

Product datasheet for **RG226161**

PLCD1 (NM_001130964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCD1 (NM_001130964) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLCD1
Synonyms:	NDNC3; PLC-III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG226161 representing NM_001130964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTGCCTGGGGATCCGGAGCCGGAGCCGCTCCAGGGAGCTCTACCTGCAGGAGCGGAGCCTTAAGG
 TGGCGGCCTCAATGGACGGAGGCTGGGCTACAGGATGATGAGGATCTACAGGCCGCTGCTGAAGGGCAG
 CCAGCTCCTGAAGGTGAAGTCCAGCTCATGGAGGAGAGAGCGCTTCTACAAGTTGCAGGAGGACTGCAAG
 ACCATCTGGCAGGAGTCCCGCAAGGTCATGCGGACCCCGAGTCCAGCTGTTCTCCATCGAGGACATTC
 AGGAGGTGCGAATGGGGCACCGCACGGAGGGTCTGGAGAAGTTCGCCCGTGATGTGCCGAGGACCCTG
 CTTCTCCATTGTCTTCAAGGACCAGCGCAATACTAGACCTCATCGCCCATCGCCAGCTGATGCCAG
 CACTGGGTGCTGGGGCTGCACAAGATCATCCACTCAGGCTCCATGGACCAGCGTCAGAAGCTACAGC
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 GGTGTCTCTTACACAAACCTACCTGCTGGAGGACCAGCTAGCCGGGCCAGCAGCACTGAAGCCTAC
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 ACAGCCTGCCCTCCCCTGAGCAACTGAAGGGGAAGATCCTGCTGAAGGGGAAGAAGCTCGGGGGGCTCCT
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 CTGACATGGTCATTTACTGCAAGAGTGTCCACTTTGGGGGCTTCTCCAGTCTGGCACCCCTGGACAGGC
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 TGGTGAAGATTATGATGCCTCCTCCAAGAATGACTTCATTGGCCAGAGTACCATCCCCTTGAACAGCCT
 CAAGCAAGGATACCGCCATGTCCACCTCATGTCTAAGAACGGGGACCAGCATCCATCAGCCACCCCTTTT
 GTGAAGATCTCCCTCCAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226161 representing NM_001130964
Red=Cloning site Green=Tags(s)

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MQCLGIRSRSRRELYLQERSLKVAAALNGRRRLGLQDDEDLQALLKGSQLLKVKSSSWRRERFYKLQEDCK
TIWQESRKVMRTPESQLFSIEDIQEVRMGHRTEGLEKFA RDVPEDRCF SIVFKDQRNTLDLIAPSPADAQ
HWVLGLHKIIHHS GMSDQRQKLQHWIHSCLRKADKNKDNKMSFKELQNFLKELNIQVDDSYARKIFRECD
HSQTDLSLEDEEIEAFYKMLTQRVEIDRTFAEAAGSGETLSVDQLVTFLQHQQREEAAGPALALSLIEREY
PSETAKAQRQMTKDGFLMYLLSADGSFAFLAHRVYQDMGQPLSHYLVSSSHNTYLLLEDQLAGPSSTEAY
IRALCKGCRCLLEDCWDGPNQEPIIYHGYTFTSKILFCDVLR AIRDYAFKASPYPVILSLENHCTLEQQR
VMARHLHAILGPMLLNRP LDGVTNSLPSPEQLKGIKLLKGGKLG LPPGGEGGPEATVVSDEDEAAEME
DEAVRSRVQHKPKEDKLR LAQELSDMVIYCKSVHFGGFS SPGTPGQAFYEMASFSENRALRLLQESGNGF
VRHNVGHL SRIYPAGWRTDSSNYSPEMWNNGCQIVALNFQTPGPEMDVYQGRFQDNGACGYVLPKPAFLR
DPNGTFNPRALAQGPWARKRLNIRVISGQQLPKVKNKNKNSIVDPKVTVEIHGVS RDVASRQTAVITNNG
FNPWWDT EFAFEVVV PDLALIRFLVEDYDASSKNDFIGQSTIPLNSLKQGYRHVHLSMKNGDQHP SATLF
VKISLQD
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130964

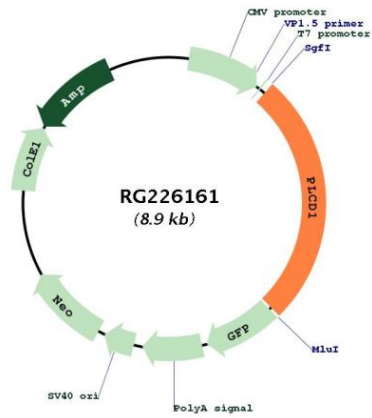
ORF Size: 2331 bp

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:	<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_001130964.2
RefSeq Size:	2976 bp
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
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 RG226161