

Product datasheet for **MR200976**

Pla2g2a (NM_001082531) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g2a (NM_001082531) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pla2g2a
Synonyms: EF; Mom1; Pla2; sPLA2; sPla2-IIA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200976 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAGGTCTCCTGCTGCTAGCAGCCTCGATCATGGCCTTTGGCTCAATACAGGTCCAAGGAACATTG
CGCAGTTTGGGAAATGATTCGGCTTAAGACAGGAAAGAGAGCTGAGCTTAGCTATGCCTTCTATGGATG
CCACTGTGGCCTGGGTGGCAAAGGATCCCCAAGGATGCCACAGACCGGTGCTGTGTTACTCATGACTGT
TGCTACAAGACCTGGAGAAAAGTGGATGTGGTACTAAGTTACTGAAATACAAGTACTCCCACCAAGGGG
GCCAAATCACCTGTTCTGCAAACCAGAACTCCTGTCAGAAACGGCTGTGTCAGTGCATAAAGCCCGCCG
TGAATGTTTCGCCGGAACAAGAAAACCTACAGTTTAAAGTACCAGTTCTACCCCAACATGTTTTGCAA
GGGAAGAAGCCAAATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200976 protein sequence
Red=Cloning site Green=Tags(s)
MKVLLLLAASIMAFGSIQVQGNIAQFGEMIRLKTGKRAELSYAFYGCHCGLGGKSPKDATDRCCVTHDC
CYKSLEKSGCGTKLLKYYSHQGGQITCSANQNSCQKRLCQCDKAAAECFARNKKTYSLKYQFYPNMFCK
GKKPKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001082531

ORF Size: 441 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: [NM_001082531.1](#), [NP_001076000.1](#)

RefSeq Size: 793 bp

RefSeq ORF: 441 bp

Locus ID: 18780

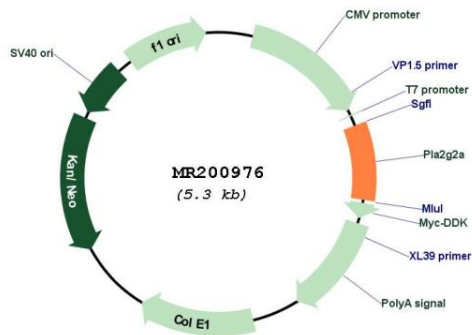
UniProt ID: [P31482](#)

Cytogenetics: 4 70.57 cM

MW: 16.1 kDa

Gene Summary: Proteins belonging to the phospholipase A2 (PLA2) family hydrolyze phospholipids into sn2 fatty acids and lysophospholipids. They function in a variety of cellular processes, including the digestion of phospholipids and the production of molecules that induce inflammatory responses. This gene encodes a member of the group II class of secretory PLA2s. The secreted enzyme binds to heparin on the cell surface. Mutations in this gene increase the occurrence of intestinal polyps caused by a dominant mutation in the adenomatosis polyposis coli gene. A frameshift inactivates this gene product in some mouse strains including the strain of the reference genome, C57BL/6J, whereas a functional protein is produced in other strains. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR200976