

# **Product datasheet for MR200952**

## Pla2g10 (BC028879) Mouse Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Pla2g10 (BC028879) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Pla2g10

**Synonyms:** PLA2GX, mGXsPLA2, sPLA2-X

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR200952 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTGCTGCTGCTGCTGCTGCTGCTGGGACCTGGACCCGGATTCAGCGAAGCAACCAGGAGGTCAC ATGTATACAAGCGTGGACTCCTGGAGCTGGCAGGGACCTTGGATTGTTTTTTGGGCCTTCGATGGC TTACATGAACTATGGCTGTTATTTGTGGCCTTGGTGGCCATGGAGGCCACGTGACGCCATTGACTGGTGC TGCTACCACCACCACGACTGCTACTCTCGGGCTCAGGACGCTGCTGCAGCCCTAAGTTAGACCGCTACC CATGGAAGTGCATGACCATCACATCCTGTGTGGTGAGTGCCCTATGCCGTGTGACTTCCCCAAGTGCCC ACTGGACATCCTGCAGATCCCAATGGCTCTGTACCCTTGTGGACCAGCAGAAACAAATGCCAAGAACT

TTTGTGCAGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200952 protein sequence

Red=Cloning site Green=Tags(s)

MLLLLLLLLGPGPGFSEATRRSHVYKRGLLELAGTLDCVGPRSPMAYMNYGCYCGLGGHGEPRDAIDWC CYHHDCCYSRAQDAGCSPKLDRYPWKCMDHHILCGECPMPCDFPKCPLDILQIPMAPVPLWTSREQMPRT

FVQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul



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

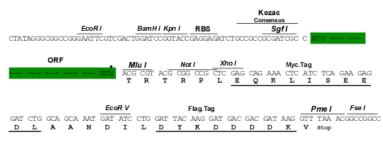
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#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** BC028879 **ORF Size:** 432 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:** <u>BC028879</u>, <u>AAH28879</u>

RefSeq Size: 1011 bp
RefSeq ORF: 434 bp
Locus ID: 26565
Cytogenetics: 16 9.5 cM



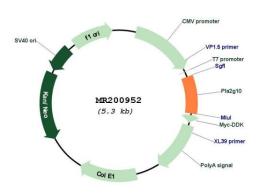
MW:

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 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 MR200952