

Product datasheet for **SC324003**

Phospholipase D2 (PLD2) (NM_002663) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase D2 (PLD2) (NM_002663) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase D2
Synonyms:	PLD1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002663.2
 CTCGGCCGGGGCGTGGGCTCCGGCTGCAGCTCCGGTCTGCTCTTGGCTCGGGAACCCC
 CGCGGGCGCTGGCTCCGCTGCCAGGGATGACGGCGACCCTGAGAGCCTTCCCCACT
 GGGGACGAACTGGACTCCAGCCAGCTCCAGATGGAGTCCGATGAGGTGGACACCCGAAAG
 GAGGGAGAGGACCCAGCCAGCCGGATGCACCCGTTTCTGGCCATCTATGAGCTTCAGTCT
 CTGAAAGTGCACCCCTTGGTGTTCGCACCTGGGGTCCCTGTCACAGCCAGGTGGTGGGC
 ACCGAAAGATATACCAGCGGATCCAAGGTGGGAACCTGCACTCTGTATTCTGTCCGCTTG
 ACTCACGGCGACTTTTCTGGACAACCAAGAAGAAATACCGTCATTTTCAGGAGCTGCAT
 CGGGACCTCCTGAGACACAAAGTCTTGATGAGTCTGCTCCCTCTGGCTCGATTTGCCGTT
 GCCTATTCTCCAGCCGAGATGCAGGCAACAGAGAGATGCCCTCTACCCCGGGCAGGT
 CCTGAGGGCTCCACCAGACATGCAGCCAGCAAACAGAAATACCTGGAGAATTACCTCAAC
 TGTCTCTTGACCATGTCTTTCTATCGCAACTACCATGCCATGACAGAGTTCCTGGAAGTC
 AGTCAGCTGTCCCTTATCCCGGACTTGGGCCGCAAGGACTGGAGGGGATGATCCGGAAG
 CGCTCAGGTGGCCACCGTGTTCCTGGCCTCACCTGCTGTGGCCGAGACCAAGTTTGTAT
 CGCTGGTCCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGTGCCTCGAG
 ACAGGTGCCATCTCATTGTTCAGCTCTTTGACCCTGGCTTTGAGGTGCAAGTGGGGAAA
 AGGAGCACGGAGGCACGGCAGCGGTGCGGATCGATACCTCCACAGGTCTTATTCTC
 AAGTGCAGCAGCTACCGCAGGCACGGTGGTGGGCCAAGAGATCACTGAGCTGGCACAG
 GGCCACGGCAGAGACTTCTACAGCTGCACCGGCATGACAGCTACGCCCCACCCCGGCCT
 GGGACCTTGGCCCGTGGTTGTGAATGGGGCAGGTTACTTTGCTGCTGTGGCAGATGCC
 ATCCTTCGAGCTCAAGAGGAGATTTTCATCACAGACTGGTGGTTGAGTCTGAGGTTTAC
 CTGAAGCGTCCGGCCATTGAGATGACTGGAGACTGGACATTATGCTCAAGAGGAAGGCG
 GAGGAAGGTGTCCTGTGTCTATTCTGCTGTTAAAGAAGTGAATTGGCCTTGGGCATC
 AACAGTGGCTATAGCAAGAGGGCGCTGATGCTGCTGCACCCCAACATAAAGGTGATGCGT
 CACCCAGACCAAGTGACGTTGTGGGCCATCATGAGAAGCTCCTGGTGGTGGACCAAGTG
 GTAGCATTCTGGGGGACTGGACCTTGCCTATGGCCGCTGGGATGACCTGCACTACCGA
 CTGACTGACCTTGGAGACTCCTTGAATCAGCTGCCTCCAGCCTCCACCCCGGCCCA



[View online »](#)

GACTCACCAGCCACCCAGACCTCTCTACAACCAATTCTTCTGGCTGGGCAAGGACTAC
 AGCAATCTTATACCAAGGACTGGGTGCAGCTGGACCGCCTTTTGAAGATTTTCATTGAC
 AGGGAGACGACCCCTCGGATGCCATGGCGGGACGTTGGGGTGGTCCATGGCCTACCG
 GCCCGGGACCTTGCCCGGCACCTCATCCAGCGCTGGAACCTCACCAAGACCACCAAGGCC
 AAGTACAAGACTCCCATATACCCTACCTGCTTCCAAGTCTACCAGCACGGCCAATCAG
 CTCCCCCTCACACTTCCAGGAGGGCAGTGCACCACCGTACAGGTCTTGGCATCAGTGGAC
 CGCTGGTCAGCAGGGACTCTGGAGAACTCCATCCTCAATGCCTACCTGCACACCATCAGG
 GAGAGCCAGCACTTCTCTACATTGAGAATCAGTTCTTCATTAGCTGCTCAGATGGGCGG
 ACGTTTCTGAACAAGGTGGGCGATGAGATTGTGGACAGAATCCTGAAGGCCACAAACAG
 GGGTGGTGTACCGAGTCTACGTGCTTTTGCCTTACTCCCTGGCTTCGAGGGTGACATC
 TCCACGGGCGGTGGCAACTCCATCCAGGCCATTCTGCACCTTACTTACAGGACCTGTGT
 CGTGGGGAGTATTCAATCCTGCATCGCCTTAAAGCAGCCATGGGGACAGCATGGCGGGAC
 TATATTTCCATCTGCGGGCTTCGTACACACGGAGAGCTGGGCGGGCACCCCGTCTCGGAG
 CTCATCTACATCCACAGCAAGGTGCTCATCGCAGATGACCGGACAGTTCATTGGTTCT
 GCAAACATCAATGACCGGAGCTTCTGGGAAGCGGGACAGTGAAGCTGGCCGTGCTGATC
 GAGGACACAGAGACGGAACCATCCCTCATGAATGGGGCAGAGTATCAGGCGGGCAGGTTT
 GCCTTGAGTCTGCGGAAGCACTGCTTCGGTGTGATTCTTGGAGCAATACCCGGCCAGAC
 TTGGATCTCCGAGACCCCATCTGTGATGACTTCTTCCAGTTGTGGCAAGACATGGCTGAG
 AGCAACGCCAATATCTATGAGCAGATCTTCCGCTGCCTGCCATCCAATGCCACGCGTTCC
 CTGCGGACTCTCCGGGAGTACGTGGCCGTGGAGCCCTTGGCCACGGTCACTCCCCCTTG
 GCTCGGTCTGAGCTCACCCAGGTCCAGGGCCACCTGGTCCACTTCCCCCTCAAGTTCTTA
 GAGGATGAGTCTTTGCTGCCCCCGCTGGGTAGCAAGGAGGGCATGATCCCCCTAGAAGTG
 TGGACATAGTTGAGGCCCCCGTCAAGGAGAGGTACCAGCTGCTGTGCCCCACCAGCTCT
 GGCTCCCTGCCCTTAAACCCCAAGGACTGAGGGCAGTGCCTTTGAGATCTGGGGAGGCA
 GGCATTCTGAAGGGAAGTAGAGGTGTTACAGAGGACCCTTACGTGAGAAATAGCTGAAA
 AGGGCACTCCCAACCCTGGGCTGGGGAGGAGGAGAGTCCCAGAGCTCATCCCCCTGC
 TGCCAGTGCAAACCACTTCTCCATGCTGCAAAGGAGAAGCACAGCTCCTGCCAGGGTGA
 GCAGGGTCAAGCCTTTATTCCAGGAGAAGGGGCTCTGCCCCAGGCCCTACTACCCATT
 GTTCCCTTCTCTTCTGCCCTTGAACCCCTCCCTGTCCAGGGCCCTCCAGCCATT
 GCTGCCAAGGTGGAGGGAAGGATAAAGCCACTTCTGGCTTACGCCCCACCAGGGGAAGG
 AAGGAGGGCACATTAACCTCCACCAGCCTGCTGACAGACACTAACTTTGTATCCGTT
 CAATAAGCATTTATAAATAAAGGTGTAGAAAAGGTTAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** ECoRI-NOT
- ACCN:** NM_002663
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_002663.2, NP_002654.2</u>
RefSeq Size:	3475 bp
RefSeq ORF:	2802 bp
Locus ID:	5338
UniProt ID:	<u>O14939</u>
Cytogenetics:	17p13.2
Domains:	PX, PLDc, PH
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Metabolic pathways
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 (1) represents the longer transcript and encodes the longer isoform (PLD2A).</p>