

Product datasheet for **RC226161**

PLCD1 (NM_001130964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCD1 (NM_001130964) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLCD1
Synonyms:	NDNC3; PLC-III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC226161 representing NM_001130964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTGCCTGGGGATCCGGAGCCGGAGCCGCTCCAGGGAGCTCTACCTGCAGGAGCGGAGCCTTAAGG
 TGGCGGCCCTCAATGGACGGAGGCTGGGCTACAGGATGATGAGGATCTACAGGCCGCTGCTGAAGGGCAG
 CCAGCTCCTGAAGGTGAAGTCCAGCTCATGGAGGAGAGAGCGCTTCTACAAGTTGCAGGAGGACTGCAAG
 ACCATCTGGCAGGAGTCCCGCAAGGTCATGCGGACCCCGAGTCCAGCTGTTCTCCATCGAGGACATTC
 AGGAGGTGCGAATGGGGCACCGCACGGAGGGTCTGGAGAAGTTCGCCCGTGTGTCGCCGAGGACCCTG
 CTTCTCCATTGTCTTCAAGGACCAGCGCAATACTAGACCTCATCGCCCATCGCCAGCTGATGCCAG
 CACTGGGTGCTGGGGCTGCACAAGATCATCCACTCAGGCTCCATGGACCAGCGTCAGAAGCTACAGC
 ACTGGATTCACTCCTGCTTGCAGAAAGCTGACAAAAACAAGGACAACAAGATGAGCTTCAAGGAGCTGCA
 GAACCTTCTGAAGGAGCTCAACATCCAGGTGGACGACAGCTATGCCCGGAAGATCTTCAGGGAGTGTGAC
 CACTCCCAGACAGACTCCCTGGAGGACGAGGAGATTGAGGCCTTCTACAAGATGTGACCCAGCGGGTGG
 AGATCGACCGCACCTTCGCCGAGGCCGCGGGCTCAGGGGAGACTCTGTCCGGTGGATCAGTTAGTGACGTT
 CCTGCAGCACCAGCAGCGGGAGGAGGGCGGACGGCCTGCGCTGGCCCTCTCCCTCATTGAGCGCTACGAG
 CCCAGCGAGACTGCCAAGGCGCAGCGGCAGATGACCAAGGACGGCTTCTCATGTACTTACTGTCCGGCTG
 ACGGCAGCGCCTTCAGCCTGGCACACCGCCGTGTCTACCAGGACATGGGCCAGCCACTTAGCCACTACCT
 GGTGTCTCTTACACAACACCTACCTGCTGGAGGACCAGCTAGCCGGGCCAGCAGCACTGAAGCCTAC
 ATCCGGGCACTGTGCAAAGGCTGCCGATGCCTGGAGCTTGACTGCTGGGACGGGCCAACCCAGGAACCAA
 TGATCTACCACGGCTATACTTTCACTTCCAAGATCCTCTTCTGCGATGTGCTCAGGGCCATCCGGGACTA
 TGCCCTTCAAGGCGTCCCCCTACCTGTATCCTATCCCTGGAGAACCCTGCACACTGGAGCAGCAGCGC
 GTGATGGCGCGCACCTGCATGCCATCCTGGGCCCATGCTGTTGAACCGACCACTGGATGGGGTACCA
 ACAGCCTGCCCTCCCCTGAGCAACTGAAGGGGAAGATCCTGCTGAAGGGGAAGAAGCTCGGGGGGCTCCT
 GCCCCTGGAGGGGAGGGTGGCCCTGAGGCCACTGTGGTGTGAGACGAAGACGAGGCTGTGAGATGGAG
 GATGAGGCAGTGAGGAGCCGTGTGACGACAAGCCCAAGGAGGACAAGCTCAGGCTAGCACAGGAGCTCT
 CTGACATGGTCATTTACTGCAAGAGTGTCCACTTTGGGGGCTTCTCCAGTCTGGCACCCCTGGACAGGC
 CTTCTACGAGATGGCGTCTTCTCTGAGAACCGTGCCTTCGACTGCTCCAAGAATCAGGAAACGGCTTT
 GTCGCCACAACGTGGGGCACCTGAGCAGAATCTACCCGGCTGGATGGAGAACAGACTCCTCCAACCTACA
 GCCCCTGGAGATGTGGAATGGGGCTGCCAGATCGTGGCCCTGAATTTCCAGACACCTGGGCCAGAGAT
 GGACGTGTACCAGGGCCGCTTCCAGGACAACGGGGCCTGTGGGTACGTGCTGAAGCCCGCTTCTCGCA
 GACCCCAACGGCACCTTTAACCCCGCGCCCTGGCTCAGGGGCCCTGGTGGGCACGGAAGCGGCTCAACA
 TCAGGGTCATTTCCGGGCAGCAGCTGCCAAAAGTCAACAAGAATAAGAATTCAATTGTGGACCCAAAGT
 GACAGTGGAGATCCATGGCGTGAGCCGGGACGTGGCCAGCCGACAGACTGCTGTATCACCACAATGGT
 TTCAACCCATGGTGGGACACGGAGTTTTCGCTTTGAGGTAGTTGTGCCTGACCTTGCCTCATCCGCTTCT
 TGGTGAAGATTATGATGCCTCCTCCAAGAATGACTTCATTGGCCAGAGTACCATCCCCTTGAACAGCCT
 CAAGCAAGGATACCGCCATGTCCACCTCATGTCTAAGAACGGGGACCAGCATCCATCAGCCACCCCTTTT
 GTGAAGATCTCCCTCCAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226161 representing NM_001130964
Red=Cloning site Green=Tags(s)

MQCLGIRSRRSRELYLQERSLKVAALNGRRRLGLQDDEDLQALLKGSQLLKVKSSSWRRERFYKLQEDCK
TIWQESRKVMRTPESQLFSIEDIQEVRMGHRTEGLEKFARDVPEDRCFSIVFKDQRNTLDLIAPSPADAQ
HWVLGLHKIIHHS G SMDQRQKLQHWIHSCLRKADKNKDNKMSFKELQNFLKELNIQVDDSYARKIFRECD
HSQTD SLEDEEIEAFYKMLTQRVEIDRTFAEAAGSGETLSVDQLVTFLQHQQREEAAGPALALSLIERYE
PSETAKAQRQMTKDGFLMYLLSADGSAFSLAHRVYQDMGQPLSHYLVSSSHNTYLLLEDQLAGPSSTEAY
IRALCKGCRCLELDCWDGPNQEPIIYHGYTFTSKILFCDVLRRAIRDYAFKASPYPVILSLENHCTLEQQR
VMARHLHAILGPMLLNRP LDGVTNSLPSPEQLK GKILLK GKLLGGLLPPGGEGGPEATVVSDEDEAAEME
DEAVRSRVQHKPKEDKLRLAQELSDMVIYCKSVHFGGFSSPGTPGQAFYEMASFSENRALRLLQESGNF
VRHNVGHL SRIYPAGWRTDSSNYSPEMWNCGCQIVALNFQTPGPEMDVYQGRFQDNGACGYVLKPAFLR
DPNGTFNPRALAQGPWWARKRLNIRVISGQQLPKVNKNKNSIVDPKVTVEIHGVS RDVASRQTAVITNNG
FNPWWDEFAFEVVVPDLALIRFLVEDYDASSKNDFIGQSTIPLNSLKQGYRHHVHLSKNGDQHP SATLF
VKISLQD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001130964

ORF Size: 2331 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001130964.2](#)

RefSeq ORF: 2334 bp

Locus ID: 5333

UniProt ID: [P51178](#)

Cytogenetics: 3p22.2

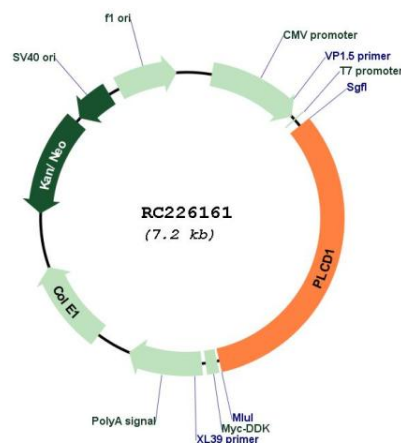
Protein Families: Druggable Genome

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

MW: 88 kDa

Gene Summary: This gene encodes a member of the phospholipase C family. Phospholipase C isozymes play critical roles in intracellular signal transduction by catalyzing the hydrolysis of phosphatidylinositol 4,5-bisphosphate (PIP2) into the second messengers diacylglycerol (DAG) and inositol triphosphate (IP3). The encoded protein functions as a tumor suppressor in several types of cancer, and mutations in this gene are a cause of hereditary leukonychia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC226161