

Product datasheet for **SC126664**

Phospholipase C beta 1 (PLCB1) (NM_182734) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase C beta 1 (PLCB1) (NM_182734) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase C beta 1
Synonyms:	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_182734 edited
ACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACT
TGTTCTTTTTGCAGCGCCGCGAATTCGGCAGCAGGGCAGAATCCGCCGCGACTGGCAGC
CTCGGCTGACCGCTCGGCTTCTCTTCGCCTTCGAGGCTCCTCATCCACCGGGCTCC
AGACCTCGCGTCCCGCCCGGGGCATGGCCGGGCGCTGCGCCCCGCGCGTCTGCCTGCT
GAGCGGCGCCGGAGGGAGGTGCGGAGGCCGGGAGGCCGGGAGGCCGGCTGGGAGCAGAG
TCGAGCGCTCCGGAGCAGAGAAAGGAGCCCGCCCCGCGCCCCGCGCCCCGCGCACGG
TCCCCAGTCCCTGCCGCTCGCCCGGGCCCGCCGGAGCCAGATGAGCCAGATGGCCG
GGGCTCAACCCGAGTGCACGCCTTGCAACTCAAGCCCGTGTGCGTGTCCGACAGCCTCA
AGAAGGGACCAAATTCGTCAAGTGGGATGATGATTCAACTATTGTTACTCCAATTATTT
TGAGGACTGACCCTCAGGATTTTTCTTTACTGGACAGATCAAACAAGGAGACAGAGC
TACTGGATCTCAGCCTTGCAAAGATGCCAGATGTGGGAGACACGCCAAAGCTCCCAAGG
ACCCCAAATTACGTGAACTTTTGGATGTGGGAACATCGGGCGCTGGAGCAGCGCATGA
TCACAGTGGTGTATGGGCTGACCTCGTGAACATCTCCATTTGAATCTCGTGGCTTTCC
AAGAAGAAGTGGCCAAGGAATGGACAAATGAGGTTTTAGTTTGGCAACAACCTGCTGG
CCCAAAACATGTCAGGGATGCATTTCTGGAAAAAGCCTATACTAACTTAAGCTGCAAG
TCACTCCAGAAGGGCGTATTCCTCTCAAAAACATATATCGCTTGTTCAGCAGATCGGA
AGCGAGTTGAAACTGCTTTAGAGGCTTGTAGTCTCCATCTTCAAGGAATGATTCAATAC
CTCAAGAAGATTTCACTCCAGAAGTGTACAGAGTTTTCTCAACAACCTTTGCCCTCGAC
CTGAAATTGATAACATCTTTTCAGAATTTGGTGCAAAAAGCAAACCATATCTTACCGTTG
ATCAGATGATGGATTTTATCAACCTTAAGCAGCGAGATCCTCGGCTTAATGAAATACTTT
ATCCACCTCTAAAACAAGAGCAAGTCCAAGTATTGATTGAGAAGTATGAACCAACAACA
GCCTCGCCAGAAAAGGACAAATATCAGTGGATGGGTTCATGCGCTATCTGAGTGGAGAAG
AAAACGGAGTCGTTTACCTGAGAACTGGATTTGAATGAAGACATGTCTCAGCCCTTT
CTCACTATTTTATTAATTCCTCGCACAAACCTACCTCACAGTGGCCAACCTGGTGGAA
ACTCCTCTGTTGAGATGTATCGCCAAGTCTCCTGTCTGGTTGTCGCTGTGTGGAGCTGG
ACTGCTGGAAGGGACGGACTGCAGAAGAGGAACCTGTCATCACCATGGCTTACCATGA



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CAACTGAAATATCTTTCAAGGAAGTGATAGAAGCAATTGCGGAGTGTGCATTTAAGACTT
CACCTTTTCCAATTCTCCTTTGAGAACCATGTGGATTCCCAAAGCAGCAAGCCA
AGATGGCGGAGTACTGCCGACTGATCTTTGGGGATGCCCTTCTCATGGAGCCCCTGGAAA
AATATCCACTGGAATCTGGAGTTCTCTTCCAAGCCCTATGGATTTAATGTATAAAATTT
TGGTGAANAATAAGAANAATCACACAAGTCATCAGAAGGAAGCGCAAAAAGAAGCTCT
CAGAACAAGCCTCCAACACCTACAGTACTCCTCCAGCATGTTTCGAGCCCTCATCCCCAG
GAGCCGGAGAAGCTGATACGGAAGTGACGACGACGATGATGATGACTGTAAAAAT
CTTCAATGGATGAGGGGACTGCTGGAAGTGAGGCTATGGCCACAGAAGAAATGTCTAATC
TGGTGAATATATTACAGCAGTCAAGTTTGAGTCAATTTGAAATTTCAAAAAAAGAAATA
AAAGTTTTGAAATGTCTTCTCGTGGAAACAAAGGACTTGAACAACCTACCAAGTCTC
CAGTGGAAATTTGAGAATAACAAAAATGCAGCTTAGCAGGATATATCCAAAAGGAACAC
GTGTGGATTCATCCAATATATGCCTCAGCTCTTCTGGAATGCAGTTGTCAGATGGTGG
CACTTAATTTCCAGACAATGGACCTGGCTATGCAATAAATATGGGGATGTATGAATACA
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ATCCATTTACTGAAGGCATCGTAGATGGGATAGTGGCAAACACTTTGTCTGTTAAGATTA
TTTCAGGTCAGTTTCTTCTGATAAGAAAGTTGGGACTTACGTGGAAGTAGATATGTTTG
GTTTGCCTGTGGATACAAGGAGGAAGGCATTTAAGACAAAACATCCCAAGGAAATGCTG
TGAATCTGTCTGGGAAGAAGAACCTATTGTGTTCAAAAAGGTGGTTCTTCTACTCTGG
CCTGTTTGAGAATAGCAGTTTATGAAGAAGGAGGTAATTCATTGGCCACCGTATCTTGC
CAGTGAAGCCATTCGGCCAGGCTACTATATCTGTCTAAGGAATGAAAGGAACCAGC
CTCTGACGCTGCCTGTCTTTGTCTACATAGAAGTGAAAGACTATGTGCCAGACACAT
ATGCAGATGTCATCGAAGCTTTATCAAACCAATCCGATATGTGAACCTGATGGAACAGA
GAGTAAGCAATTGGCTGCTTTGACACTGGAAGATGAAGAAGAAGTAAAGAAAGAGGCTG
ATCCTGGAGAAAACCATCAGAGGCTCCAAGTGAAAGCGAAGCAAGTCCAGCAGAAAAATG
GGGTGAATCACACTACAACCTGACACCCAAGCCACCCTCCCAGGCTCTCCACAGCCAGC
CAGCTCCAGGTTCTGTAAGGCACCTGCCAAAACAGAAGATCTTATTAGAGTGTCTTAA
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AAAAGAAACACTACAAGAAATGAAAGACTGGTTAAGAGACACCACAAGAAAACCACTG
ACCTTATCAAAGAACACTACCAAGTATAATGAAATTCAGAATGACTACTTGAGAAGGA
GAGCCGCTTTGAAAAGTCCGCCAAAAGGACAGTAAGAAAAAATCGGAACCCAGCAGCC
CTGATCATGGTTCATCAACGATTGAGCAAGACCTCGCTGCCCTGGATGCTGAAATGACCC
AAAAGTTAATAGACTTGAAGGACAAACAACAGCAGCAGCTGCTTAACTTTCGGCAAGAAC
AGTATTATAGTGAANAATACCAGAAGCGAGAACATATTAAGTGTATTCAAAAAGTTGA
CGGATGTCGCAGAAGAGTGTGAGAAACATCAGTTAAAGAAGCTCAAAGAAATCTGTGAGA
AAGAAAAGAAAGAAATTAAGAAGAAAATGGATAAAAAGAGGCAGGAGAAGATAACAGAAG
CTAAATCCAAAGACAAAAGTCAAGTGAAGAGGAGAGACAGAGATGATCCGTTATATA
TCCAGGAAGTGGTGCAGTATATCAAGAGGCTAGAAGAAGCGCAAAGTAAACGGCAAGAAA
AACTCGTAGAGAAAACACAAGGAAATACGTACAGCAGATCCTGGATGAAAAGCCCAAGGGG
AAGGTTCTCCTCATTCTTGTGCGAAACTTGCCATGAGGATCCCTCTGTTTCCCCCAACT
TTACTCCCCCAACCTCAAGCTCTCAAGTGGTATCTAGATTGGGCGCGGTGTCATA

Restriction Sites:

NotI-NotI

ACCN:

NM_182734

Insert Size:

4000 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_182734.1 , NP_877398.1
RefSeq Size:	6823 bp
RefSeq ORF:	3522 bp
Locus ID:	23236
UniProt ID:	Q9NQ66
Cytogenetics:	20p12.3
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway
Gene Summary:	<p>The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) includes an alternate exon in the 3' end compared to variant 1. This exon contains an in-frame stop codon, and the resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.</p>