

Product datasheet for **MG200976**

Pla2g2a (BC045156) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g2a (BC045156) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pla2g2a
Synonyms: EF, Pla2, sPLA2, 14-3-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200976 representing BC045156
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGTCTCCTGCTGCTAGCAGCCTCGATCATGGCCTTTGGCTCAATACAGGTCCAAGGAACATTG
 CGCAGTTTGGGAAATGATTCGGCTTAAGACAGGAAAGAGAGCTGAGCTTAGCTATGCCTTCTATGGATG
 CCACTGTGGCTGGTGGCAAAGGATCCCCAAGGATGCCACAGACCGGTGCTGTGTTACTCATGACTGT
 TGCTACAAGAGCCTGGAGAAAAGTGGATGTGGTACTAAGTTACTGAAATACAAGTACTCCCACCAAGGGG
 GCCAAATCACCTGTTCTGCAAACCAGAACTCCTGTGAGAAACGGCTGTGTCAGTGCATAAAGCCCGCGC
 TGAATGTTTCGCCGGAACAAGAAAACCTACAGTTTAAAGTACCAGTTCTACCCCAACATGTTTTGCAA
 GGAAGAAGCCAAATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200976 representing BC045156
 Red=Cloning site Green=Tags(s)

MKVLALLAASIMAFGSIQVQGNIAQFGEMIRLKTGKRAELSYAFYGCHCGLGGKGS PKDATDRCCVTHDC
 CYKSLEKSGCGTKLLKYKSHQGGQITCSANQNSCQKRLCQCDKAAAECFARNKKTYSLKYQFYFNP MFCK
 GKKPKC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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>BC045156, AAH45156</u>
RefSeq Size:	793 bp
RefSeq ORF:	440 bp
Locus ID:	18780
Cytogenetics:	4 70.57 cM
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]