

Product datasheet for **MR218628**

Plb1 (NM_030072) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR218628 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAACCTCAAAGCATCAAGAACCAACCACAGGATGTATGCATGGGAATCATGACAGTTCTTTTCAG
 ATATCATCAGACATTTTCAGTCTTCTGTCTGATGCCACGTGTTCTCCTGGGAAGGGCACTGCAGTCCA
 CACTACTGCTGAAGATTTGTGGATTTCAGCTAAAGAGCTGGTGAGGCGCCTGAAGGACAACCCGCAACTT
 GACTTTGAGAAGGACTGGAACTCATCACTGTGTTCTTCAGTAACACAAGCCAGTGTACCTGTGTCCCT
 CTGCTCAGCAGAAAAGTCACTTGATGAGGCACATGGAGATGCTGTGGGGGTGCTGGATTACCTGCATCA
 TGAGGTCCCAGAGCATTGTGAATTTGGTGGATCTCTCTGAGGTTTTGGCCATGGATCTTCAGCATCAA
 GAGACTGGCTTCAGCCCTGCACCAGAGGTTTGCAATGCACAGAGACAACGACGCTATCCAAAGCTGTCA
 TGCAGTGGTCTATCAGGAAGCCTGGGAAGATCTTCTGGCCTCTAGCAAGTTCAACAAGCATGAGACCTT
 TGCGGTGGTTTTCCAGCCTTTCTCGATGAAATGAACCACCCTTGAAAAGGTCTCGCCCCAGGATCCC
 ACCACACTCGCCCTCAGGATCTGGAATAGCATGATGGAACCAGTGGGTCAAAAGGATGGGCTACTCAATA
 CTGCAGAGAGAAAAGACAATGAAATGTCCCTCTGAGGAGAGTCCCTATCTGTTACCTACAAAAATAGCAA
 CTACCAGGCCAGACGACTGAAACCTATAACAAAGCTTCAGATGAAAGAAGGATCAGAATTCACCTGTCTCT
 GACAAGAACCCTCGAATCAATCCCCACAACAGTTTCACAGCTTGCAGCCAGCTGATATCAAGATCATAG
 GAGCATTGGGTGACTCGCTCACGGCAGGCAATGGAGCTGGGGCCAGCCCTTGAATATCTTGATGTCTT
 AACTGAATACCGAGGCCGTCTGGAGTGTGGGCGGGATGAGACCATCAAAACCGTGACCACCTACCC
 AACATTCTCCGGGAATTAACCCCTCCTTGAAGGGCTTTCTGTTGGCACTGGGAAAGAAAGCACTCCC
 GAGCATCTTCAACCAGGCCGTAGCAGGACCAATCTGATGGCTTAGCTGGCCAGGCCAGAAAGCTGGT
 GGACCTGATGAAGGCAGACAAGACAATAAACTTTCAGGAAGACTGGAAGATAATCACTGTGTTTATAGGA
 GGCAATGACCTCTGTGCTTCTGCAAGTAACTCGACTCGCTTTTCTCCCCAAAACCTTCATAGACAACATCA
 AGAACGCCCTGGACATCTCCATGCAGAGGTTCCACGGCCCTTTGTGAACATGGCAATGGTGTGAGAT
 CACCCCTTGAGAGAATTAATGAACCTACAGTCTCATGCCACGGAACATCCTCAGCCGACTGTGT
 CCTTGTGCTCTGGGCTTGGTGATAACTCAGAAGAACTTCCAGCCTCGTTCAAAGGAACAGGGATTATC
 AGAAGAAAAGTGAAGAGCTCATTAAATAGCGGACGATATGACACGAGGGATAATTTCACTGTGTTGTCCA
 GCCCTTATTTGAAATGTGTCCATGCCACGGACCCCGAGGGCGTGCCCGACAAGTCTTTCTTTGCCCT
 GACTGTTTCCACTTAAATGCCAAGACTCATGCCCGCTCAGCCATTGCCCTCTGGAAGAACATGCTGGAAC
 CTGTGGGCCACAAGACAAGACATAATAATTTGAAATCAAGGCCCTATCGTGTGTCGGAACCAGGCCCTC
 GCCATTTCTGAGCACTACCAAGAACAGCAACCTGGGTAATGGAACCTGGATGGTGTGCGAGGAGAGAGCC
 CCTTCTGCCTCACCACCAACCTCAGTGCATACCCTGAGACCTGCAGACATTCAAGTTGTGGCAGCTCTGG
 GAGACTCTGACTGTGGCAATGGAAATCAGCTCCCAAGAAGGTAACCTCACCGATGTCTCCACACAGTA
 TCGAGGACTGTCTATAGTGTGGTGGGACAAGACCCTGGAGAATGTGACCACTTTGCCAATATCCTA
 CGGAAATTTAATGGAAATCTCACAGGCTACTCAGTAGGAACCGGTGACTCCAGTCCGCAAAACGCTTTCC
 TTAACCAGGCTGTCCCTGGGCGAAGGCTGAGAACCCTACAAGCCAAGTCCGACTCTGGTTCAGAAGAT
 GAAGAGTGACAACAGAGTGAACCTCAACCGAGACTGGAAGTCAACAGGTGATGATCGGCGCCAGTGAC
 TTGTGTGACTTCTGCACGGATTGAAATCATTACTCTGCAGCAATTTTTTTGACCATCTCCAAAATGCCT
 TGGACATTCTACATAAGGAGGTACCCAGAGCCCTGGTCAACCTTGTGGACTTCATTAACCCAGTATCAT
 TCGGAAGTATTCTGAAGAACCAGACAAGTGCCAGTGAATCAGTCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218628 protein sequence

Red=Cloning site Green=Tags(s)

```

MEKPQSIKNQPQDVMGIMTVLSDIIRHFSPSVLMPTCSPGKGTAVHTTAEDLWIQAKELVRRLKDNPQL
DFEKDWKLITVFFSNTSQCHLCPAQKSHLMRHMMLWGVLDYLHHEVPRAFVNLVDLSEVLAMDLOHQ
ETGFSPAPEVCKCTETTTLSKAVMQWSYQEAWEDLLASSKFNKHETFAVVFQPFDEIEPPLKRSSPQDP
TTLALRIWNSMMEPVGQKDGLLNTAERKTMKCPSEESPYLFTYKNSNYQARRLKPITKLMKEGSEFTCP
DKNPSNSIPTTVHSLRPADIKIIGALGDSL TAGNGAGASPNILDVLTEYRGLSWSVGGDETIKTVTTLP
NILREFNPSLKGFSVGTGKESTRASFNQAVAGAKSDGLAGQARKLVDLMKADKTINFQEDWKIITVFIG
GNDLCASCSNSTRFSPQNFIDNIKALDILHAIEVPRAFVNMMVMMEITPLRELFNEPTVSCPRNILSRLC
PCVLGLGDNSEELSSLVQRNRDYQKKTEELINSGRYDTRDNFTVVVQPLFENVSMRTPPEGVDPKSFAP
DCFHFNAKTHARSAIALWKNMLEPVGHKTRHNNFEIKAPIVCPNQASPFLSTTKNSNLGNGTWMVCEERA
PSASPPTSVHTLRPADIQVVAALGDSL TAGNGISSQEGNLTQVSTQYRGLSYSAGGDKTLENTTLPNIL
RKFNGNLTGYSVGTGDSSANAFNLQAVPGAKAENLTSQVRTL VQKMKSDNRVNFNRDVKVITVMIGASD
LCDFCTDSNHYSANFFDHLQNALDILHKEVPRALVNLVDFINPSIIREVFLKNPDKCPVNQSR
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- ACCN:** NM_030072
- ORF Size:** 2505 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_030072.1](#), [NP_084348.1](#)

RefSeq Size: 3147 bp

RefSeq ORF: 2505 bp

Locus ID: 665270

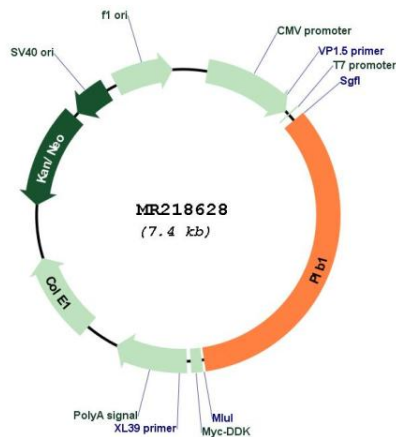
UniProt ID: [Q3TTY0](#)

Cytogenetics: 5 B1

MW: 92.6 kDa

Gene Summary: 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]

Product images:



Circular map for MR218628