

Product datasheet for **MR231069**

Pla2g6 (NM_001199025) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g6 (NM_001199025) 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)



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ORF Nucleotide Sequence:

>MR231069 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGTTCTTCGGACGCTCGTCAACACCCTCAGTAGCGTCACCAACTTGTTCGAACCCATTCCGGG
 TGAAGGAGGTGTCCCTGACTGACTACGTCTCAAGTGAACGTGTCCGGGAGGAAGGGCAGCTGATCCTGTT
 ACAGAATGTCTCCAATCGCACCTGGGACTGTGTCTGGTCAGCCCGAGGAACCCACAGAGCGGCTTCCGG
 CTCTTCCAACCTGGAGTCTGAGGCAGACGCCCTGGTGAACCTCCAGCAGTTCTCTCCAGCTGCCGCCCT
 TCTACGAGAGCTCTGTGCAGGTCTGCATGTGGAGGTGCTTCAGCACCTGACCGACCTCATCCGGAACCA
 CCCCAGCTGGACAGTGACACACCTAGCCGTGGAGCTCGGCATCCGGGAGTGCTTCCATCACAGCCGCATC
 ATCAGCTGTGCCAACAGCACAGAGAATGAGGAGGGCTGCACCCACTACATCTGGCTGCCGAAGGGTG
 ACAGTGAGATCCTGGTGGAGCTGGTACAATACTGCCACGCCAGATGGATGTCAGTACAACAAAGGAGA
 GACTGCCTTCCATTACGCTGTGCAAGGGGACAATCCCCAGGTGCTACAGCTCCTAGGGAAGAAGCCCTCA
 GCCGGCTGAACCAAGTAAACAACCAAGGGCTGACTCCACTGCACCTGGCTGCAAGATGGGAAAGCAGG
 AGATGGTGCAGCTCTGTCTGTGAATGCCCGCTGCAACATCATGGGGCCCGTGGCTTCCCATCCA
 CACAGCCATGAAGTTTTCCAGAAGGGGTGTGCTGAAATGATTATCAGCATGGACAGCAACCAGATCCAC
 AGCAAGGATCCTCGTACGGAGCCAGCCACTCCATTGGGCAAGAACGCCGAGATGGCCCGAATGCTGC
 TGAAGCGGGGCTGTGACGTGGACAGCACTAGCTCCTCAGGGAACACAGCCCTGCATGTGGCGGTGATGCC
 CAACCGCTTTGACTGTGTATGGTGTGCTGACCTACGGGGCTAATGCAGGTGCCCGGGAGAGCACGGG
 AACACGCCACTGCACCTGGCCATGTGAAAGATAACATGGAGATGGTCAAAGCCCTATTGTATTTGGGG
 CAGAAGTGGACACCCCAAACGACTTTGGGGAGACTCCTGCATTGATAGCCTCCAAGATCAGCAAGCAGT
 TCAGGATCTCATGCCATCTCTCGAGCCCGGAAGCCAGCGTTATCCTGAGCTCCATGAGGGACGAGAAG
 CGGAGTACGACCACCTGCTCTGCTGGACGGAGGGGGCTGAAAGGCCTGGTCATTATCCAGCTTCTCA
 TCGCCATCGAGAAGGCCTCGGGAGTGGCCACCAAGGACCTCTTCGACTGGGTGGCAGGAACCAGCACAGG
 GGGCATCCTGGCCCTGGCCATTCTGCACAGTAAATCCATGGCCTATATGCGTGGTGTGACTTCCGTATG
 AAGGACGAGGTGTTTCGGGGCTCACGGCCCTATGAGTCTGGGCCCTGGAGGAGTTCCTGAAGCGGGAGT
 TTGGGGAGCACACCAAGATGACAGATGTCAAAAAACCAAGGTGATGCTGACAGGGACACTGTCTGACCG
 GCAGCCAGCAGAGCTCCACCTATTCCGGAATTACGATGCTCCCGAAGCCGTTGAGAGCCCCGCTGCAAC
 CAAAACATTAACCTGAAGCCACCGACTCAGCCTGCAGACCAACTGGTATGGCGTGCAGCCCGGAGCAGTG
 GGCAGCCCCAACCTATTTCCGGCCCAATGGACGCTTCTGGATGGAGGGCTGCTGGCCAACAACCCAC
 ACTGGATGCCATGACTGAAATCCATGAGTACAATCAGGACATGATCCGCAAGGGCCAGGGCAACAAGGTG
 AAGAACTCTCCATAGTCGTTTCTCTGGGGACAGGAAAGTCCCCTCAAGTGCCTGTAACCTGTGTAGATG
 TCTTTCTGCCCAGCAACCCTTGGGAACTGGCAAAACTGTTTTTGGAGCCAAGGAACTGGGCAAGATGGT
 CGTGGACTGTTGCACAGATCCAGATGGGCGGGCTGTGGATCGGGCCCGGGCTGGTGCAGATGGTCGGC
 ATCCAGTACTTCAGACTGAACCCACAGTAGGGTCCGACATCATGCTGGACGAGGTGAGTGCAGTGC
 TGGTCAACGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGAGAGGAGTTCAGAAGCTTGTCCA
 GCTGCTGCTGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231069 protein sequence
Red=Cloning site Green=Tags(s)

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MQFFGRLVNTLSSVTNLFNPFVRVKEVSLTDYVSSERVREEQQLILLQNVSNRTWDCVLVSPRNPQSGFR
LFQLESEADALVNFQQFSSQLPPFYESSVQVLHVEVLQHLTDLIRNHPSTVTHLAVELGIRECFHHSRI
ISCANSTENEEGCTPLHLACRKGDSEILVELVQYCHAQMDVTDNKGETAFHYAVQGDNPQVLQLLGKNAS
AGLNQVNNQGLTPLHLACKMGKQEMVRVLLL CNARCNI MGPGGFP IHTAMKF S QKGAEMI I SMDSNQIH
SKDPRY GASP LHWAKNAEMARMLL KRGCDVDSTSSSGNTALHVAVMRNRFDCVMVLLTYGANAGARGEHG
NTPHLAMS KDNMEMVKALIVFGAEV DTPNDFGETPAL IASKISKQLQDLMPISRARKPAFILLSMRDEK
RSHDHLLCLDGGGVKGLV I IQLL I AIEKASGVATKDLFDWVAGTSTGGILALAILHSKSMAYMRGVYFRM
KDEVFRGSRPYESGPLEEF LKREFGEHTKMTDVKPKVMLTGTLSDRQPAELHLFRNYDAPEAVREPRCN
QNINLKPPTQPADQLVWRAARSSGAAPTYFRPNGRFLDGGLLANNPTLDAMTEIHEYNQDMIRKQGQNKV
KKLSIVVSLGTGKSPQVPVTCVDVFRPSNPWELAKTVFGAKELGKMVDCCTDPDGRAVDRARAWCEMVG
IQYFRLNPQLGSDIMLDEVSDAVLVNALWETEVIYEHREEFQKLVQLLLSP
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001199025

ORF Size: 2256 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_001199025.1](#), [NP_001185954.1](#)

RefSeq Size: 3065 bp

RefSeq ORF: 2259 bp

Locus ID: 53357

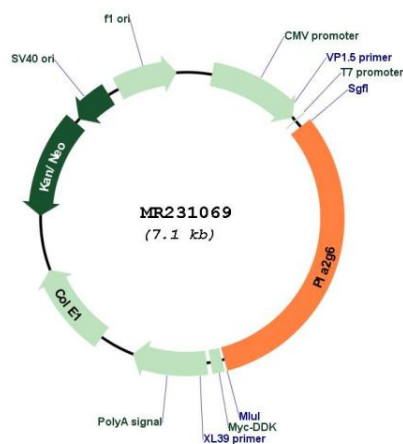
UniProt ID: [P97819](#)

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 MR231069