

Product datasheet for **SC300153**

PLA2G1B (NM_000928) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G1B (NM_000928) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G1B
Synonyms:	PLA2; PLA2A; PPLA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000928 edited ATGAAACTCCTTGTGCTAGCTGTGCTGCACAGTGGCCGCCGACAGCGGCATCAGC CCTCGGGCCGTGTGGCAGTTCGCAAAATGATCAAGTGCCTGATCCCGGGGAGTGACCC TTCTTGAATACAACAACACTACGGCTGCTACTGTGGCTTGGGGGCTCAGGCACCCCGTG GATGAACTGGACAAGTGCTGCCAGACACATGACAAGTGTATGACCAGGCCAAGAAGCTG GACAGCTGTAATTTCTGCTGGACAACCCGTACACCCACACCTATTACTACTCGTCTCT GGCTCGGCAATCACCTGTAGCAGCAAAAACAAGAGTGTGAGGCCTTCATTTGCAACTGC GACCGCAACGCTGCCATCTGCTTTTCAAAGCTCCATATAACAAGGCACACAAGAACCTG GACACCAAGAAGTATTGCAGAGTTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000928 unedited NNNNGTTTTCGGGTTCATCATTGTNATACNACTCACTATAGGCGGCCGCGATTTCATTC TGGTACCGAGCTCGGNATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTCAC CTGGTCTCTCAGTTCTTTTCTCACCTTGACTGCAAGATGAAACTCCTTGTGCTAGCTGT GCTGCTCACAGTGGCCGCCGCCGACAGCGGCATCAGCCCTCGGGCCGTGTGGCAGTTCGG CAAAATGATCAAGTGCCTGATCCCGNGAGTGACCCCTTCTTGAATACAACAACACTACGG CTGCTACTGTGGCTTGGGGGCTCAGGCACCCNCGTGGATGAACTGGACAAGTGTGCCA GACACATNGACTGCTATGACCAGGCCAAGAAGCTGGACAGCTGTAATTTCTGCTGGA CAACCCGTACACCCACACCTATTACTACTGCTGCTGCTGGCTCGGCAATCACCTGTAGCAG CAAAAACAAGAGTGTGAGGCCTTCATTTGCAACTGCGACCGCAACGCTGCCATCTGCTT TTCAAAAGCTCCATATAACAAGGCACACATGAACCCTGGACACCAGAAGTATTGTCAGAG TTGATATCACCTCTAAAAAGCATCACTCTATCTGCCTCATCTCACACTGTACTCTCAA TAAGCACCTGTTTGAAGACCTCATTGATGAAGGCCAATTCTGCAGAATTCCTCACAC TGGCGGGCGGTGAGCATGCATTTAGATTGCGGCCCGGTCATAGCTGTTTCTGAAACAG ATCCCGGGTGGCATCCCTGTGACCCTTCCCCATGGCTTTTCTGGCCCTGTGGGTGGCC ACTCCAGGGCCAACCACCCTGTCCCAATAAAATTAATTTGCTCATT
Restriction Sites:	Please inquire



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ACCN:	NM_000928
Insert Size:	700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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>NM_000928.2</u> , <u>NP_000919.1</u>
RefSeq Size:	585 bp
RefSeq ORF:	447 bp
Locus ID:	5319
UniProt ID:	<u>P04054</u>
Cytogenetics:	12q24.31
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
Gene Summary:	This gene encodes a secreted member of the phospholipase A2 (PLA2) class of enzymes, which is produced by the pancreatic acinar cells. The encoded calcium-dependent enzyme catalyzes the hydrolysis of the sn-2 position of membrane glycerophospholipids to release arachidonic acid (AA) and lysophospholipids. AA is subsequently converted by downstream metabolic enzymes to several bioactive lipophilic compounds (eicosanoids), including prostaglandins (PGs) and leukotrienes (LTs). The enzyme may be involved in several physiological processes including cell contraction, cell proliferation and pathological response. [provided by RefSeq, Aug 2013]