

Product datasheet for **RG202042**

Phospholipase D2 (PLD2) (NM_002663) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase D2 (PLD2) (NM_002663) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phospholipase D2
Synonyms:	PLD1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202042 representing NM_002663
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGGCGACCCCTGAGAGCCTTCCCCACTGGGGACGAACCTGGACTCCAGCCAGCTCCAGATGGAGT
 CCGATGAGGTGGACACCCTGAAGGAGGGAGAGGCCAGCCAGCCGACCGGATGCACCCGTTTCTGGCCATCTA
 TGAGCTTCAGTCTCTGAAAGTGACCCCTTGGTGTTCGCACCTGGGGTCCCTGTACAGCCAGGTGGTG
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 CAAAGTCTTGATGAGTCTGCTCCCTCTGGCTCGATTTGCCGTTGCCTATTCTCCAGCCCGAGATGCAGGC
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 TGCCATCCAATGCCACGCGTTCCTGCGGACTCTCCGGGAGTACGTGGCCGTGGAGCCCTTGGCCACGGT
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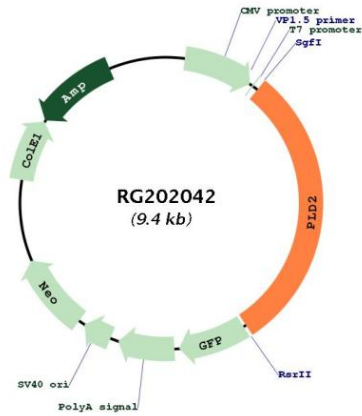
AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

ORF Size:	2799 bp
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:	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:	<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_002663.2 , NP_002654.2
RefSeq Size:	3475 bp
RefSeq ORF:	2802 bp
Locus ID:	5338
UniProt ID:	O14939
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:

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]

Product images:



Circular map for RG202042