

Product datasheet for **RG209070**

Phospholipase D1 (PLD1) (NM_002662) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase D1 (PLD1) (NM_002662) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phospholipase D1
Synonyms:	CVDD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209070 representing NM_002662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCACTGAAAAACGAGCCACGGGTAATACCTCTGCACTGCAGAAAATTGCTGCTGACATGAGTAATA
TCATAGAAAATCTGGACACGCGGAACTCCACTTTGAGGGAGAGGAGGTAGACTACGACGTGTCTCCAG
CGATCCCAAGATAACAAGAAGTGTATATCCCTTTCTCTGCTATTTATAACACTCAAGGATTTAAGGAGCCT
AATATACAGACGTATCTCTCCGGCTGTCCAATAAAGCACAAGTTCTGGAAGTGGAAACGCTTCACATCTA
CAACAAGGTTACCAAGTATTAATCTTTACTACTATTGAATTAACACATGGGGAATTTAAATGGCAAGTTAA
GAGGAAAATCAAGCATTTTCAAGAATTTACAGAGAGCTGCTCAAGTACAAAGCCTTTATCCGCATCCCC
ATTCCTACTAGAAGACACACGTTTAGGAGGCAAAACGTCAGAGAGGAGCCTCGAGAGATGCCAGTTTGC
CCCCTTCACTGAAAACATGATAAGAGAAGAACAATTCCTTGGTAGAAGAAAACAACCTGGAAGATTACTT
GACAAAGATACTAAAAATGCCCATGTATAGAACTATCATGCCACAACAGAGTTTCTTGATATAAGCCAG
CTGTCTTTTCATCCATGATTTGGGACCAAGGGCATAGAAGGTATGATAATGAAAAGATCTGGAGGACACA
GAATACCAGGCTTGAATTGCTGTGGTCAGGGAAGAGCCTGCTACAGATGGTCAAAAAGATGGTTAATAGT
GAAAGATTCCTTTTTATTGTATATGAAACCAGACAGCGGTGCCATTGCCTTCGTCCTGCTGGTAGACAAA
GAATTCAAAATTAAGGTGGGGAAGAAGGAGACAGAAACGAAATATGGAATCCGAATGATAATCTTTCAA
GGACACTTATTTTAAAAATGCAACAGCTATAGACATGCTCGGTGGTGGGAGGGGCTATAGAAGAATTCAT
CCAGAAACATGGCACCAACTTTCTCAAAGATCATCGATTTGGGTGATATGCTGCTATCCAAGAGAATGCT
TTAGCTAAATGGTATGTTAATGCCAAAGGATATTTTGAAGATGTGGCAAATGCAATGGAAGAGGCAAATG
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TCGTTGGAGGTTGGACTGCATTCTAAACGAAAAGCACAACAAGGAGTGGAGATCTTCATAATGCTCTAC
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ACATAAAGGTGATGAGACACCCGGATCATGTGTCATCCACGCTCTATTTGTGGGCTCACCATGAGAAGCT
TGTCATCATTGACCAATCGGTGGCCTTTGTGGGAGGGATTGACCTGGCCTATGGAAGGTGGGACGACAA



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GAGCACAGACTCACAGACGTGGGCAGTGTGAAGCGGGTCACTTCAGGACCGTCTCTGGGTTCCCTCCCAC
 CTGCCGAATGGAGTCTATGGAATCCTTAAGACTCAAAGATAAAAATGAGCCTGTTCAAAACCTACCCAT
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 GCCTTCCCAATGATGAAGTACACAATTTAATTCAGCTGAGAGACTTATAAACAAGCCGTTACTGATTA
 GGAAGATCCCATTTCGAGCTGAGGAGGAAGTGAAGAAGATCCGTGGATTTTGTGCAATTCCTTTTAT
 TTCTTGTCTGAAGAAAGCCTACTGCCTTCTGTTGGGACCAAGAGGCCATAGTGCCCATGGAGTTTGGAC
 T

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209070 representing NM_002662
 Red=Cloning site Green=Tags(s)

MSLKNEPRVNTSALQKIAADMSNIENLDTRELHFEGEEVDYDVSPSDPKIQEVYIPFSAIYNTQGFKEP
 NIQTYLSGCPIKAQVLEVERFTSTTRVPSINLYTIELTHGEFKWQVQRKFKHFQEFHRELLKYKAFIRIP
 IPTRRHTFRRQNVREPREMPSLPRSENMIREEQFLGRRKQLEDYLTKILKMPMYRNYHATTEFLDISQ
 LSFIDHDLGPKGIEGMIMKRSRGGHRIPGLNCCGQGRACYRWSKRWLIVKDSFLLYMKPDSGAI AFVLLVDK
 EFKIKVGKKEETKYGIRIDNLSRTLILKNSYRHRARWWGGAIEEFIQKHGTNFKDHRFGSYAAIQENA
 LAKWYVNAKGYFEDVANAMEEANEIIFITDWLSPFIKRPVVEGNRWRLDCILKRKAQQGVRIFIMLY
 KEVELALGINSEYTKRMLMRLHPNIKVMRHPDHSSTVYLWAHHEKLVIIDQSVAFVGGIDLAYGRWDDN
 EHRLTDVGSVKRVTSGPSLGSPPAAMESMESLRLKDKNEPVQNLPIQKSIDDVDSKLGIGKPRKFSK
 SLYKQLHRHLLHDADSISSIDSTSSYFNHYRSHHNLHGLKPHFKLFHPSSESEQGLTRPHADTGSIRSL
 QTGVGELHGETRFWHGKDYCNFVKDWQLDKPFADFDIDRYSTPRMPWHDIASAVHGKAARDVARHFIQR
 WNFTKIMKSKYRSLSYPFLLPKSQTTAHELRYQVPGSVHANVQLLRSAADWSAGIKYHEESIHAAYVHVI
 ENSRHYIYIENQFFISCADDKVVFNKIGDAIAQRILKAHRENQYRVYVVIPLLPGFEGDISTGGGNALQ
 AIMHFNYRTMCRGENSILGQLKAEKLNQWYINYSFCGLRTHAELEGNLVTELIYVHSKLLIADDNTVIIG
 SANINDRSMLGKRDESEMAVIVQDTEVPSVMDGKEYQAGRFARGRLQCFRVVLGYLDDPSEDIQDPVSD
 KFFKEVWVSTAARNATIYDKVFRCLPNDEVHNLIQLRDFINKPVLAKEDPIRAEEELKKIRGFLVQFPFY
 FLSEESLLPSVGTKEAIVPMEVWT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002662

ORF Size: 3222 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_002662.5](#)

RefSeq Size: 5494 bp

RefSeq ORF: 3225 bp

Locus ID: 5337

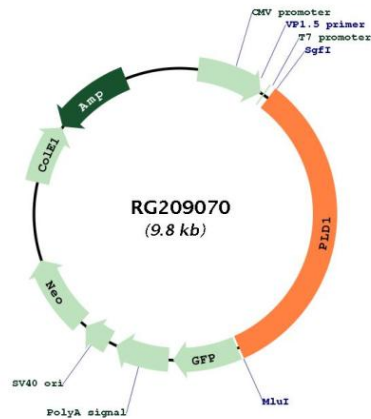
UniProt ID: [Q13393](#)

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

Gene Summary: 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]

Product images:



Circular map for RG209070