

Product datasheet for **MR231189**

Pla2g6 (NM_001199023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g6 (NM_001199023) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g6
Synonyms:	BB112799; iPLA(2)beta; iPLA2; iPLA2beta; PNPLA9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR231189 representing NM_001199023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGTTCTTCGGACGCCTCGTCAACACCCTCAGTAGCGTCACCAACTTGTCTCGAACCCATTCCGGG
 TGAAGGAGGTGTCCCTGACTGACTACGTCTCAAGTGAACGTGTCCGGGAGGAAGGCAGCTGATCCTGTT
 ACAGAATGTCTCCAATCGCACCTGGGACTGTGTCTGGTCAGCCCGAGGAACCCACAGAGCGGCTTCCGG
 CTCTTCCAACCTGGAGTCTGAGGCAGACGCCCTGGTGAACCTCCAGCAGTTCTCTCCAGCTGCCGCCCT
 TCTACGAGAGCTCTGTGCAGGTCTGCATGTGGAGGTGCTTCAGCACCTGACCGACCTCATCCGGAACCA
 CCCCAGCTGGACAGTGACACACCTAGCCGTGGAGCTCGGCATCCGGGAGTGCTTCCATCACAGCCGCATC
 ATCAGCTGTGCCAACAGCACAGAGAATGAGGAGGGCTGCACCCACTACATCTGGCTGCCGAAGGGTG
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 GCCGGCTGAACCAAGTAAACAACCAAGGGCTGACTCCACTGCACCTGGCTGCAAGATGGGAAAGCAGG
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 CACAGCCATGAAGTTTTCCAGAAGGGGTGTGCTGAAATGATTATCAGCATGGACAGCAACCAGATCCAC
 AGCAAGGATCCTCGTACGGAGCCAGCCACTCCATTGGGCAAGAACGCCGAGATGGCCGAATGCTGC
 TGAAGCGGGGCTGTGACGTGGACAGCACTAGCTCCTCAGGGAACACAGCCCTGCATGTGGCGGTGATGCC
 CAACCGCTTTGACTGTGTATGGTGTGCTGACCTACGGGGCTAATGCAGGTGCCCGGGAGACACGGG
 AACACGCCACTGCACCTGGCCATGTGAAAGATAACATGGAGATGGTCAAAGCCCTATTGTATTTGGGG
 CAGAAGTGGACACCCCAAACGACTTTGGGGAGACTCCTGCATTGATAGCCTCAAGATCAGCAAGCTGAT
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 GTCTCCACGGAGCAGGGCTCTGCAGCTGCAACTCACCCCTCTTCTCTGGACAGGACTCAGCCCCAG
 CGATCAGCTTAAACAACCTAGAGCTTCAAGATCTCATGCCATCTCTCGAGCCCGAAGCCAGCGTTCAT
 CCTGAGCTCCATGAGGGACGAGAAGCGGAGTACGACCACCTGCTCTGCCTGGACGGAGGGGGCGTGAAA
 GGCCTGGTCATTATCCAGCTTCTCATCGCCATCGAGAAGGCCCTCGGGAGTGGCCACCAAGGACCTTTCC
 ACTGGGTGGCAGGAACCAGCACAGGGGGCATCCTGGCCCTGGCCATTCTGCACAGTAAATCCATGGCCTA
 TATGCGTGGTGTACTTCCGTATGAAGGACGAGGTGTTTCGGGGCTCACGGCCCTATGAGTCTGGGCC
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 GAGGGCTGCTGGCCAACAACCCACACTGGATGCCATGACTGAAATCCATGAGTACAATCAGGACATGAT
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 CAAGTGCCTGTAACTGTGTAGATGTCTTTCGTCAGCAACCTTGGGAACTGGCCAAAAGTGTCTTTG
 GAGCCAAGGAACTGGGCAAGATGGTCTGGACTGTTGCACAGATCCAGATGGGCGGGCTGTGGATCGGGC
 CCGGGCTGGTGGAGATGGTCCGCATCCAGTACTTCAGACTGAACCCCACTAGGGTCCGACATCATG
 CTGGACGAGGTCAGTGATGCAGTGTGGTCAACGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACC
 GAGAGGAGTTCAGAAGCTTGTCCAGCTGCTGCTCTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231189 representing NM_001199023
 Red=Cloning site Green=Tags(s)

MQFFGRLVNTLSSVTNLFNPFVRVKEVSLTDYVSSERVREEQQLILLQVNSNRTWDCVLVSPRNPQSGFR
 LFQLESEADALVNFQQFSSQLPPFYESSVQVLHVEVLQHLTDLIRNHPSWTVTHLAVELGIRECFHHSRI
 ISCANSTENEEGCTPLHLACRKGDSEILVELVQYCHAQMDVTDNKGETAFHYAVQGDNPQVLQLLGNAS
 AGLNQVNNQGLTPLHLACKMGKQEMVRVLLLCNARCNI MGPGGFPIHTAMKF S QKGAEMIISMDSNQIH
 SKDPRYGASPLHWAKNAEMARMLLKRGCDVDSTSSSGNTALHVAVMRNRFDCVMVLLTYGANAGARGEHG
 NTPLHLAMSKDNMEMVKALIVFGAEVDPNDFGETPALIASKISKLITRKALLTLTKTVGADHHPPIIQG
 VSTEQGSAAATHPLFSLDRTQPPAISLNNLELQDLMPISRARKPAFILLSMRDEKRS HDHLLCLDGGGVK
 GLVIIQLLIAIEKASGVATKDLFDWVAGTSTGGILALAILHKSMA YMRGVYFRMKDEVFRGSRPYESGP
 LEEFLKREFGEHTKMTDVKKPKVMLTGTLSDRQPAELHLFRNYDAPEAVREPRCNQINLKPPTQPADQL
 VWRAARSSGAAPTYFRPNGRFLDGLLANNPTLDAMTEIHEYNQDMIRKGGQGNKVKKLSIVVSLGTGKSP
 QVPVTCVDVFRPSNPWELAKTVFGAKELGKMVVDCTDPDGRAVDRARAWCEMVGIQYFRLNPQLGSDIM
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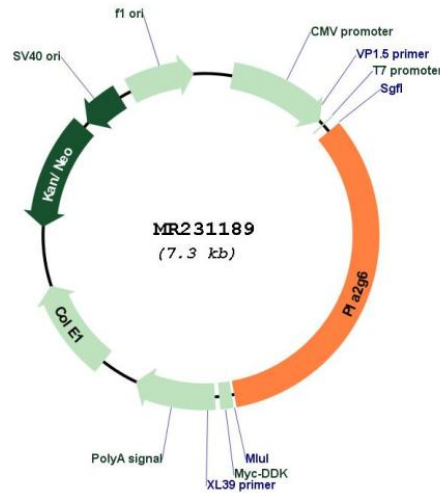
Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199023

ORF Size: 2421 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_001199023.1](#), [NP_001185952.1](#)

RefSeq Size: 3725 bp

RefSeq ORF: 2424 bp

Locus ID: 53357

UniProt ID: [P97819](#)

Cytogenetics: 15 E1

MW: 90 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]