

Product datasheet for **SC331947**

Phospholipase D2 (PLD2) (NM_001243108) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase D2 (PLD2) (NM_001243108) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase D2
Synonyms:	PLD1C
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC331947 representing NM_001243108.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGACGGCGACCCCTGAGAGCCTCTTCCCCTGGGGACGAACTGGACTCCAGCCAGCTCCAGATGGAG
TCCGATGAGGTGGACACCCTGAAGGAGGGAGAGGCCAGCCGACCGGATGCACCCGTTTCTGGCCATC
TATGAGCTTCAGTCTCTGAAAGTGCACCCTTGGTGTTCGCACCTGGGGTCCCTGTACAGCCCAGGTG
GTGGCACCAGAAAGATATACCAGCGGATCCAAGGTGGAACTGCACCTGTATTCTGTCCGCTTGACT
CACGGCGACTTTTCTGGACAACCAAGAAGAAATACCGTCAATTTTCAGGAGCTGCATCGGGACCTCCTG
AGACACAAGTCTTGATGAGTCTGCTCCCTCTGGCTCGATTTGCCGTTGCCTATTCTCCAGCCCAGAT
GCAGGCAACAGAGAGATGCCCTCTTACCCCGGGCAGGTCTGAGGGCTCCACCAGACATGCAGCCAGC
AAACAGAAATACCTGGAGAATTACCTCAACCGTCTCTTGACCATGTCTTTCTATCGCAACTACCATGCC
ATGACAGAGTTTCTGGAAGTCACTCAGTGTCTTTATCCCGACTTGGGCCGAAAGGACTGGAGGGG
ATGATCCGGAAGCGCTCAGGTGGCCACCGTGTCTGCTCACCTGTGTGGCCGAGACCAAGTTTGT
TATCGCTGGTCCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGTGCTCGAGACAGGT
GCCATCTCATTTGTTGAGCTCTTTGACCCTGGCTTTGAGGTGCAAGTGGGAAAAGGAGCACGGAGGCA
CGGCACGGCGTGGGATCGATACCTCCACAGGCTCTTATTCTCAAGTGCAGCAGCTACCGGCAGGCA
CGGTGGTGGGCCAAGAGATCACTGAGCTGGCACAGGGCCAGGACAGACTTCTACAGCTGCACCCG
CATGACAGCTACGCCCCACCCGGCCTGGGACCTTGGCCCGTGGTTTGTGAATGGGGCAGGTTACTTT
GCTGCTGTGGCAGATGCCATCCTTCGAGCTCAAGAGGAGATTTTCATCACAGACTGGTGGTTGAGTCT
GAGGTTTACCTGAAGCGTCCGGCCATTCAGATGACTGGAGACTGGACATTATGCTCAAGAGGAAGGCG
GAGGAGGGTGTCCGTGTGTCTATTCTGCTGTTAAAGAAGTGAATTGGCCTTGGGCATCAACAGTGGC
TATAGCAAGAGGGCGCTGATGCTGCTGCACCCCAACATAAAGGTGATGCGTCACCCAGACCAAGTGAAG
TTGTGGGCCATCATGAGAAGCTCCTGGTGGTGGACCAAGTGGTAGCATTCTTGGGGGACTGGACCTT
GCCATATGGCCGCTGGGATGACCTGCACCTACCGACTGACTGACCTTGGAGACTCCTCTGAATCAGCTGCC
TCCAGCCTCCACCCCGCGCCAGACTACCAGCCACCCAGACCTCTCTCACAACCAATTCTTCTGG
CTGGGCAAGGACTACAGCAATCTTATACCAAGGACTGGGTGCAGCTGGACCGGCCTTTCGAAGATTTT
ATTGACAGGGAGACGACCCTCGGATGCCATGGCGGGACGTTGGGGTGGTCTCATGCCATACCGGCC
CGGGACCTTGGCCGGCATTATCCAGCGCTGAACTTACCAAGACCACCAAGGCAAGTACAAGACT
CCCACATACCCCTACCTGCTTCCAAGTCTACCAGCACGGCCAATCAGTCCCCTCACACTTCCAGGA
GGCAGTGCACCACCGTACAGGTCTTGGCATCAGTGGACCGCTGGTCCAGGAGGACTCTGGAGAATCC
ATCCTCAATGCCTACCTGCACACCATCAGGAGAGCCAGCACTTCTCTACATTGAGAATCAGTTCTTC
ATTAGCTGCTCAGATGGGCGGACGGTCTGAACAAGGTGGGCGATGAGATTGTGGACAGAATCCTGAAG
GCCACAACAGGGGTGGTGTACCGAGTCTACGTGCTTTTGGCCCTTACTCCCTGGCTTCGAGGGTGAC
ATCTCCACGGGCGGTGGCAACTCCATCCAGGCCATTCTGCACTTACTTACAGGACCCTGTGTCTGGG
GAGTATTCAATCTGCATCGCCTTAAAGCAGCCATGGGGACAGCATGGCGGGACTATATTTCCATCTGC
GGGCTTCGTACACACGGAGAGCTGGCGGGCACCCGCTCTCGGAGCTCATCTACATCCACAGCAAGGTG
CTCATCGCAGATGACCGGACAGTCACTTGGTCTGCAACATCAATGACCGGAGCTTGTGGGGAAG
CGGGACAGTGAAGTGGCGTGTGATCGAGGACACAGAGACGGAACCATCCCTCATGAATGGGGCAGAG
TATCAGGCGGGCAGTGTGATTCTTGGAGCAAATACCCGGCAGACTTGGATCTCCGAGACCCCATCTGT
GATGACTTCTCCAGTTGTGGCAAGACATGGCTGAGAGCAACGCAATATCTATGAGCAGATCTTCCGC
TGCTGCCATCCAATGCCACGCTTCCCTGCGGACTCTCCGGGAGTACGTGGCCGTGGAGCCCTTGCC
ACGGTCAGTCCCCCTTGGCTCGGTCTGAGCTCACCAGGTCCAGGGCCACCTGTCACCTTCCCCCTC
AAGTTCTAGAGGATGAGTCTTGTGCCCGCTGGGTAGCAAGGAGGGCATGATCCCCCTAGAAGTG
TGGACATAG
  
```

Restriction Sites: SgfI-RsrII
ACCN: NM_001243108
Insert Size: 2769 bp

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).
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_001243108.1
RefSeq Size:	3481 bp
RefSeq ORF:	2769 bp
Locus ID:	5338
UniProt ID:	O14939
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Metabolic pathways
MW:	104.7 kDa
Gene Summary:	<p>The protein encoded by this gene catalyzes the hydrolysis of phosphatidylcholine to phosphatidic acid and choline. The activity of the encoded enzyme is enhanced by phosphatidylinositol 4,5-bisphosphate and ADP-ribosylation factor-1. This protein localizes to the peripheral membrane and may be involved in cytoskeletal organization, cell cycle control, transcriptional regulation, and/or regulated secretion. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 1. The resulting isoform (PLD2B) has the same N- and C-termini but is shorter compared to isoform PLD2A.</p>