

Product datasheet for MR225356

Pla2g1b (NM_011107) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g1b (NM_011107) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pla2g1b
Synonyms: Pla2a; sPLA2IB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225356 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACTCCTTCTGCTGGCTGCTCTGCTCACAGCAGGCGCTGCTGCACACAGCATCAGCCCTCGGGCTG
 TGTGGCAGTTCGCAATATGATCAAGTGCACCATCCCCGGGAGTGATCCCCTGAAGGATTACAACA
 TGGCTGCTACTGTGGCTTGGGCGCTGGGGCACCCAGTGGACGACTTAGACAGGTGCTGCCAGACTCAT
 GACCACTGCTACAGTCAGGCCAAGAAGCTGAAAGCTGTAATTCCTCATAGACAACCCCTACACCAACA
 CTTACTCTACTCATGCTCCGGGAGCGAGATCACCTGCAGCGCCAAAAACAACAATGCGAGGACTTCAT
 CTGCAACTGTGACCGTGAGGCCCATCTGCTTCTCCAAGGTCCCGTACAACAAGGAATACAAAAACCTT
 GACACCGGAAATTCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225356 protein sequence
 Red=Cloning site Green=Tags(s)

MKLLLLAALLTAGAAHSISPRAVWQFRNMIKCTIPGSDPLKDYNNYGCYGLGGWGPVDDLDRCCQTH
 DHCYSQAKKLESCKFLIDNPYNTNTYSYSCSGSEITCSAKNNKCEDFICNCDREAAICFSKVPYNKEYKNL
 DTGKFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_011107

ORF Size: 438 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011107.2](#)

RefSeq Size: 552 bp

RefSeq ORF: 441 bp

Locus ID: 18778

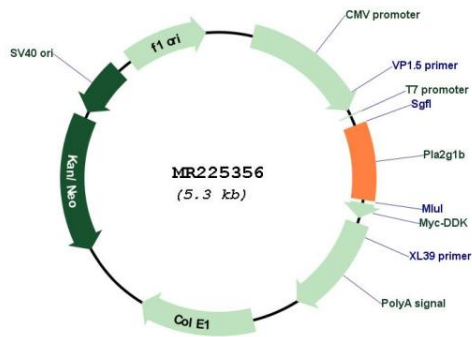
UniProt ID: Q9Z0Y2

Cytogenetics: 5 F

MW: 16.3 kDa

Gene Summary: PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides, this releases glycerophospholipids and arachidonic acid that serve as the precursors of signal molecules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225356