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Product datasheet for MC223857

Plcb2 (NM_177568) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcb2 (NM_177568) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plcb2
Synonyms:	AI550384; B230205M18Rik; B230399N12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC223857 representing NM_177568
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTTGCTCAACCCTGTTCTATTGCCCCCTAACGTGAAGGCATATCTGAGCCAAGGGGAGCGCTTCA
TCAAGTGGGACGATGAAACTTCAATAGCCTCTCCTGTTATCCTCCGTGTGGATCCCAAGGGCTATTACTT
ATACTGGACATATCAAAATCAGGAGATGGAGTTCCTGGATGTCACGAGTATCCGAGATACTCGCTTTGGG
AAGTTTGCAAAGATACCCAAGAGCCAGAAACTCCGGGAGGTCTTCAACATGGACTTTCCAGACAACCACT
TCCTGCTGAAAACACTCACAGTGGTGTCCGGCCCTGACATGGTGGACCTCACCTTCTACAACTTTGTCTC
TTACAAGGAGAACGTAGGCAAGGACTGGGCTGAGGACGTGCTAGCTCTCGCCAAACACCCGATGACAGTC
AATGCTCCTCGAAGCACATTCCTGGACAAGATCCTGGTGAAGCTTAAGATGCAGCTCAACCCTGAAGGGA
AGATTCCCGTGAAGAATTTTTTCCAGATGTTTCCTGCTGATCGAAAACGGGTGGAAGCTGCCCTCGGTGC
TTGTCACCTTGCAAAAGGCAAAAATGATGCTATCAACCCAGAGGACTTCCCAGAATCCGTGTACAAGAGC
TTCCTCATGAGCCTCTGTCCTCGGCCAGAAATCGACGAGATCTTCACTTCCTACCACTCTAAAGCTAAGC
CCTACATGACCAAGGAACACCTGACCAAATTCATCAATCAGAAGCAGCGAGACCCTCGACTCAACTCCTT
GCTGTTCCCACCAGCCCGGCCTGAGCAAGTTCAAGTGCTCATTGACAAGTACGAACCCAGCGGCATCAAT
GTGCAGAGGGGCCAGCTGTCACCAGAGGGGATGGTCTGGTTTCTCTGTGGACCAGAGAACAGTGTGCTGG
CCCACGATACACTGCTGATCCACCAAGACATGACACAACCACTGAATCACTATTTCATCAACTCCTCACA
CAACACCTACCTGACAGCCGGCCAGTTCTCAGGCCTTTCCTCGGCTGAGATGTACCGCCAGGTGCTGCTG
TCTGGCTGCCGGTGTGTAGAGTTAGACTGTTGGAAGGGCAAGCCCCCTGACGAAGAGCCCATTATCACCC
ACGGCTTCACCATGACCACAGATATCTTGTTCAAGGAAGCAATTGAAGCCATTGCAGAAAGTGCCTTTAA
GACCTCCCCGTATCCTGTCATCCTATCATTTGAAAACCATGTAGACTCACCCCGGCAACAGGCTAAGATG
GCTGAGTACTGCAGGAGCATGTTTGGAGAGACCTTGCTCACAGATCCCCTGGAAAATTTCCCTCTGAAAC
CTGGCATCCCTCTGCCCAGCCCCGAGGACCTCCGGGGCAAGATCCTCATTAAGAATAAGAAGAACCAGTT
TTCTGGGCCAGCATCCCCCAGCAAGAAGCCTGGTGGGGTGGCTGAGGGCAGCCTCCCGTCTAGTGTCCCT
GTAGAAGAGGACACGGGGTGGACTGCTGAGGACCGGACTGAGGTGGAGGAGGAGGAGGTGGTGGAAGAGG

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AGGAAGAGGAGGAGTCAGGAAACCTGGATGAAGAAGAAATTAAGAAGATGCAGTCGGATGAGGGCACAGC
AGGCCTGGAGGTGACAGCTTATGAGGAAATGTCCAGCCTTGTCAATTATATCCAGCCCACCAAGTTTATC
TCCTTCGAGTTCTCTGCACAGAAGAACAGAAGTTACGTTGTCTCTTCCTTCACGGAGCTCAAGGCCTACG
AGCTGCTCTCCAAGGCCTCCATGCAGTTTGTGGACTATAATAAACGCCAGATGAGCCGTGTGTACCCCAA
GGGCACACGCATGGACTCTTCCAACTACATGCCCCAGATGTTCTGGAATGCTGGATGTCAGATGGTTGCC
CTCAATTTCCAGACAATGGACCTGCCCATGCAGCAGAACATGGCACTGTTTGAGTTCAACGGGCAGAGTG
GCTACCTCCTAAAGCACGAGTTCATGCGCAGACTGGACAAGCAGTTCAACCCCTTCTCAGTGGACCGCAT
TGATGTGGTGGTAGCCACCACCCTTTCCATTACGATCATCTCTGGGCAGTTCCTGTCAGAGCGCAGTGTA
CGCACCTATGTGGAAGTGGAACTGTTTGGCCTCCCAGGGGACCCCAAGAGGCGGTATCGAACCAAGCTGT
CACCTACTGCTAACTCCATCAATCCTGTCTGGAAAGAGGAACCCTTTATCTTTGAGAAGATCTTGATGCC
TGAGCTGGCCTCCCTCAGGATAGCTGTGATGGAAGAAGGCAGCAAATTTCTTGGACACCGCATCATCCCC
ATCAATGCCTTACATTCTGGATACCACCATCTGTGCCTGCGCAGTGAGAGCAACATGGCCCTTACCATGC
CAGCTCTCTTTGTCTTCCTGGAGATGAAGGACTACATACCTGACACCTGGGCAGATCTTACAGTAGCCCT
TGCCAACCCCATCAAGTACTTCAATGCCCAGGATAAGAAGTCCGTGAAGCTCAAAGGAGTGACAGGAAGT
CTGCCCGAGAAACTCTTCTCTGGGACACCTGTTGCCAGTCAGTCCAATGGGGCGCCAGTCTCGGCAGGCA
ATGGGTCAACAGCGCCTGGGACCAAGGCCACGGGGGAAGAAGCTACGAAAGAAGTGACAGAGCCACAGAC
CGCCAGCTTGGAAGAGTTGCGGGAACTGAAGGGCGTGGTGAAACTGCAGCGAAGACATGAGAAGGAGCTT
CGAGAGTTGGAGCGCCGTGGAGCCCGGCGCTGGGAGGAACTGCTGCAGCGTGGCGCCGCACAGCTGGCGG
AGCTCCAGACCCAGGCAGCAGGCTGCAAGCTCCGCCCAGGCAAGGGCTCCCGCAAGAAGAGGACCCTGCC
CTGTGAGGAGACCGTCGTGGCGCCTAGCGAGCCCCACGACCGGGCGGACCCGCGCGTGCAGGAGCTGAAG
GACAGGCTGGAGCAGGAGCTGCAGCAGCAAGGCGAGGAGCAGTACCGCTCCGTCCTCAAGCGCAAGGAGC
AGCACGTGACCGAGCAAATCGCCAAGATGATGGAGCTGGCCAGAGAGAAACAGGCTGCTGAACTCAAGAC
CTTCAAGGAGACCTCAGAAACTGACACCAAAGAAATGAAGAAAAAACTGGAGGCCAAGAGGCTGGAACGG
ATCCAAGCCATGACCAAGGTCACCACAGACAAGGTGGCCCAGGAGAGGCTCAAGAGAGAAATTAACAACT
CCCACATCCAGGAAGTGGTCCAGGCTGTCAAGCAGATGACAGAGACCCTGGAGCGTCACCAGGAGAAGCT
GGAAGAGAGGCAGACAGCCTGCCTGGAGCAGATCCAGGCAATGGAAAAGCAGTTCCAGGAGAAGGCGCTG
GCAGAGTATGAGGCCAAGATGAAGGGCCTGGAGGCTGAAGTAAAGGAGTCGGTGCGGGCCTACTTCAAGG
ACTGCTTCCCCACCGAAGCAGAAGACAAGCCTGAGAGGTCCTGTGAGGCCTCTGAGGAGTCGTGTCCACA
GGAACCACTTGTGAGCAAGGCAGACACTCAGGAGAGCCGCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177568

Insert Size: 3546 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_177568.2, NP_808236.2
RefSeq Size:	5145 bp
RefSeq ORF:	3546 bp
Locus ID:	18796
UniProt ID:	A3KGF7
Cytogenetics:	2 59.43 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. This protein may be involved in the transduction of bitter taste stimuli (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). The exon combination of this variant is inferred based on partial mouse transcript alignments and full-length orthologous support. 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.