OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR210470

Pla2g6 (NM_016915) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g6 (NM_016915) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g6
Synonyms:	BB112799; iPLA(2)beta; iPLA2; iPLA2beta; PNPLA9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR210470 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGTTCTTCGGACGCCTCGTCAACACCCTCAGTAGCGTCACCAACTTGTTCTCGAACCCATTCCGGG
TGAAGGAGGTGTCCCTGACTGACTACGTCTCAAGTGAACGTGTCCGGGAGGAAGGGCAGCTGATCCTGTT
ACAGAATGTCTCCAATCGCACCTGGGACTGTGTCCTGGTCAGCCCGAGGAACCCACAGAGCGGCTTCCGG
CTCTTCCAACTGGAGTCTGAGGCAGACGCCCTGGTGAACTTCCAGCAGTTCTCCTCCCAGCTGCCGCCCT
TCTACGAGAGCTCTGTGCAGGTCCTGCATGTGGAGGTGCTTCAGCACCTGACCGACCTCATCCGGAACCA
CCCCAGCTGGACAGTGACACACCTAGCCGTGGAGCTTGGCATCCGGGAGTGCTTCCATCACAGCCGCATC
ATCAGCTGTGCCAACAGCACAGAGAATGAGGAGGGCTGCACCCCACTACATCTGGCCTGCCGCAAGGGTG
ACAGTGAGATCCTGGTGGAGCTGGTACAATACTGCCACGCCCAGATGGATGTCACTGACAACAAAGGCGA
GACTGCCTTCCATTACGCTGTGCAAGGGGACAATCCCCAGGTGCTACAGCTCCTAGGGAAGAACGCCTCA
GCCGGCCTGAACCAGGTAAACAACCAAGGGCTGACTCCACTGCACCTGGCCTGCAAGATGGGAAAGCAGG
AGATGGTGCGCGTCCTGCTGCTCTGTAATGCCCGCTGCAACATCATGGGGCCCGGTGGCTTCCCCATCCA
CACAGCCATGAAGTTTTCCCAGAAGGGGTGTGCTGAAATGATTATCAGCATGGACAGCAACCAGATCCAC
AGCAAGGATCCTCGCTACGGAGCCAGCCCACTCCATTGGGCCAAGAACGCCGAGATGGCCCGAATGCTGC
TGAAGCGGGGCTGTGACGTGGACAGCACTAGCTCCTCAGGGAACACAGCCCTGCATGTGGCGGTGATGCG
CAACCGCTTTGACTGTGTCATGGTGCTGCTGACCTACGGGGCTAATGCAGGTGCCCGCGGAGAGCACGGG
AACACGCCACTGCACCTGGCCATGTCGAAAGATAACATGGAGATGGTCAAAGCCCTCATTGTATTTGGGG
CAGAAGTGGACACCCCAAACGACTTTGGGGAGACTCCTGCATTGATAGCCTCCAAGATCAGCAAGCAGCT
TCAGGATCTCATGCCCATCTCTCGAGCCCGGAAGCCAGCGTTCATCCTGAGCTCCATGAGGGACGAGAAG
CGGAGTCACGACCACCTGCTCTGCCTGGACGGAGGGGGCGTGAAAGGCCTGGTCATTATCCAGCTTCTCA
TCGCCATCGAGAAGGCCTCGGGAGTGGCCACCAAGGACCTCTTCGACTGGGTGGCAGGAACCAGCACAGG
GGGCATCCTGGCCCTGGCCATTCTGCACAGTAAATCCATGGCCTATATGCGTGGTGTGTACTTCCGTATG
AAGGACGAGGTGTTTCGGGGCTCACGGCCCTATGAGTCTGGGCCCCTGGAGGAGTTCCTGAAGCGGGAGT
TTGGGGAGCACACCAAGATGACAGATGTCAAAAAACCCAAGGTGATGCTGACAGGGACACTGTCTGACCG
GCAGCCAGCAGAGCTCCACCTATTCCGGAATTACGATGCTCCCGAAGCCGTTCGAGAGCCCCGCTGCAAC
CAAAACATTAACCTGAAGCCACCGACTCAGCCTGCAGACCAACTGGTATGGCGTGCAGCCCGGAGCAGTG
GGGCAGCCCCAACCTATTTCCGGCCCAATGGACGCTTCCTGGATGGAGGGCTGCTGGCCAACAACCCCAC
ACTGGATGCCATGACTGAAATCCATGAGTACAATCAGGACATGATCCGCAAGGGCCAGGGCAACAAGGTG
AAGAAACTCTCCATAGTCGTTTCTCTGGGGACAGGAAAGTCCCCTCAAGTGCCTGTAACCTGTGTAGATG
TCTTTCGTCCCAGCAACCCTTGGGAACTGGCCAAAACTGTTTTTGGAGCCAAGGAACTGGGCAAGATGGT
CGTGGACTGTTGCACAGATCCAGATGGGCGGGCTGTGGATCGGGCCCGGGCCTGGTGCGAGATGGTCGGC
ATCCAGTACTTCAGACTGAACCCCCAGCTAGGGTCCGACATCATGCTGGACGAGGTCAGTGATGCAGTGC
TGGTCAACGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGAGAGGAGTTCCAGAAGCTTGTCCA
GCTGCTGCTGTCTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

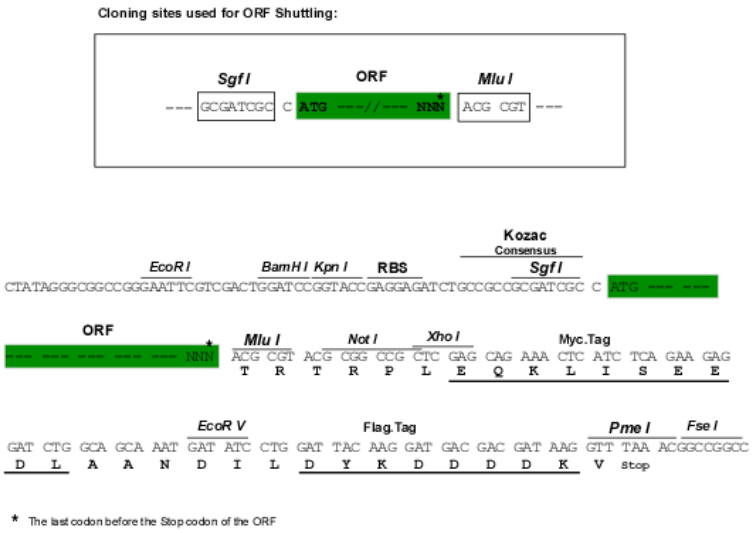
>MR210470 protein sequence
Red=Cloning site Green=Tags(s)

MQFFGRLVNTLSSVTNLFSNPFRVKEVSLTDYVSSERVREEGQLILLQNVSNRTWDCVLVSPRNPQSGFR
LFQLESEADALVNFQQFSSQLPPFYESSVQVLHVEVLQHLTDLIRNHPSWTVTHLAVELGIRECFHHSRI
ISCANSTENEEGCTPLHLACRKGDSEILVELVQYCHAQMDVTDNKGETAFHYAVQGDNPQVLQLLGKNAS
AGLNQVNNQGLTPLHLACKMGKQEMVRVLLLCNARCNIMGPGGFPIHTAMKFSQKGCAEMIISMDSNQIH
SKDPRYGASPLHWAKNAEMARMLLKRGCDVDSTSSSGNTALHVAVMRNRFDCVMVLLTYGANAGARGEHG
NTPLHLAMSKDNMEMVKALIVFGAEVDTPNDFGETPALIASKISKQLQDLMPISRARKPAFILSSMRDEK
RSHDHLLCLDGGGVKGLVIIQLLIAIEKASGVATKDLFDWVAGTSTGGILALAILHSKSMAYMRGVYFRM
KDEVFRGSRPYESGPLEEFLKREFGEHTKMTDVKKPKVMLTGTLSDRQPAELHLFRNYDAPEAVREPRCN
QNINLKPPTQPADQLVWRAARSSGAAPTYFRPNGRFLDGGLLANNPTLDAMTEIHEYNQDMIRKGQGNKV
KKLSIVVSLGTGKSPQVPVTCVDVFRPSNPWELAKTVFGAKELGKMVVDCCTDPDGRAVDRARAWCEMVG
IQYFRLNPQLGSDIMLDEVSDAVLVNALWETEVYIYEHREEFQKLVQLLLSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016915

ORF Size: 2259 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_016915.2

RefSeq Size: 3106 bp

RefSeq ORF: 2259 bp

Locus ID: 53357

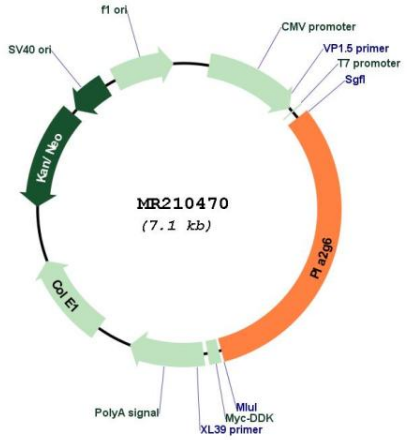
UniProt ID: P97819

Cytogenetics: 15 E1

MW: 83.7 kDa

Gene Summary: Catalyzes the release of fatty acids from phospholipids. It has been implicated in normal phospholipid remodeling, nitric oxide-induced or vasopressin-induced arachidonic acid release and in leukotriene and prostaglandin production. May participate in fas mediated apoptosis and in regulating transmembrane ion flux in glucose-stimulated B-cells. Has a role in cardiolipin (CL) deacylation. Required for both speed and directionality of monocyte MCP1/CCL2-induced chemotaxis through regulation of F-actin polymerization at the pseudopods (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210470