

Product datasheet for **MG200952**

Pla2g10 (BC028879) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g10 (BC028879) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pla2g10
Synonyms: PLA2GX, mGXsPLA2, sPLA2-X
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200952 representing BC028879
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGCTACTGCTGCTGTTGCTGCTGGGACCTGGACCCGGATTAGCGAAGCAACCAGGAGGTAC
ATGTATACAAGCGTGGACTCCTGGAGCTGGCAGGGACCTTGGATTGTGTTGGCCCTCGATCTCCGATGGC
TTACATGAACATGGCTGTTATTGTGGCCTTGGTGGCCATGGAGAGCCACGTGACGCCATTGACTGGTGC
TGCTACCACCACGACTGCTGCTACTCTCGGGCTCAGGACGCTGGCTGCAGCCCTAAGTTAGACCGCTACC
CATGGAAGTGCATGGACCATCACATCCTGTGTGGTGTGAGTCCCTATGCCGTGTGACTTCCCAAGTGCCC
ACTGGACATCCTGCAGATCCCAATGGCTCCTGTACCCTTGTGGACCAGCAGAGAACAATGCCAAGAAGT
TTGTGTCAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200952 representing BC028879
Red=Cloning site Green=Tags(s)

MLLLLLLLLLLPGPGFSEATRRSHVYKRGLLELAGTLDCVGRSPMAYMNYGCYGLGGHGEPRDAIDWC
CYHHDCCYSRAQDAGCSPKLD RYPWKMDHHILCGECPMPCDFPKCPLDILQIPMAPVPLWTSREQMPRT
FVQV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

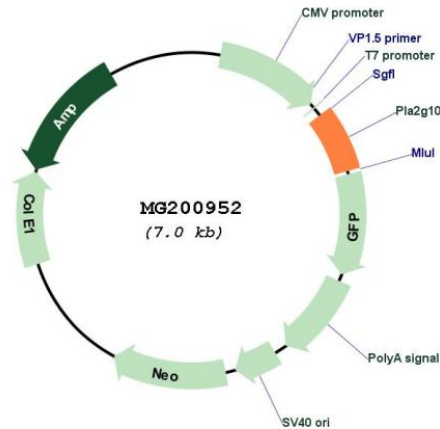


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Cloning Scheme:



Plasmid Map:



ACCN: BC028879

ORF Size: 434 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:	<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>BC028879</u> , <u>AAH28879</u>
RefSeq Size:	1011 bp
RefSeq ORF:	434 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>