

Product datasheet for **MC221979**

Plb1 (NM_030072) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plb1 (NM_030072) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plb1
Synonyms:	4632413E21Rik; 4930433E17Rik; 4930539A06Rik; BC033606
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221979 representing NM_030072
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAACCTCAAAGCATCAAGAACCAACCACAGGATGTATGCATGGGAATCATGACAGTTCTTTTCAG
 ATATCATCAGACATTTTCAGTCTTCTGTCTGATGCCACGTGTTCTCCTGGGAAGGCACTGCAGTCCA
 CACTACTGCTGAAGATTTGTGGATTTCAGCTAAAGAGCTGGTGAGGCGCCTGAAGGACAACCCGCAACTT
 GACTTTGAGAAGGACTGGAACTCATCACTGTGTTCTTCAGTAACACAAGCCAGTGTACCTGTGTCCCT
 CTGCTCAGCAGAAAAGTCACTTGATGAGGCACATGGAGATGCTGTGGGGGTGCTGGATTACCTGCATCA
 TGAGGTCCCAGAGCATTGTGAATTTGGTGGATCTCTCTGAGGTTTTGGCCATGGATCTTCAGCATCAA
 GAGACTGGCTTCAGCCCTGCACCAGAGGTTTGCAATGCACAGAGACAACGACGCTATCCAAAGCTGTCA
 TGCAGTGGTCTATCAGGAAGCCTGGGAAGATCTTCTGGCCTCTAGCAAGTTCAACAAGCATGAGACCTT
 CGCGGTGGTTTTCCAGCCTTTCTCGATGAAATGAACCACCCTTGAAAAGGTCTCGCCCCAGGATCCC
 ACCACACTCGCCCTCAGGATCTGGAATAGCATGATGGAACCAGTGGGTCAAAGGATGGGCTACTCAATA
 CTGCAGAGAGAAAAGACAATGAAATGTCCCTCTGAGGAGAGTCCCTATCTGTTACCTACAAAAATAGCAA
 CTACCAGGCCAGACGACTGAAACCTATAACAAAGCTTCAGATGAAAGAAGGATCAGAATTCACCTGTCT
 GACAAGAACCCTCGAATCAATCCCCACAACAGTTCACAGCTTGCAGCCAGCTGATATCAAGATCATAG
 GAGCATTGGGTGACTCGCTCACGGCAGGCAATGGAGCTGGGGCCAGCCCTTGAATATCTGGATGTCTT
 AACTGAATACCGAGGCCGTCTGGAGTGTGGGCGGGATGAGACCATCAAACCGTGACCACCTACCC
 AACATTCTCCGGAAATCAACCCTCTTGAAGGGCTTTCTGTTGGCACTGGGAAAGAAAGCACTCCC
 GAGCATCTTCAACCAGGCCGTAGCAGGACCAAACTGATGGCTTAGCTGGCCAGGCCAGAAAGCTGCT
 GGACCTGATGAAGGCAGACAAGACAATAAACTTTCAGGAAGACTGGAAGATAATCACTGTGTTATAGGA
 GGCAATGACCTCTGTGCTTCTGCAAGTAACTCGACTCGCTTTTCTCCCCAAAACCTCATAGACAACATCA
 AGAACGCCCTGGACATCTCCATGCAGAGGTTCCACGGCCCTTTGTGAACATGGCAATGGTATGGAGAT
 CACCCCTTGAGAGAATTTCAATGAACCTACAGTCTCATGCCACGGAACATCCTCAGCCGACTGTGT
 CCTTGTGCTCTGGCCTTGGTGATAACTCAGAAGAACTTCCAGCCTCGTTCAAAGGAACAGGGATTATC
 AGAAGAAAACCTGAAGAGCTCATTAAAGCGGACGATATGACACGAGGGATAATTTCACTGTGGTTGTCCA
 GCCCTTATTTGAAATGTGTCCATGCCACGGACCCCGGAGGGCGTGCCCGACAAGTCTTTCTTTGCCCT
 GACTGTTTCCACTTAAATGCCAAGACTCATGCCGCTCAGCCATTGCCCTCTGGAAGAACATGCTGGAAC
 CTGTGGGCCACAAGACAAGACATAATAATTTGAAATCAAGGCCCTATCGTGTGTCGAACACAGGCCTC
 GCCATTTCTGAGCACTACCAAGAACAGCAACCTGGGTAATGGAACCTGGATGGTGTGCGAGGAGAGAGCC
 CCTTCTGCCTCACCACCAACCTCAGTGCATACCCTGAGACCTGCAGACATTCAAGTTGTGGCAGCTCTGG
 GAGACTCTGACTGTGGCAATGGAAATCAGCTCCCAAGAAGGTAACCTCACCGATGTCTCCACACAGTA
 TCGAGGACTGTCTATAGTGTGGTGGGACAAGACCCTGGAGAATGTGACCACTTTGCCAATATCCTA
 CGGAAATTTAATGGAAATCTCACAGGCTACTCAGTAGGAACCGGTGACTCCAGTCCGCAACCGCTTTCC
 TTAACCAGGCTGTCCCTGGGCGAAGGCTGAGAACCCTACAAGCCAAGTCCGACTCTGGTTCAGAAGAT
 GAAGAGTGACAACAGAGTGAACCTCAACCGAGACTGGAAGTCAACCGGTGATGATCGGCGCCAGTGAC
 TTGTGTGACTTCTGCACGGATTGAAATCACTACTCTGCAGCAATTTTTTTGACCATCTCCAAAATGCCT
 TGGACATTCTACATAAGGAGGTACCCAGAGCCCTGGTCAACCTTGTGGACTTCATTAACCCAGTATCAT
 TCGGAAGTATTCTGAAGAACCAGACAAGTGCCAGTGAATCAGTCCAGGT**AG**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_030072
Insert Size: 2505 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:	NM_030072.1 , NP_084348.1
RefSeq Size:	3147 bp
RefSeq ORF:	2505 bp
Locus ID:	665270
UniProt ID:	Q3TTY0
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 (2) has multiple differences and uses a downstream start codon, compared to variant 1. The resulting protein (isoform 2) has shorter N- and C-termini when compared to isoform 1.</p>