

Product datasheet for **RC226305**

Phospholipase D1 (PLD1) (NM_001130081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase D1 (PLD1) (NM_001130081) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLD1
Synonyms:	CVDD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226305 representing NM_001130081 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCACTGAAAAACGAGCCACGGGTAATACCTCTGCACTGCAGAAAATTGCTGCTGACATGAGTAATA
TCATAGAAAATCTGGACACGCGGAACTCCACTTTGAGGGAGAGGAGGTAGACTACGACGTGTCTCCAG
CGATCCCAAGATAACAAGAAGTGATATCCCTTTCTCTGCTATTTATAACACTCAAGGATTTAAGGAGCCT
AATATACAGACGTATCTCTCCGGCTGTCCAATAAAGCACAAGTTCTGGAAGTGAACGCTTCACATCTA
CAACAAGGGTACCAAGTATTAATCTTTACACTATTGAATTAACACATGGGGAATTTAAATGGCAAGTTAA
GAGGAAATTAAGCATTTTCAAGAATTTACAGAGAGCTGCTCAAGTACAAAGCCTTTATCCGCATCCCC
ATTCCTACTAGAAGACACACGTTTAGGAGGCAAAACGTCAGAGAGGAGCCTCGAGAGATGCCAGTTTGC
CCGTTTCATCTGAAAACATGATAAGAGAAGAACAATTCCTTGGTAGAAGAAAACAACCTGGAAGATTACTT
GACAAAGATACTAAAAATGCCCATGTATAGAACTATCATGCCACAACAGAGTTTCTTGATATAAGCCAG
CTGTCTTTCATCCATGATTTGGGACCAAGGGCATAGAAGGTATGATAATGAAAAGATCTGGAGGACACA
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GAATTCAAAATTAAGGTGGGGAAGAAGGAGACAGAAAACGAAATATGGAATCCGAATTGATAATCTTTCAA
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CCAGAAACATGGCACCAACTTTCTCAAAGATCATCGATTTGGGTGATGCTGCTATCCAAGAGAATGCT
TTAGCTAAATGGTATGTTAATGCCAAAGGATATTTGAAGATGTGGCAAATGCAATGGAAGAGGCAAATG
AAGAGATTTTTATCACAGACTGGTGGCTGAGTCCAGAAATCTTCTGAAACGCCAGTGGTTGAGGGAAA
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CTGCCGAATGGAGTCTATGGAATCCTTAAGACTCAAAGATAAAAATGAGCCTGTCAAAACCTACCCAT
 CCAGAAGAGTATTGATGATGTGGATTCAAACCTGAAAGGAATAGGAAAGCCAAGAAAGTTCTCCAAATTT
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 AGGACATTCAGGATCCAGTGAGTGACAAATTTCAAGGAGGTGTGGGTTTCAACAGCAGCTCGAAATGC
 TACAATTTATGACAAGGTTTTCCGGTGCCTTCCAATGATGAAGTACACAATTTAATTGAGCTGAGAGAC
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 GATTTTTGGTGAATCCCTTTTATTTCTGTCTGAAGAAAGCCTACTGCCTTCTGTTGGGACCAAGA
 GGCCATAGTGCCCATGGAGGTTTGGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226305 representing NM_001130081
 Red=Cloning site Green=Tags(s)

MSLKNEPRVNTSALQKIAADMSNIENLDRELHFEGEEVDYDVSPSPDKIQEVYIPFSAIYNTQGFKEP
 NIQTYLSGCPIKAQVLEVERFTSTRVPSINLYTIELTHGEFKWQVQRKFKHFQEFHRELLKYKAFIRIP
 IPTRRHTFRRQNVREPREMPSLPRSENMIREEQFLGRRKQLEDYLTKILKMPMYRNYHATTEFLDISQ
 LSFIDHDLGPKGIEGMIMKRSGGHRIPGLNCCGQGRACYRWSKRWLIVKDSFLLYMKPDSGAI AFVLLVVK
 EFKIKVGKKEETKYGIRIDNLSRTLILKNSYRHRWWGGAIEEFIQKHGTNFKDHRFGSYAAIQENA
 LAKWYVNAKGYFEDVANAMEEANEIIFITDWLSP EIFLKR PVVEGNRWRLDCILKRKAQQGVRIFIMLY
 KEVELALGINSEYTKRMLMRLHPNIKVMRHPDHSSTVYLWAHHEKLVIIDQSVAFVGGIDLAYGRWDDN
 EHRLTDVGSVKRVTSGPSLGSPPAAMESMESLRLKDKNEPVQNLPIQKSIDDVDSKLGIGKPRKFSKF
 SLYKQLHRHHLHDADSISSIDSTSNTGSI RSLQTGVGELHGETRFWHGKDYCNFVFKDWVQLDKPFADFI
 DRYSTPRMPWHDIASAVHGKAARDVARHFIQRWNFTKIMKSKYRSLSYFPLLPKSQTTAHELRYQVPGSV
 HANVQLLRSAADWSAGIKYHEESIHAAYVHVIENSRHYIYIENQFFISCADDKVVFNKIGDAIAQRILKA
 HRENQKYRVYVVIPLLPGFEGDISTGGGNALQAIMHFNYRTMCRGENSILGQLKAE LGNQWINYISFCGL
 RTHAELEGNLVTIELIYVHSKLLIADDNTVIIGSANINDRSMLGKRDESEMAVIVQDTETVPSVMDGKEYQA
 GRFARGRLRLQCFRVVLGYLDDPSEDIQDPVSDKFFKEVWVSTAARNATIYDKVFRCLPNDEVHNL IQLRD
 FINKPVLAKEDPIRAEEELKKIRGFLVQFPFYFLSEESLLPSVGTKEAIVPMEVWT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_001130081.3
RefSeq Size:	5911 bp
RefSeq ORF:	3111 bp
Locus ID:	5337
Cytogenetics:	3q26.31
Protein Pathways:	Endocytosis, Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Metabolic pathways, Pancreatic cancer, Pathways in cancer
MW:	119.7 kDa
Gene Summary:	<p>This gene encodes a phosphatidylcholine-specific phospholipase which catalyzes the hydrolysis of phosphatidylcholine in order to yield phosphatidic acid and choline. The enzyme may play a role in signal transduction and subcellular trafficking. Alternative splicing results in multiple transcript variants with both catalytic and regulatory properties. [provided by RefSeq, Sep 2011]</p>