

Product datasheet for RC213466

PLA2G2E (NM_014589) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PLA2G2E (NM_014589) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLA2G2E
Synonyms:	GIIE sPLA2; sPLA2-IIE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC213466 representing NM_014589 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC
	ATGAAATCTCCCCACGTGCTGGTGTTCCTTTGCCTCCTGGTGGCTCTGGTCACCGGGAACCTGGTTCAGT TTGGGGTGATGATCGAGAAGATGACAGGCAAGTCCGCCCTGCAGTACAACGACTATGGCTGTTACTGCGG CATCGGTGGCTCCCACTGGCCGGTGGACCAGACTGACTGGTGCTGCCACGCCACGACTGCTGCTACGGG CGTCTGGAGAAGCTGGGCTGTGAGCCCAAACTGGAAAAGTATCTTTTCTCTGTCAGCGAACGTGGCATTT TCTGCGCCGGCAGGACCACCTGCCAGCGGCTGACCTGCGAGTGTGACAAGAGGGCTGCCCTCTGCTTTCG CCGCAACCTGGGCACCTACAACCGCAAATATGCCCATTATCCCAACAAGCTGTGCACCGGGCCCACCCCG CCCTGC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC213466 representing NM_014589 <mark>Red=</mark> Cloning site Green=Tags(s)
	MKSPHVLVFLCLLVALVTGNLVQFGVMIEKMTGKSALQYNDYGCYCGIGGSHWPVDQTDWCCHAHDCCYG RLEKLGCEPKLEKYLFSVSERGIFCAGRTTCQRLTCECDKRAALCFRRNLGTYNRKYAHYPNKLCTGPTP PC
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk8009_a06.zip



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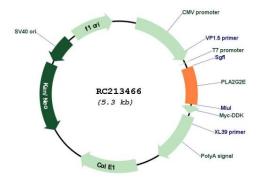
PLA2G2E (NM_014589) Human Tagged ORF Clone – RC213466

Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCGATCGC C ATG// N1281 ACG CGT
	$\begin{tabular}{cccccccccccccccccccccccccccccccccccc$
	EcoR V Flag.Tag Pme i Fse i GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCCC D L A N D I L D Y K D D K V stop
	* The last codon before the Skop codon of the ORF
ACCN:	NM_014589
ORF Size:	426 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. <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 014589.3</u>
efSeq Size:	487 bp
RefSeq ORF:	429 bp
Locus ID:	30814

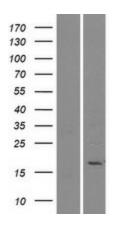
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CRIGENE PLA2G2E (NM_014589) Human Tagged ORF Clone – RC213466		
UniProt ID:	<u>Q9NZK7</u>	
Cytogenetics:	1p36.13	
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane	
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid 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:	15.8 kDa	
Gene Summary:	PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn- phosphoglycerides. Has a preference for arachidonic-containing phospholipids. [UniProtKB/Swiss-Prot Function]	

Product images:



Circular map for RC213466



Western blot validation of overexpression lysate (Cat# [LY415188]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213466 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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