

Product datasheet for **MC223822**

Plcb1 (NM_019677) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plcb1 (NM_019677) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plcb1
Synonyms: 3110043I21Rik; A1132408; mKIAA0581; Plcb
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223822 representing NM_019677
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCTGGGGCTCAGCCCGAGTGCACGCCTTGAACCTCAAGCCCGTGTGCGTGTCCGACAGCCTCAAGA
 AGGGCACCAAATTCGTCAAGTGGGATGATGACTCCACTATTGTTACTCCAATTATTTTGAGGACTGATCC
 TCAGGGATTTTTCTTTACTGGACAGACCAGAATAAGGAGACGGAGCTGTTAGATCTCAGCCTTGTCAAG
 GATGCCAGGTGTGGGAAGCACGCCAAAGCTCCCAAGACCCCAAGTTGCGTGAACCTCTGGATGTTGGGA
 ACATCGGACACTTGAACAGCGCATGATAACTGTGGTGTATGGACCAGACCTGGTGAACATTTCCCACTT
 GAATCTTGTGGCTTTTCAAGAGGAAGTAGCCAAGGAATGGACAAATGAGGTTTTCAAGCTTGGCAACAAAC
 CTGCTGGCTCAGAACATGTCCAGGGACGATTTCTGGAGAAAGCATATACTAAGCTCAAGCTCCAGGTCA
 CCCCAGAAGGCCGATTCCTCTTAAAAACATCTATCGATTGTTCTCAGCAGACCGGAAGCGGTTGAAAC
 TGCACTAGAGGCTTGTAGTCTTCCATCTTCGAGGAATGACTCCATTCCCAAGAGGACTTCACTCCAGAT
 GTATACAGAGTTTTCTGAACAATCTCTGTCCCGACCTGAAATGATAACATCTTTCTGAATTTGGTG
 CCAAAAGCAAACCGTACCTGACGGTTGATCAGATGATGGATTTTCAACCTTAAGCAGAGAGATCCCCG
 GCTCAATGAAATCCTTTACCCACCTCTGAAGCAGGAGCAGGTCCAAGTGTGATTGAGAAATATGAGCCC
 AACAGCAGCCTCGCCAAGAAAGGCAGATGTCAGTGGATGGATTCATGCGCTACCTGAGCGGAGAAGAAA
 ATGGAGTCGTTTACCTGAGAACTGGATTTGAACGAAGACATGTCTCAGCCCCTGTCTCACTATTTTCAT
 CAATTCCTCGCACACACCTACCTCACAGCTGGCCAGTTGGCTGGGAACTCGTCTGTAGAGATGTATCGC
 CAGGTGCTTCTGTCTGGATGTCGCTGTGTGGAGCTGGACTGCTGGAAGGGAAGGACCGCTGAGGAAGAGC
 CTGTCAATACCCATGGATTCACCATGACAACAGAAATATCCTTCAAGGAAGTCATAGAAGCCATCGCAGA
 GTGTGCGTTCAAGACGTCTCTTTCCCATCTCTTTTCTTTGAGAACCAGTGGATCCCCGAAGCAA
 CAAGCCAAGATGGCCGAGTATTGCCGATTAATCTTTGGTGTGATGCCCTCTGATGGAACCACTGGAAAAAT
 ACCCACTGGAATCTGGGTACCTCTTCAAGCCCTATGGATTTAATGTATAAAATCTTGGTGAACAAACAA
 GAAGAAGTCGCACAAGTCGTGAGGGAAGTGGTAAGAAGAAGCTTTCAGAGCAAGCTTCCAACACCTAC
 AGCGACTCCTCCAGTGTTCGAGCCTTCGTCTCCAGGAGCTGGGGAAGCAGATACGGAGAGTGTGACG



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ATGACGACGACGATGACTGTAAAAAGTCTTCCATGGATGAGGGGACAGCTGGCAGCGAAGCCATGGCCAC
 AGAAGAGATGTCTAACCTGGTGAACATATTCAGCCTGTCAAGTTTGAGTCCCTTTGAAATTTCAAAAAA
 AGAAATAAAGCTTTGAAATGTCTTCTTCGTGGAAACCAAGGACTTGAACAACCTACAAAGTCTCCGG
 TGGAAATTTGTAGAATAACAACAAGATGCAACTTAGCAGGATATATCCCAAGGGAACACGTGTGGATTATC
 CAACTACATGCCTCAACTCTTCTGGAATGCTGGCTGTGAGTACAATGGGAAGAGCGGCTATAGGCTGAAGCCAGAT
 CTAGCTATGCAGATAAACATGGGCATGTATGAGTACAATGGGAAGAGCGGCTATAGGCTGAAGCCAGAT
 TCATGAGGAGCCGGACAAGCATTCTTCTGATCCATTTACTGAAGGAATCGTAGATGGGATAGTGCCCAACAC
 TCTATCTGTAAAGATTATTTTCAGGTCAGTTCCTCTCTGATAAGAAAGTTGGGACTTATGTGGAAAGTGGAT
 ATGTTTGGCTTGCTGTGGACACAAAGGAGGAAGGCATTTAAAACCAAGACATCCCAAGGAAATGCTGTAA
 ACCCTGTCTGGGAAGAAGAACCTATTGTATTCAAAAAGGTAGTTCTACCTTCTCTGGCCTGTTTGAGGAT
 AGCAGCATATGAAGAGGGAGGCAAATTTATTGGCCACCGGATATTGCCTGTGCAGGCTATTCGGCCAGGC
 TATCACTACATCTGCCTGCGGAATGAGAGGAACCAAGCCCTGACGCTGCCAGCTGTCTTTGTCTACATAG
 AAGTCAAAGATTATGTGCCAGACACGTATGCAGATGTAATCGAAGCTCTATCAAACCCAATCCGATATGT
 CAATCTGATGGAACAGAGAGCTAAGCAGCTGGCTGCGTTGACCTGGAGGATGAAGAGGAAGTAAGAAG
 GAGGCTGACCCTGGAGAAACATCTTCCGAGGCTCCAAGCGAAACCAAGGACAACGCCAGCAGAGAATGGGG
 TGAAATCACACCGCATCCCTTGCACCCAAGCCGCCTTCCAGGCTCCACACAGCCAGCCTGCTCCAGGGTC
 TGTGAAGGCACCTGCCAAAACAGAAAGATCTGATCCAGAGCGTGTTAACAGAAGTAGAGGGCGAAACCATC
 GAAGAGCTCAAGCAACAGAAATCGTTTCGTGAAACTTCAAAGAAACACTACAAAGAAATGAAAGACCTGG
 TGAAGAGACACCACAAGAAAACCAAGGAGCTCATTAAAGGAGCACACGACCAAGTACAACGAGATTCAGAA
 TGACTACCTGAGAAGGAGGGCAGCCTTGGAGAAGTCCGCCAAAAGGACAGCAAGAAGAAATCTGAACCC
 AGCAGCCCTGACCACGGCTCATCAGCCATTGAGCAAGACCTCGCTGCCCTGGATGCAGAAATGACTCAGA
 AGTTGATAGACTTGAAAGACAAGCAACAACAGCAGCTGCTTAATCTTCGGCAAGAGCAGTATTACAGCGA
 GAAGTACAAAAGCGAGAACACATTAACACTGCTTATTGAGAAAGTTGACAGATGTTGCAGAAAGATGTCAG
 AACAAATCAGTTAAAGAAGCTGAAGGAAATCTGCGAGAAAGAGAAGGAATTAAGAAGAAAATGGATA
 AGAAGAGGCAAGAGAAGATAACAGAAGCAAGTCCAAAGACAAAAGCCAGATGGAAGAGGAGAAGACAGA
 GATGATCCGATCGTACATCCAGGAGGTGGTTGAGTACATCAAGAGGTTAGAGGAAGCACAAAGTAAAAGA
 CAAGAAAACCTCGTGGAGAAACACAATGAGATCCGCCAGCAGATCCTCGATGAGAAGCCCAAGGGGGAAG
 GCCCTCTCAGTCTTGTGGAAGGTTGCCATGAGGATCCCTCTGTTCCCCCAACTTTACTCCCCCA
 CCCTCAAGCTCTCAAGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_019677
- Insert Size:** 3522 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:

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_019677.2](#), [NP_062651.2](#)

RefSeq Size: 7116 bp

RefSeq ORF: 3522 bp

Locus ID: 18795

UniProt ID: [Q9Z1B3](#)

Cytogenetics: 2 65.66 cM

Gene Summary: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) uses an alternate 3' exon that contains an in-frame stop codon compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.