

Product datasheet for MR226157

Pla2g10 (NM_011987) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Pla2g10 (NM_011987) Mouse Tagged ORF Clone

Tag:Myc-DDKSymbol:Pla2g10

Synonyms: GX sPLA2; mGXs; PLA; PLA2GX; sPLA2-X

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR226157 representing NM_011987

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTGCTGCTGCTGCTGTTGCTGCTGGGACCTGGACCCGGATTCAGCGAAGCAACCAGGAGGTCAC
ATGTATACAAGCGTGGACTCCTGGAGCTGGCAGGGACCTTGGATTGTTTGGGCCTCGATCTCCGATGGC
TTACATGAACTATGGCTGTTATTGTGGCCTTGGTGGCCATGGAGAGCCACGTGACGCCATTGACTGGTGC
TGCTACCACCACGACTGCTGCTACTCTCGGGCTCAGGACGCTGCAGCCCTAAGTTAGACCGCTACC
CATGGAAGTGCATGGACCATCACATCCTGTGTGGACCAGCAGAAACAAATGCCAAGAACTTTTGTGCAG
GTGTGACGAGGAGCTGGCTTACTGCCTGGCAGGGACCGAGTACCACCTGAAATACCTCTTCTTCCCCTCC
ATTTTATGTGAGAAGGACTCTCCCAAGTGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226157 representing NM_011987

Red=Cloning site Green=Tags(s)

MLLLLLLLLGPGPGFSEATRRSHVYKRGLLELAGTLDCVGPRSPMAYMNYGCYCGLGGHGEPRDAIDWC CYHHDCCYSRAQDAGCSPKLDRYPWKCMDHHILCGPAENKCQELLCRCDEELAYCLAGTEYHLKYLFFPS

ILCEKDSPKCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2231 h03.zip



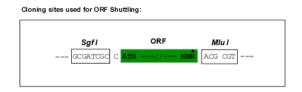
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

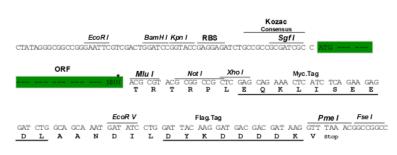
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com ORÏGENE

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_011987

ORF Size: 453 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customer.com or by

calling 301.340.3188 option 3 for pricing and delivery.

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: <u>NM 011987.4</u>, <u>NP 036117.1</u>

 RefSeq Size:
 1022 bp

 RefSeq ORF:
 456 bp

 Locus ID:
 26565

 UniProt ID:
 Q9QXX3

 Cytogenetics:
 16 9.5 cM

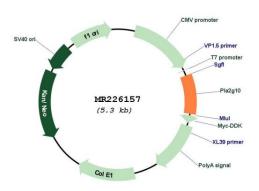
 MW:
 17.5 kDa

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 neutorphil 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]

Product images:



Circular map for MR226157