

## Product datasheet for **RG208263**

### PLCD1 (NM\_006225) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLCD1 (NM_006225) 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:

>RG208263 representing NM\_006225  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTCGGGCCGGACTTCTGACCCTGCACGGCTACAGGATGATGAGGATCTACAGCCGCTGCTGA  
 AGGGCAGCCAGCTCCTGAAGGTGAAGTCCAGCTCATGGAGGAGAGAGCGCTTCTACAAGTTGCAGGAGGA  
 CTGCAAGACCATCTGGCAGGAGTCCCGCAAGGTATGCGGACCCCGGAGTCCCAGCTGTTCTCCATCGAG  
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 ACCGCTGCTTCTCCATTGCTTCAAGGACCAGCGCAATACACTAGACCTCATCGCCCCATCGCCAGCTGA  
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 CGCTTCTTGGTGAAGATTATGATGCCTCCTCCAAGAATGACTTATTGGCCAGAGTACCATCCCCTTGA  
 ACAGCCTCAAGCAAGGATACGCCATGTCCACCTCATGTCTAAGAACGGGGACCAGCATCCATCAGCCAC  
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**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

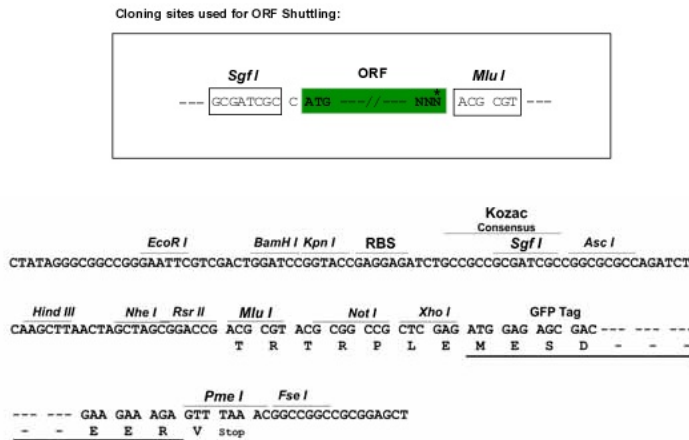
**Protein Sequence:** >RG208263 representing NM\_006225  
Red=Cloning site Green=Tags(s)

```
MDSGRDFLTLHGLQDDEDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIWQESRKVMRTPESQLFSIE
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RVEIDRTFAEAAGSGETLSVDQLVTFLQHQQREEAAGPALALSLIERYEPSETAKAQRQMTKDGFLMYLL
SADGSAFSLAHRVYQDMGQPLSHYLVSSSHNTYLLLEDQLAGPSSTEAYIRALCKGCRCLELDCWDGPNQ
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VTNSLPSPEQLKGIKLLKGGKLLGGLPPGGEGGPEATVVSDEDEAAEMEDEAVRSRVQHKPKEDKLRLAQ
ELSDMVIYCKSVHFGGFSPPGTPGQAFYEMASFENRALRLQESGNGFVRHNVGHLRIYIPAGWRTDSS
NYSPEVMWNGGCQIVALNFQTPGPEMDVYQGRFQDNGACGYVLPKPAFLRDPNGTFNPRALAQGPWWARKR
LNIRVISGQQLPKVKNKNSIVDPKVTVEIHGVS RDVASRQTAVITNNGFNPWWDEFAFEVVVVDLALI
RFLVEDYDASSKNDFIGQSTIPLNSLKQGYRHVHLSKNGDQHP SATLFVKISLQD
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006225

**ORF Size:** 2268 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\\_006225.4](#)

**RefSeq Size:** 2707 bp

**RefSeq ORF:** 2271 bp

**Locus ID:** 5333

**UniProt ID:** [P51178](#)

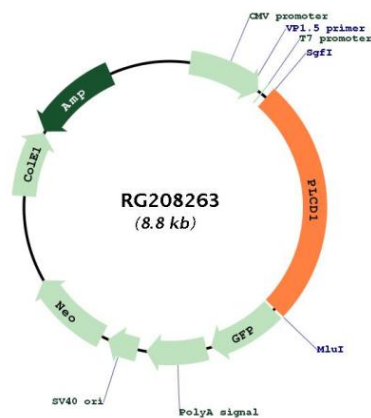
**Cytogenetics:** 3p22.2

**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 RG208263