

## Product datasheet for **RC206500**

### PLA2G2D (NM\_012400) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G2D (NM_012400) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLA2G2D
Synonyms:	PLA2IID; sPLA2-IID; sPLA2S; SPLASH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206500 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCTGCACTGCTGTGTGGGCTGGTGGTATGGCTGGTGTGATTCCAATCCAGGGCGGGATCCTGA  
ACCTGAACAAGATGGTCAAGCAAGTGACTGGGAAAATGCCCATCTCTCTACTGGCCCTACGGCTGTCA  
CTGCGGACTAGGTGGCAGAGGCCAACCCAAAGATGCCACGGACTGGTGTGCCAGACCCATGACTGCTGC  
TATGACCACCTGAAGACCCAGGGGTGCAGCATCTACAAGGACTATTACAGATACAACTTTTCCCAGGGGA  
ACATCCACTGCTCTGACAAGGGAAGCTGGTGTGAGCAGCAGCTGTGTGCCTGTGACAAGGAGGTGGCCTT  
CTGCCTGAAGCGCAACCTGGACACCTACCAAGAAGCGACTGCGTTTCTACTGGCGGCCACTGCCGGGG  
CAGACCCCTGGGTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC206500 protein sequence Red=Cloning site Green=Tags(s)
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MELALLCGLVVMAGVPIQGGILNLNKMVKQVTGKMPILSYWPYGCHGLGGRGQPKDATDWCCQTHDCC  
YDHLKTQGC SIYKDYRYNFSQGNIHCSDKGSWCEQQLCACDKEVAFCLKRNLDTYQKRLRFYWRPHCRG  
QTPGC

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6015_b01.zip">https://cdn.origene.com/chromatograms/mk6015_b01.zip</a>
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_012400

ORF Size: 435 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\\_012400.4](#)

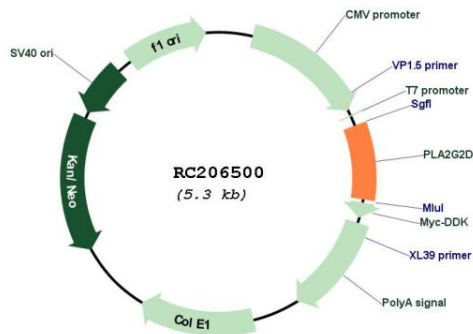
RefSeq Size: 1985 bp

RefSeq ORF: 438 bp

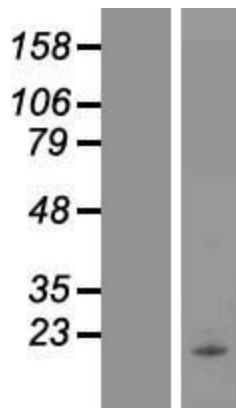
Locus ID: 26279

**UniProt ID:** [Q9UNK4](#)  
**Cytogenetics:** 1p36.12  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**Protein Pathways:** alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway  
**MW:** 16.5 kDa  
**Gene Summary:** This gene encodes a secreted member of the phospholipase A2 family, and is found in a cluster of related family members on chromosome 1. Phospholipase A2 family members hydrolyze the sn-2 fatty acid ester bond of glycerophospholipids to produce lysophospholipids and free fatty acid. This gene may be involved in inflammation and immune response, and in weight loss associated with chronic obstructive pulmonary disease. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2012]

### Product images:



Circular map for RC206500



Western blot validation of overexpression lysate (Cat# [LY415779]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206500 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).