CATCAAGGTGGTGGCAGCAATGGGTGACTTTCTGACTACAGCCACCGGAGCTCGGCCAAGTGATATAAA
 AGGCTAGCCACGCCCTGGAGGGGCTGTCTGGAGCATTGGAGGAGATGGAAAGTTGGAGACCCATACCA
 CACTTCCCAACATCCTGAAGAAGTTCAACCCTTCCATCACTGGATTCTCTACTGGTACCCTGGACAACAA
 GGCAGGATTAATGTGCAGAGAAGGAGCCAGAGCTCAGGACATGCCGGCCAGGCTAAGACCCTGGT
 AAGAAGATGAAAAGCACACCTACAATCAACCTACAGGAAGACTGGAAGCTGATTACACTCCTCATTGGAA
 ACAACGACTGTGTCTTTACTGTGAGAAATCCGGAGGACAACCTCAACTAAGAGTATGTCAAGTACATCCA
 GCAAGCCTTGGACATCCTCTATGAGGAGCTTCCAGAGTTTTATCAATGTGGTGGAAAGTATGGAGCTG
 GCTGGCCTGCACCACGTCCAAGTGGGAAATGTGCCATGCCACTGGCAGTTGAGAAAAACTGCAGTTGCT
 TAAGACTCCTCCAAAACCTCACAGCGATGCAGGAGCTGAAGAACTAACTGGAACCTCCAGAGCGGCAT
 CTCCGAGCTCTCCTATTGGCACCAGTACATGGAGCGTGGAGACTTCGCAGTCACTGTGCAGCCTTTCTTC
 CGGAATACCTTTATCCCACTGAATGAGCGTGGGGCTGGACCTCACTTTCTTCTCTGAAGACTGTTTCT
 ACTTCTCAGACCGTGGGCATGCTGAGATGGCCATTGCCCTCTGGAATAACATGCTGGAACCAAGTGGGCTG
 GAAGACATCCTCAATAACTTCAATACAACAGAACCAAACTCAAGTGGCCCTCACCTGAAAGGCCCTTTC
 CTCTACACCCCTCCGGAATAGTCACTTCTTCCAGACAAGGCTGAAGAACCCTCAATGCCTACTACTGGG
 CAGTGCCAGTGGCAGCAATAGGTGGCCTGGCAGTTGGCATCCTTGGAGTATGTTGTGGAGAAGTGTGAA
 ACCCGTCAACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 ACCCGTCAACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 GAAAAGAGGCTCAAAGCTGGAACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081407
Insert Size: 4437 bp

OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_001081407.1</u> , <u>NP_001074876.1</u>
RefSeq Size:	4853 bp
RefSeq ORF:	4437 bp
Locus ID:	665270
UniProt ID:	<u>Q3TTY0</u>
Cytogenetics:	5 B1
Gene Summary:	<p>Membrane-associated phospholipase. Exhibits a calcium-independent broad substrate specificity including phospholipase A2/lysophospholipase activity. Preferential hydrolysis at the sn-2 position of diacylphospholipids and diacylglycerol, whereas it shows no positional specificity toward triacylglycerol. Exhibits also esterase activity toward p-nitrophenyl. May act on the brush border membrane to facilitate the absorption of digested lipids (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>