

Product datasheet for **MC206866**

Pla2g10 (BC028879) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g10 (BC028879) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pla2g10
Synonyms:	PLA2GX, mGXsPLA2, sPLA2-X
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206866 representing BC028879. Blue=ORF Red=Cloning site Green=Tag(s)

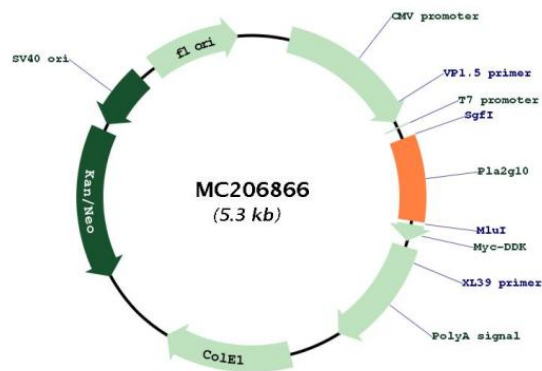
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCTGCTACTGCTGCTGTTGCTGCTGGGACCTGGACCCGGATTAGCGAAGCAACCAGGAGGTCA
CATGTATACAAGCGTGGACTCCTGGAGCTGGCAGGGACCTTGGATTGTGTTGGGCCTCGATCTCCGATG
GCTTACATGAACATGGCTGTTATTGTGGCCTTGGTGGCCATGGAGAGCCACGTGACGCCATTGACTGG
TGCTGCTACCACCAGACTGCTGCTACTCTCGGGCTCAGGACGCTGGCTGCAGCCCTAAGTTAGACCGC
TACCCATGGAAGTGCATGGACCATCACATCCTGTGTGGTGAAGTGCCTATGCCGTGTGACTTCCCAAG
TGCCCACTGGACATCCTGCAGATCCAATGGCTCCTGTACCCTTGTGGACCAGCAGAGAACAATGCCA
AGAACTTTTGTGCAGGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: BC028879

Insert Size: 435 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC028879](#)

RefSeq Size: 1011 bp

RefSeq ORF: 434 bp

Locus ID: 26565

Cytogenetics: 16 9.5 cM

MW: 16.2 kDa

Gene Summary: This gene encodes a member of the phospholipase A2 family of lipolytic enzymes that hydrolyzes glycerophospholipids to produce free fatty acids and lysophospholipids. The encoded protein undergoes proteolytic processing to generate a calcium-dependent enzyme that plays pivotal roles in the liberation of arachidonic acid from membrane phospholipids leading to the production of various inflammatory lipid mediators, such as prostaglandins. In response to myocardial ischemia/reperfusion, mice lacking the encoded protein display a reduction in myocardial infarct size partly through the suppression of neutrophil cytotoxic activities. Alternative splicing results in multiple transcript variants encoding different isoforms. All of these isoforms may undergo similar processing to generate the mature protein. [provided by RefSeq, Jul 2015]