

Product datasheet for MG200976

Pla2g2a (BC045156) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

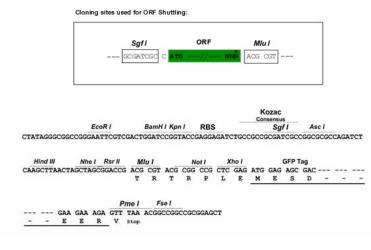
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Product Type:	Expression Plasmids
Product Name:	Pla2g2a (BC045156) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pla2g2a
Synonyms:	EF, Pla2, sPLA2, 14-3-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>MG200976 representing BC045156 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAAGGTCCTCCTGCTGCTAGCAGCCTCGATCATGGCCTTTGGCTCAATACAGGTCCAAGGGAACATTG CGCAGTTTGGGGAAATGATTCGGCTTAAGACAGGAAAGAGAGAG
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>MG200976 representing BC045156 Red=Cloning site Green=Tags(s)
	MKVLLLLAASIMAFGSIQVQGNIAQFGEMIRLKTGKRAELSYAFYGCHCGLGGKGSPKDATDRCCVTHDC CYKSLEKSGCGTKLLKYKYSHQGGQITCSANQNSCQKRLCQCDKAAAECFARNKKTYSLKYQFYPNMFCK GKKPKC
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul

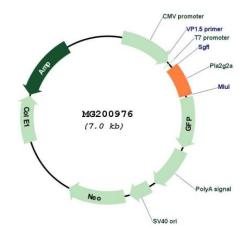


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Cloning Scheme:



Plasmid Map:



ACCN:	BC045156
ORF Size:	440 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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Pla2g2a (BC045156) Mouse Tagged ORF Clone – MG200976	
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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</u> , <u>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]

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