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Product datasheet for SC116233

PLCL1 (NM_006226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCL1 (NM_006226) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLCL1
Synonyms:	PLCE; PLCL; PLDL1; PPP1R127; PRIP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006226, the custom clone sequence may differ by one or more nucleotides

ATGGCCGAGGGCGCGGCCGGCAGGGAGGATCCGGCGCCGCCCGACGCGGCGGGGGGCGAAGACGACCCCC
GAGTGGGCCCGGATGCCGCCGGGGACTGCGTGACGGCGGCCTCTGGGGGCCGGATGAGGGACCGTCGCAG
CGGGGTCGCACTGCCAGGCGCCGCGGGGACCCCAGCGGACAGCGAGGCGGGCCTCCTGGAGGCAGCACGG
GCGACCCCCCGGCGCAGCAGCATCATCAAGGATCCTTCAAACCAAAAATGTGGTGGAAGAAAGAAAACCG
TGTCTTTCAGCAGCATGCCATCGGAAAAGAAAATTAGCAGTGCAAATGACTGCATCAGCTTCATGCAAGC
TGGCTGTGAGTTGAAGAAAGTCCGGCCAAATTCTCGCATTTACAACCGTTTTTTCACTCTGGACACAGAC
CTTCAAGCTCTTCGCTGGGAACCTTCAAAGAAAGACCTCGAGAAAGCCAAGCTTGATATTTCTGCCATAA
AAGAGATCAGACTGGGGAAAAACACGGAAACATTTAGAAACAATGGCCTTGCTGACCAGATCTGTGAGGA
CTGTGCCTTTTCCATACTCCACGGGGAAAACTATGAGTCTCTGGACCTAGTTGCCAATTCAGCAGATGTG
GCAAACATCTGGGTGTCTGGGTTACGGTACCTGGTTTCTCGAAGTAAGCAGCCTCTTGATTTTATGGAGG
GCAACCAGAACACACCACGGTTCATGTGGTTGAAAACAGTGTTTGAAGCAGCAGATGTTGATGGGAATGG
GATTATGTTGGAAGACACCTCTGTAGAGTTAATAAAACAACTCAACCCTACTCTGAAGGAAGCCAAGATC
AGGTTAAAGTTTAAAGAAATCCAGAAGAGCAAGGAAAAACTAACCACCCGCGTGACCGAAGAGGAATTTT
GTGAAGCTTTTTGTGAACTTTGCACCAGGCCAGAAGTGTATTTCTTACTTGTACAGATATCTAAAAACAA
AGAATATTTGGATGCCAATGATCTCATGCTCTTTTTAGAAGCTGAGCAAGGAGTCACCCATATCACCGAG
GATATATGCTTAGACATCATAAGGAGATACGAACTTTCTGAAGAGGGACGTCAAAAAGGGTTTCTTGCAA
TTGATGGCTTTACCCAGTATTTATTGTCATCAGAATGTGACATTTTTGATCCTGAGCAAAAGAAGGTTGC
CCAAGATATGACCCAGCCATTATCTCACTACTATATCAATGCCTCTCATAACACCTATCTAATAGAAGAC
CAGTTCAGGGGGCCAGCTGACATCAATGGGTACATTAGAGCTTTGAAAATGGGCTGTCGAAGCGTTGAAC
TCGATGTAAGTGATGGTTCAGATAATGAACCAATCCTTTGTAATCGAAATAACATGACAACCCATGTTTC
CTTTCGAAGTGTCATAGAGGTAATAAATAAATTTGCCTTTGTTGCTTCTGAATACCCACTCATTCTTTGC
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AACTCTATACTGAAGCACCTTTGCCCTCAGAATCCTACCTCCCATCACCAGAAAAATTAAAAAGAATGAT

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CATTGTGAAAGGAAAGAAGTTGCCTTCTGATCCAGATGTGTTAGAAGGAGAAGTAACAGATGAAGATGAA
GAAGCTGAAATGTCTCGAAGGATGTCGGTAGATTACAATGGTGAGCAGAAGCAAATCCGACTCTGTAGGG
AGCTCTCTGATTTGGTGTCTATTTGTAAATCTGTTCAATACAGGGATTTTGAACTATCTATGAAAAGCCA
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TGAATCCACAGGACTTTTGGAATTGTGGCTGTCAGATTGTAGCAATGAATTTTCAGACTCCGGGTCCAAT
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CGAGATGAAGTTTCTTACTTCAGCGCAAATACAAAGGGCATTCTACCTGGGGTGTCTCCTCTAGCTCTTC
ATATCAAGATCATCAGTGGTCAGAATTTCCCAAAGCCCAAGGGAGCTTGTGCCAAAGGGGATGTCATAGA
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TCATCACCAGTGACAATACTCCTTCAGTCTCACTTGTGATGAAAGACAGCTTTCCTTACCTGGAGCCTCT
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AAGAACTTCATAATTTGGGGGCAAAAGAAGGCTTGAAGGGAAGAAAACTCAACAAAGCAACTGAGAGCTT
TGCTTGGAACATTACAGTATTGAAGGGCCAAGGAGATCTGTTGAAGAATGCCAAGAATGAAGCTATAGAA
AACATGAAGCAGATCCAGCTGGCATGCCTGTCCTGTGGACTGAGTAAAGCCCCCAGCAGCAGTGCTGAGG
CCAAGAGCAAGCGCAGCCTGGAAGCCATAGAGGAGAAGGAAAGTAGTGAGGAGAATGGGAAGCTGTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006226 unedited
GGATTTGTATACGACTCCTATAGGCGGCCCGCGAATTCGCACGAGGCTGGCATAAAGACT
CAGTACATTGTTTAAAGAGAATGCATGAAGTTAACTGCATTACCTTTTGGAGGGTTCATT
TGTGAATTTGGGGCCAAAGTAAGGGGAGTTACTGGTATTCTAATAGCATCAAACAAATGA
ATTCATTTCATCTTTTGGGGAGGTGGAGGGAATAAGGTCTCACCTTGTCGCCCATGCAGG
CTGGAGGGCCGTGATGTGATCTCGGCTCGCTGCAGCCTCAACCTGGGCTCAAGCGATCCT
CCCGCCTCAGCCTCCTGAGTGGCTGGGACTGCAGGATCCTTCAAACCAAAAATGTGGTGG
AAGAAAGAAAACCGTGTCTTTCAGCAGCATGCCATCGGAAAAGAAAATTAGCAGTGCAAA
TGACTGCATCAGCTTCATGCAAGCTGGCTGTGAGTTGAAGAAAGTCCGGCCAAATTCTCG
CATTTACAACCGTTTTTTCACTCTGGACACAGACCTTCAAGCTCTTCGCTGGGAACCTTC
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CTTTTCCATACTCCACGGNGAAAACTATGAGTCTCTGGACCTAGTTGCCAATTCAGCAGA
TGTGGCAAACATCTTGGGTGGTCTGGGTTACGGTNACCTGNTTTNCTCGAAGTAAGCAGC
CTCTTGATTTTATGGAGGGCAACCAGAACACACCCGGNTTCATGNTGGTGAAAAACANTG
TTNGAACANCAGATGTTGATGGGAATGGGATTATGTGTGGAGAACACTNTTGTAGAGTTA
ATAAACAACTCCACCCTACTCTGAAGAANCCAGAACGNGGTTAAGGTTAAGAAATCCAAG
AGCAGGAAACTACCACCCGCGGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006226 unedited
CTATGGACCGCGGCCGCATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTCAAAACCTTAACTCTTTCAGAAAGGGGCAACATAAACATAATAGGGTTAAAAA
GCCAAAAATACCCCAGAACCTTTGGGAGATGTTTATATTTGCAAAATTTCAACAATTATC
TTCTTTAGGTTCCCCCAAATTACCATATTGGTTAATCAAATTAATTAAAAAGCTTTTCAA
AATAAAAGCAAGGCTTTAAATAAATATATTCTTTCATAACCATAAAACATTAAGTTCTGT
GGGAGGTAACAAACATTACACTCAAGTCCTTTATGAAAACATTAGGGAAAAAATTACCTA
AAGGCAATTATAAAGGCCCCCTAATTAGCCATTTTTTTTTGCATGAATGCTTTTCTGGGG
GGGTAAGGGTTATATCATAAATGGGGGGAAACTGGTTAGCTCTTAAATTATCACAAAGAT
ATTATCGGACCCACAAAATTTATATCAGCTAAAGGGGATGATATGATATTGTTGGAACAA
TATCTTTAAATTTAAATTTAGTCCCCTAAATTACATCCAAACAAAGCCAACACCTCTAAG
CTGCCATATCTGTTATAAAAAAGGAGGGCTAAACTCTCAGCTGGAAAGAATGAAACCTTC
CTACAAATCTCGAAATTATACAACAATATTATTGCCACATCAAAATCCTAATTGCAACAG
AGCTTTCAGTGTGTTTCAGAGTACCACACAGGGTAGGTATAAATTCACTTATGATCAGCT
TTTCTAGNGAATCATATGTTTAGTAATGACTACCGAAACCTCCTAAAATTGATTTATTAA
TAAATATTTTAAAGATTCTGACTGAAAATGACCTGCTAACTTTTAAGAATCCCACCATCG
TAAACCTCATCACTTTATCCCACTCGATCTCAGGATTTTCTACCTTNTTATCTACAAACT
TATGT

Restriction Sites: NotI-NotI

ACCN: NM_006226

Insert Size: 4760 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_006226.1, NP_006217.1

RefSeq Size: 6608 bp

RefSeq ORF: 2994 bp

Locus ID: 5334

UniProt ID: Q15111

Cytogenetics: 2q33.1

Domains: C2, PI-PLC-X, PI-PLC-Y, PH

Protein Families: Druggable Genome

Gene Summary: Involved in an inositol phospholipid-based intracellular signaling cascade. Shows no PLC activity to phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol. Component in the phospho-dependent endocytosis process of GABA A receptor (By similarity). Regulates the turnover of receptors and thus contributes to the maintenance of GABA-mediated synaptic inhibition. Its aberrant expression could contribute to the genesis and progression of lung carcinoma. Acts as an inhibitor of PPP1C.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a.