

Product datasheet for **MC225896**

Pla2g10 (NM_001291009) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g10 (NM_001291009) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pla2g10
Synonyms: GX sPLA2; mGXs; PLA; PLA2GX; sPLA2-X
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225896 representing NM_001291009
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGCTGCTACTGCTGCTGTTGCTGCTGGGACCTGGACCCGGATT**CAGCGAAGCAACCAGGAGGTCAC**
ATGTATAACAAGCGTGGACTCCTGGAGCTGGCAGGGACCTGGATTGTTGGCCCTCGATCTCCGATGGC
TTACATGAACTATGGCTGTTATTGTGGCCTTGGTGGCCATGGAGAGCCACGTGACGCCATTGACTGGTGC
TGCTACCACCACGACTGCTGCTACTCTCGGGCTCAGGACGCTGGCTGCAGCCCTAAGTTAGACCGCTACC
CATGGAAGTGCATGGACCATCACATCCTGTGTGGTGTGAGTGCCCTATGCCGTGTGACTTCCCCAAGTGCC
ACTGGACATCCTGCAGATCCCAATGGCTCCTGTACCCTTGTGGACCAGCAGAGAACAATGCCAAGAAGT
TTTGTGCAGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001291009
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).



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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001291009.2</u> , <u>NP_001277938.1</u>
RefSeq Size:	1005 bp
RefSeq ORF:	435 bp
Locus ID:	26565
Cytogenetics:	16 9.5 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus, compared to isoform 1.</p>