

## Product datasheet for **RC209120**

### PLC delta 3 (PLCD3) (NM\_133373) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLC delta 3 (PLCD3) (NM_133373) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLC delta 3
Synonyms:	PLC-delta-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC209120 representing NM\_133373  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTGCGGCCGCTGGAGGCGTTGCCGCCGCCCGCCGAGGAGCCCCGGTGGCCGCCAGGTGCGAG  
 CCCAAGTCGCGGCCGCGTCTCCCGTCCCGCCGACTCCCTCCGATGGCGGCACCAAGAGGCCGG  
 GCTGCGGGCGCTGAAGAAGATGGCCTGACGGAGGACGAGGACGTGCGGCCATGCTGCGGGCTCCCGG  
 CTCGCAAGATCCGCTCGCGCACGTGGCACAAGGAGCGGCTGTACCGGCTGCAGGAGGACGGCTGAGCG  
 TGTGGTTCCAGCGGCGCATCCCGCTGCGCCATCGCAGCACATCTTCTCGTGCAGCACATCGAGGCGGT  
 CCGCGAGGGCCACCAGTCCGAGGGCCTGCGGGCTTGGGGTGCCTTCGCGCCAGCGCGCTGCCTCACC  
 ATCGCTTCAAGGGCCCGCAAGAACCTGGACCTGGCGGCCACGGCTGAGGAAGCGCAGCGCTGGG  
 TGCGGGTCTGACCAAGCTCCGCGCGCTGGACGCCATGAGCCAGCGGAGCGGCTAGACCCTGGAT  
 CCACTCTATCTGCACCGGGCTGACTCCAACCAGGACAGCAAGATGAGCTTCAAGGAGATCAAGAGCCTG  
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 ACAACGACCGTCTAGAGGGGGCTGAGATCGAGGAGTTCCTGCGGGCGCTGCTGAAGCGGCCGGAGCTGGA  
 GGAGATCTTCCATCAGTACTCGGGCGAGGACCGGTGCTGAGTGGCCCTGAGCTGCTGGATTCTGGAG  
 GACCAGGGCGAGGAGGGCGCCACTGGCCCGCGCCAGCAGCTCATTAGACCTATGAGCTCAACGAGA  
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 CTTGGACAACACCCACACGTGTGTGTTCCAGGACATGAACCAGCCCTTGCCACTACTTCATCTCTTCC  
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 TTGCCAGGGATGCCGCTGCGTGGAGCTGGACTGCTGGAGGGGCCAGGAGGGGAGCCGCATCTCA  
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 GCCATCCCAGAGCAGCTGAAGGGCCGGTCTGGTGAAGGAAAGAAGCTGCCCGCTGCTCGGAGCGAG  
 GATGGCCGGGCTCTGTGGATCGGGAGGAGGAGGAGGATGACGAGGAGGAAGAAGAGGAGGTGGAGG  
 CTGCAGCGCAGAGGGCTGGCCAAGCAGATCTCCCGGAGCTGTCGGCCCTGGCTGTGTACTGCCACGC  
 CACCCGCTGCGGACCCTGCACCCTGCCCAACGCCCAACCCCTGCCAGTCACTCCCTCAGCGAG  
 CGCAAAGCCAAGAACTCATTGGGAGGCAGGAAACAGCTTTGTCAGGCACAATGCCCGCCAGCTGACCC  
 GCGTGTACCCGCTGGGGCTGCGGATGAACCTCAGCCAACACAGTCCCCAGGAGATGTGAACTCGGGCTG  
 TCAGCTGGTGGCCTTGAACCTCCAGACGCCAGGCTACGAGATGGACCTCAATGCCGGGCGCTTCTAGTC  
 AATGGGACGTGTGGCTACGTCTAAAACCTGCCTGCCTGCGGCAACCTGACTCGACCTTTGACCCGAGT  
 ACCCAGGACCTCCAGAACCCTCTCAGCATCCAGGTGCTGACTGCACAGCAGCTGCCAAAGCTGAATGC  
 CGAGAAGCCACTCCATTGTGGACCCCTGGTGCATTTAGATCCATGGGGTGCCTGCAGACTGTGCC  
 CGGCAGGAGACTGACTACGTGCTCAACAATGGCTTCAACCCCGCTGGGGCAGACCCCTGCAGTTCCAGC  
 TGCGGGCTCCGGAGCTGGCACTGGTCCGGTTTGGTGGAAAGATTATGACGCCACCTCCCCAATGACTT  
 TGTGGCCAGTTTACACTGCCTTTAGCAGCCTAAAGCAAGGATACCGCCACATACACCTGCTTTCCAAG  
 GACGGGGCCTCACTGTCACCAGCCAGCTTTCATCCAATCCGATCCAGCGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209120 representing NM\_133373  
Red=Cloning site Green=Tags(s)

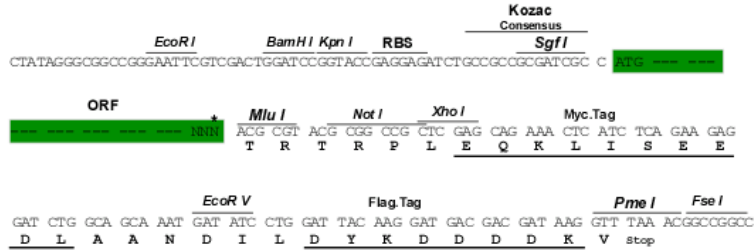
MLCGRWRRCRPPPEPPVAAQVAAQVAAPVALPSPTPSDGGTKRPGLRALKKMGLTEDEDVRAMLRGSRLRKIRSRTWKRLYRLQEDGLSVWFQRRIPRAPSQHIFVQHIEAVREGHQSEGLRRFGGAFAPARCLTIAFKGRRKNLDAAPTAEEAQRWVRGLTKLRARLDAMSQRERLDHWIHSYLHRADSNQDSKMSFKEIKSLRMVNVDMDMYAYLLFKECDHSNDRLEGAEIEEFLLRLLKRPELEEIFHQYSGEDRVLSAPELLEFLEDQGEEGATLARAQQLIQTYELNETAKQHELMTLDFGMMYLLSPEGAALDNHTCVFQDMNQPLAHYFISSHNTYL TDSQIGGPSSTEAYVRAFAQGCRVCLDCWEGPGGEPVIYHGHTLTSKILFRDVVQAVRDHAFTLSPYPVILSLENHCGLEQQAAMARHLCTILGDMLVTQALDSPNPEELPSPEQLKGRVLVKGGKLPAAARSDGRALSDREEEEEDEEEEEVEAAAQRRLAKQISPELSALAVYCHATRLRTHLPAPNAPQPCQVSSLSE RKAKKLI REAGNSFVRHNARQLTRVYPLGLRMNSANYSPEMWSGCQLVALNFQTPGYEMDLNAGRFLVNGQCGYVLKPACLRQPDSTFDPEYPPPTTSLIQVLTAAQLPKLNAEKPHSIVDPLVRIEIHGVPADCARQETDYVLNNGFNPRWGQTLQFQLRAPELALVRFVVEDYDATSPNDFVGQFTLPLSSLKQGYRHIHLLSKDGASLSPATLFIQIRIQR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_133373

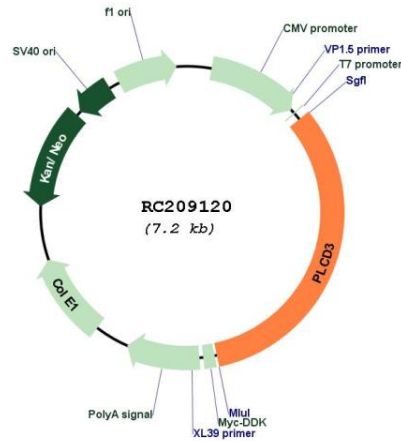
ORF Size: 2367 bp

<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_133373.2</a> , <a href="#">NP_588614.1</a>
<b>RefSeq Size:</b>	3477 bp
<b>RefSeq ORF:</b>	2370 bp
<b>Locus ID:</b>	113026
<b>UniProt ID:</b>	<a href="#">Q8N3E9</a>
<b>Cytogenetics:</b>	17q21.31
<b>Domains:</b>	C2, PI-PLC-X, PI-PLC-Y, PH
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>MW:</b>	89.1 kDa

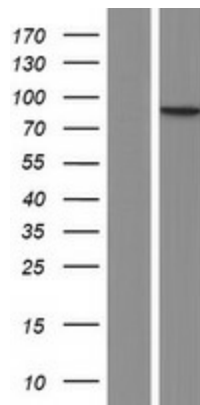
**Gene Summary:**

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]

**Product images:**



Circular map for RC209120



Western blot validation of overexpression lysate (Cat# [LY408836]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209120 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).