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Product datasheet for RN210622

Plcb1 (NM_001077641) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcb1 (NM_001077641) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plcb1
Synonyms:	Phosphb; PLC'1; PLCbeta1; RATPHOSPHB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>RN210622 representing NM_001077641
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGGGCTCAGCCCGGAGTGCACGCCTTGCAACTCAAGCCCGTGTGCGTGTCCGACAGCCTCAAGA
AGGGCACCAAATTCGTCAAGTGGGATGATGACTCCACTATAGTTACTCCAATTATTTTGAGGACCGATCC
TCAGGGATTTTTCTTTTACTGGACAGATCAGAATAAGGAGACGGAGCTGTTAGATCTCAGCCTCGTCAAG
GATGCCAGGTGTGGGAAGCACGCCAAAGCTCCCAAGGACCCCAAGTTACGTGAACTTCTGGATGTTGGGA
ACATCGGACACTTGGAACAGCGCATGATAACTGTGGTGTATGGGCCAGACCTGGTGAATATCTCCCACCT
GAATCTTGTGGCTTTTCAAGAGGAAGTGGCCAAGGAATGGACAAATGAGGTTTTCAGTTTGGCAACAAAC
CTGCTGGCTCAGAACATGTCCAGGGACGCATTTCTGGAGAAAGCATATACTAAGCTCAAGCTTCAGGTGA
CCCCAGAAGGGCGCATTCCTCTTAAAAACATCTATCGACTGTTTTCGGCAGACCGGAAGCGAGTGGAAAC
TGCGCTAGAGGCTTGTAGTCTTCCATCGTCAAGGAACGATTCCATCCCTCAAGAGGACTTTACTCCAGAT
GTATACAGAGTTTTCCTGAACAATCTTTGTCCCCGACCTGAAATTGATAACATCTTCTCTGAATTTGGTG
CCAAAAGCAAACCGTACCTTACTGTTGATCAGATGATGGATTTTATCAACCTTAAGCAGAGAGATCCCCG
GCTGAATGAAATACTTTACCCACCTCTGAAGCAAGAGCAGGTCCAAGTGTTGATTGAGAAGTACGAGCCC
AACAGCAGCCTCGCCAAGAAAGGGCAGATGTCAGTGGATGGATTCATGCGCTACCTGAGCGGAGAAGAAA
ATGGAGTCGTTTCACCTGAGAAACTGGATTTGAACGAAGACATGTCTCAGCCCCTGTCTCACTATTTCAT
CAATTCCTCACACAACACCTACCTCACAGCTGGCCAGTTGGCTGGGAACTCGTCTGTAGAGATGTATCGC
CAGGTGCTTCTGTCTGGATGTCGCTGTGTGGAGCTGGACTGCTGGAAGGGCAGGACCGCTGAGGAAGAGC
CTGTCATCACCCATGGATTCACCATGACAACAGAAATATCCTTCAAGGAAGTCATAGAAGCCATCGCAGA
GTGTGCGTTCAAGACTTCTCCTTTTCCCATCCTCCTTTCCTTTGAGAACCATGTGGATTCCCCGAAGCAA
CAAGCCAAGATGGCCGAGTATTGCCGATTAATCTTTGGTGATGCCCTCCTTATGGAGCCACTGGAAAAAT
ACCCACTGGAATCTGGGGTACCTCTTCCAAGCCCTATGGATTTAATGTATAAAATCTTGGTGAAAAACAA
GAAGAAGTCACACAAGTCGTCAGAGGGAAGTGGTAAAAAGAAGCTCTCTGAGCAAGCTTCCAACACGTAC
AGCGACTCTTCCAGCGTGTTCGAGCCTTCGTCTCCGGGAGCTGGGGAAGCAGATACGGAGAGTGATGACG

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ATGACGACGATGATGACTGTAAAAAGTCTTCCATGGATGAGGGGACTGCTGGCAGCGAGGCCATGGCCAC
AGAAGAGATGTCTAACCTGGTGAACTATATTCAGCCTGTCAAGTTTGAGTCCTTTGAAACTTCAAAAAAA
AGAAATAAAAGCTTTGAAATGTCTTCCTTCGTGGAAACCAAAGGACTCGAACAACTCACGAAGTCTCCAG
TTGAATTTGTCGAATACAACAAGATGCAGCTTAGCAGGATATATCCCAAAGGAACACGCGTGGACTCATC
CAACTACATGCCTCAGCTCTTCTGGAATGCTGGCTGTCAGATGGTGGCGCTCAACTTCCAGACAGTGGAT
CTAGCTATGCAGATAAACATGGGCATGTACGAATACAATGGGAAGAGTGGCTACAGGCTGAAGCCAGAGT
TCATGAGGAGGCCAGACAAGCATTTTGATCCATTTACTGAAGGAATCGTAGATGGGATAGTGGCCAACAC
TTTATCTGTTAAGATTATTTCAGGTCAGTTTCTCTCTGATAAGAAAGTTGGGACTTATGTGGAAGTGGAT
ATGTTTGGTTTGCCTGTGGACACAAGAAGGAAGGCATTTAAAACCAAGACATCCCAAGGAAATGCTGTAA
ATCCTGTCTGGGAAGAAGAGCCAATTGTATTCAAAAAGGTAGTTCTGCCTTCTCTGGCCTGTTTAAGGAT
AGCAGCATATGAGGAAGGAGGCAAATTTATTGGCCACCGGATCTTGCCTGTGCAAGCAATTCGGCCAGGC
TATCACTACATCTGCCTGCGGAATGAGAGGAACCAGCCCCTGATGCTGCCAGCTGTCTTTGTCTACATAG
AAGTCAAAGACTATGTCCCAGACACGTATGCAGATGTAATTGAAGCATTATCAAACCCAATCCGATATGT
CAATCTGATGGAACAGAGAGCTAAGCAGTTGGCTGCATTGACACTGGAGGATGAAGAGGAAGTCAAGAAG
GAGGCTGACCCCGGGGAAACGTCATCCGAGGCTCCAAGTGAAACCAGGACAACTCCAGCAGAGAATGGGG
TGAATCACACCGCAACCCTTGCACCCAAGCCACCTTCCCAGGCTCCACACAGCCAGCCTGCTCCAGGGTC
TGTGAAGGCACCCGCCAAAACAGAGGATCTGATTCAGAGCGTGTTAACAGAAGTAGAGGCGCAGACCATT
GAAGAGCTCAAGCAACAGAAATCGTTCGTGAAACTTCAAAAGAAGCACTACAAAGAAATGAAAGACCTGG
TCAAGAGACACCACAAGAAAACCACCGAGCTCATCAAGGAGCATACCACCAAGTACAATGAGATTCAGAA
TGACTACTTGAGAAGGAGGGCAGCCTTGGAAAAGTCCGCCAAAAAGGATAGCAAGAAGAAATCTGAACCC
AGCAGCCCAGATCATGGCTCATCCGCCATTGAGCAAGACCTCGCGGCCCTGGATGCAGAAATGACTCAGA
AGTTGATAGACTTGAAAGACAAGCAACAACAGCAGCTGCTTAATCTTCGGCAAGAGCAGTATTACAGTGA
GAAGTACCAGAAGCGGGAGCACATTAAATTGCTCATTCAGAAGTTGACAGATGTTGCTGAAGAGTGTCAG
AACAATCAGTTGAAGAAGCTGAAGGAAATCTGCGAGAAAGAGAAGAAGGAATTAAAGAAGAAAATGGATA
AGAAGAGGCAGGAGAAGATAACAGAAGCCAAGTCCAAAGACAAAAGCCAGATGGAAGAGGAGAAGACAGA
GATGATCCGATCATACATCCAGGAGGTGGTGCAGTACATCAAGAGGTTAGAGGAAGCACAAAGTAAAAGA
CAAGAAAAACTTGTGGAAAAACACAAGGAGATCCGCCAGCAGATCCTGGATGAGAAGCCCAAGCTGCAGA
TGGAGCTGGAGCAAGAATACCAAGACAAGTTCAAAAGACTGCCCCTGGAGATTCTGGAGTTTGTACAGGA
AGCCATGAAAGGGAAGGTTAGTGAGGACAGCAATCACGGCTCTGCCCCTCCCTCGCTGGCCTCAGACCCT
GCTAAGGTGAACCTCAAGTCTCCCTCCAGTGAGGAGGTACAAGGAGAGAACGCGGGAAGAGAGTTTGATA
CTCCTCTGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001077641

Insert Size: 3651 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_001077641.1, NP_001071109.1
RefSeq Size:	5217 bp
RefSeq ORF:	3651 bp
Locus ID:	24654
UniProt ID:	P10687
Cytogenetics:	3q36
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]