

OriGene Technologies, Inc.

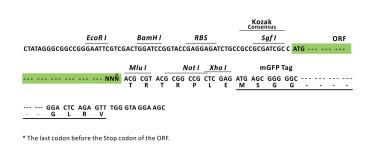
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Product datasheet for RC220972L4

Phospholipase A2 (PLA2G4A) (NM_024420) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase A2 (PLA2G4A) (NM_024420) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Phospholipase A2
Synonyms:	cPLA2; cPLA2-alpha; GURDP; PLA2G4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220972).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNN ACG CGT



ACCN: ORF Size: NM_024420 2247 bp



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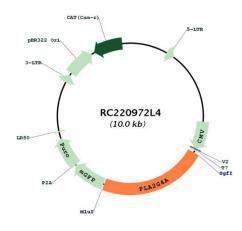
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 024420.1</u>
RefSeq Size:	2875 bp
RefSeq ORF:	2250 bp
Locus ID:	5321
UniProt ID:	<u>P47712</u>
Cytogenetics:	1q31.1
Domains:	C2, PLA2_B
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
MW:	85 kDa

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Scrifene Phospholipase A2 (PLA2G4A) (NM_024420) Human Tagged Lenti ORF Clone – RC220972L4

Gene Summary:This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme
catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is
subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and
leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory
responses, and other intracellular pathways. The hydrolysis reaction also produces
lysophospholipids that are converted into platelet-activating factor. The enzyme is activated
by increased intracellular Ca(2+) levels and phosphorylation, resulting in its translocation
from the cytosol and nucleus to perinuclear membrane vesicles. Alternative splicing results in
multiple transcript variants. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC220972L4

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