

Product datasheet for **SC303752**

PLCD1 (NM_006225) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCD1 (NM_006225) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLCD1
Synonyms:	NDNC3; PLC-III
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_006225 edited
 CCGCACTCCGCTCGGACCCAGGCCCGCGGTGCTGCTCGCTACTCAAGTGAGTCCCAGCGGT
 GCCCTCCCGCCGCGCCGCCCGTCCGGCATGGACTCGGGCCGGGACTTCCTGACCCTGCA
 CGGCTACAGGATGATGAGGATCTACAGGCGTCTGAAGGGCAGCCAGCTCCTGAAGGT
 GAAGTCCAGCTCATGGAGGAGAGAGCGCTTCTACAAGTTGAGGAGGACTGCAAGACCAT
 CTGGCAGGAGTCCCGCAAGGTCATGCGGACCCCGAGTCCCAGCTGTTCTCCATCGAGGA
 CATTGAGGAGTCCGAATGGGGCACCGGAGGGTCTGGAGAAGTTGCCCCGTGATGT
 GCCCGAGGACCGCTGCTTCTCCATTGTCTTCAAGGACCAGCGCAATACACTAGACCTCAT
 CGCCCCATCGCCAGCTGATGCCAGCACTGGGTGCTGGGGCTGCACAAGATCATCCACCA
 CTCAGGCTCCATGGACCAGCGTCAGAAGCTACAGCACTGGATTCACTCCTGCTTGCAGAA
 AGCTGACAAAAACAAGGACAACAAGATGAGCTTCAAGGAGCTGCAGAACTTCCTGAAGGA
 GCTCAACATCCAGGTGGACGACAGCTATGCCCGGAAGATCTTCAGGGAGTGTGACCACTC
 CCAGACAGACTCCCTGGAGGACGAGGAGATTGAGGCCTTCTACAAGATGCTGACCCAGCG
 GGTGGAGATCGACCGCACCTTCGCCGAGGCCGCGGGCTCAGGGGAGACTCTGTGGTGG
 TCAGTTAGTGACGTTCTGCAGCACCAGCAGCGGGAGGAGCGGCAGGGCCTGCGCTGGC
 CCTCTCCCTCATTGAGCGCTACGAGCCAGCGAGACTGCCAAGGCGCAGCGGCAGATGAC
 CAAGGACGGCTTCTCATGTACTTACTGTGCGGTGACGGCAGCGCCTTACGCTTGGCACA
 CCGCGTGTCTACCAGGACATGGGCCAGCCACTTAGCCACTACCTGGTGTCTTCTTACA
 CAACACCTACCTGCTGGAGGACCAGCTAGCCGGGCCAGCAGCACTGAAGCCTACATCCG
 GGCAGTGTGAAAGGCTGCCGATGCCTGGAGCTTACTGCTGGGACGGGCCAACAGGA
 ACCAATCATCTACCACGGCTATACTTTCACTTCCAAGATCCTCTTCTGCGATGTGCTCAG
 GGCCATCCGGGACTATGCCTTCAAGCGTCCCCCTACCCTGTATCCTATCCCTGGAGAA
 CCACTGCACACTGGAGCAGCAGCGGTGATGGCGGGCAGCTGCATGCCATCCTGGGGCC
 CATGCTGTTGAACCGACCACTGGATGGGTACCAACAGCTGCCCTCCCTGAGCAACT
 GAAGGGGAAGATCCTGCTGAAGGGGAAGAAGCTCGGGGGCTCCTGCCCCCTGGAGGGGA
 GGGTGGCCCTGAGGCCACTGTGGTGTGACAGCAAGACGAGGCTGCTGAGATGGAGGATGA
 GGCAGTGAGGAGCCGTGTGACGACAAGCCCAAGGAGGACAAGCTCAGGCTAGCACAGGA
 GCTCTGTGACATGGTCATTTACTGCAAGAGTGTCCACTTTGGGGCTTCTCCAGTCTGG
 CACCCCTGGACAGGCCTTCTACGAGATGGCGTCTTCTCTGAGAACCCTGCCCTTCGACT
 GCTCCAAGAATCAGGAAACGGCTTTGTCCGCCACAACGTGGGGCAGCTGAGCAGAATCTA
 CCCGGCTGGATGGAGAACAGACTCCTCCAACACAGCCCGTGGAGATGTGGAATGGGGG
 CTGCCAGATCGTGGCCCTGAATTTCCAGACACCTGGGCCAGAGATGGACGTGTACCAGGG
 CCGCTTCCAGGACAACGGGGCCTGTGGGTACGTGCTGAAGCCCGCCTTCTGCGAGACCC
 CAACGGCACCTTTAACCCCGCGCCCTGGCTCAGGGGCCCTGGTGGGCACGGAAGCGGCT
 CAACATCAGGGTCATTTCCGGGCAGCAGCTGCCAAAAGTCAACAAGAATAAGAATTCAAT
 TGTGGACCCAAAGTGACAGTGGAGATCCATGGCGTGAGCCGGGACGTGGCCAGCCGCCA
 GACTGTGTATCACCAACAATGGTTTCAACCCATGGTGGGACACGGAGTTTGCSTTTGA
 GGTAAGTGTGCTGACCTTGCCTCATCCGCTTCTTGGTGGAAAGATTATGATGCCTCCTC
 CAAGAATGACTTCATTGGCCAGAGTACCATCCCCTTGAACAGCCTCAAGCAAGGATACCG
 CCATGTCCACCTCATGTCTAAGAACGGGGACAGCATCCATCAGCCACCCTCTTTGTGAA
 GATCTCCCTCCAGGACTAGGCTGGAGGAAGCCAGTGGGGTCCCCCTGAGTGGGCTGGGC
 CCTCTGTCCACATGTGGGGACAGGGCTGGTGTGGCTGCTCCAGCCTCTTGTGCTAGAGCT
 AGGCCCCCAAATTGCCTTACGCCCTAACATAGTGTCTGCTGCTGCCCTCCCTGGGGACAG
 GAGCTAGCCAGTCCCTGGAGCTGCTTTCATTCCGTTAGGAATAACACTGCAGCCCTCT
 CCACCCTCCGGCCAGCGAGTGGTCAAGGATTTTTATAAAAATCACGATAAGATTAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: NotI-NotI

ACCN: NM_006225

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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_006225.1</u> , <u>NP_006216.1</u>
RefSeq Size:	2627 bp
RefSeq ORF:	2271 bp
Locus ID:	5333
UniProt ID:	<u>P51178</u>
Cytogenetics:	3p22.2
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon compared to transcript variant 1, and initiates translation from an in-frame upstream AUG, resulting in a shorter isoform (2) with a different N-terminus compared to isoform 1.</p>