

Product datasheet for **SC120539**

PLC delta 3 (PLCD3) (NM_133373) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLC delta 3 (PLCD3) (NM_133373) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLC delta 3
Synonyms:	PLC-delta-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_133373 edited
 CTCAGAGCCGGGCGGGCCAGAGCGGGCCCGCTGCCCTGTCCCCGCGTGCGAGACCC
 GGGCCCGGCCCGCCCGCCCAAGCCATGCTGTGCGGCGCTGGAGGCGTTGCCGCCG
 CCCGCCGAGGAGCCCGGTGGCCGCCAGGTCGAGCCCAAGTCGCGGCGCCGGTCGC
 TCTCCCGTCCCCGCGACTCCCTCCGATGGCGGCACCAAGAGGCCCGGGCTGCGGGCGT
 GAAGAAGATGGGCTGACGGAGGACGAGGACGTGCGCGCCATGCTGCGGGCTCCCGCT
 CCGCAAGATCCGCTCGCGCACGTGGCACAAGGAGCGGCTGTACCGGCTGCAGGAGACGG
 CCTGAGCGTGTGGTTCCAGCGGCGCATCCCGCTGCGCCATCGCAGCACATCTTCTTGT
 GCAGCACATCGAGGCGGTCGCGAGGGCCACCAGTCCGAGGGCTGCGGCGCTTCGGGG
 TGCTTTCGCGCCAGCGCGCTGCCTCACCATCGCCTTCAAGGGCCCGCAAGAACCTGGA
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 CGCGCGCTGGACGCCATGAGCCAGCGGAGCGGCTAGACCACTGGATCCACTCCTATCT
 GCACCGGGCTGACTCCAACCAGGACAGCAAGATGAGCTTCAAGGAGATCAAGAGCCTGCT
 GAGAATGGTCAACGTGGACATGAACGACATGTACGCCTACCTCCTTCAAGGAGTGTGA
 CCACTCCAACAACGACCGTCTAGAGGGGCTGAGATCGAGGAGTCTGCGGGCGGCTGCT
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 CCAACAACCTATCTGACTGACTCCCAGATCGGGGGGCCAGCAGCACCGAGGCCTATGT
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 GGACATGCTGGTACACAGGCGCTGGACTCCCCAAATCCCAGGAGCTGCCATCCCAGA
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TGGCCGGGCTCTGTCCGATCGGGAGGAGGAGGAGGATGACGAGGAGGAAGAAGAGGA
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GGAACCTGAGCTCCCCTTCCCTTCTCAAAGCAAGAAGGGAGCGCTGAGGCATGAAGCCCT
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CAGGCTGGAGTGAATGTTGCAATCATGGCTCACTGCAGCTTTGAACTCCCAGGCTCAAG
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GCTAATGTTTAAATTTTATGTAGAGATGGCGGGGGGGCGGGGTCTCCCTATGTTGCC
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AGCCCTGGAGAAGACAGTAGAATGAGCCTATCTAGTTTAAAAAATAAAGAAGCACGTTGA
TTTCAAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** Please inquire
- ACCN:** NM_133373
- Insert Size:** 3400 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_133373.2
- 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_133373.2](#), [NP_588614.1](#)

RefSeq Size: 3445 bp

RefSeq ORF: 2370 bp

Locus ID: 113026

UniProt ID: [Q8N3E9](#)

Cytogenetics: 17q21.31

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

Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary: This gene encodes a member of the phospholipase C family, which catalyze the hydrolysis of phosphatidylinositol 4,5-bisphosphate to generate the second messengers diacylglycerol and inositol 1,4,5-trisphosphate (IP3). Diacylglycerol and IP3 mediate a variety of cellular responses to extracellular stimuli by inducing protein kinase C and increasing cytosolic Ca(2+) concentrations. This enzyme localizes to the plasma membrane and requires calcium for activation. Its activity is inhibited by spermine, sphingosine, and several phospholipids. [provided by RefSeq, Jul 2008]