

Product datasheet for **SC122227**

PLA2G1B (BC005386) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PLA2G1B (BC005386) Human Untagged Clone
Tag: Tag Free
Symbol: PLA2G1B
Synonyms: MGC119834; MGC119835; phospholipase A2, group IB; phospholipase A2, group IB (pancreas); PLA2; PLA2A; PPLA2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC005386 edited
 AGTTCTTTTCTCACCTTGACTGCAAGATGAAACTCCTTGTGCTAGCTGTGCTGCTCACAG
 TGGCCCGCCGACAGCGGCATCAGCCCTCGGGCCGTGTGGCAGTTCCGCAAAATGATCA
 AGTGCGTGATCCCGGGGAGTGACCCCTTCTTGAATACAACAACACTACGGCTGCTACTGTG
 GCTTGGGGGGCTCAGGCACCCCGTGGATGAACTGGACAAGCAAAAACAAGAGTGTGAG
 GCCTTCATTTGCAACTGCGACCGCAACGCTGCCATCTGCTTTTCAAAGCTCCATATAAC
 AAGGCACACAAGAACCTGGACACCAAGAAGTATTGTCAGAGTTGAATATCACCTCTCAA
 AGCATCACCTCTATCTGCCTCATCTCACACTGTACTCTCCAATAAAGCACCTTGTGAAA
 GACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC005386 unedited
 NNGGTTTGAGTCAAATTTGTATACGACTCATATAGGCGGCACGGAATCGGCCATTACGG
 CCGGGGAGTTCTTTTCTCACCTTGACTGCAAAATGAAACTCCTTGTGCTAGCTGTGCTGC
 TCACAGTGGCCGCGCCGACAGCGGCATCAGCCCTCGGGCCGTGTGGCAGTTCCGCAAAA
 TGATCAAGTGCCTGATCCCGGGGAGTGACCCCTTCTTGAATACAACAACACTACGGCTGCT
 ACTGTGGCTTGGGGGGCTCATGCACCCCGTGGATGAACTGGACAAGCAAAAACAAGAG
 TGTGAGGCCTTCATTTGCAACTGCGACCGCAACGCTGCCATCTGCTTTTCAAAGCTCCA
 TATAACAAGGCACACAAGAACCTGGACACCAAGAAGTATTGTCAGAGTTGAATATCACCT
 CTCAAAGCATCACCTCTATCTGCCTCATCTCACACTGTACTCTCCAATAAAGCACCTTG
 TTGAAAGACAAANNANAAAAAAAAAAAAAAAAAAAAAAAAACATGTGGCCGCTCGGCCCT
 CGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAAACAGATCCCGGTGGCATCCC
 TGTGACCCCTCCCAGTGCTCTCTGCGCCCTGGAAGTTGCCACTCCAGTGCCACCACAGC
 CTTGTCCTAATAAAATTAAGTTGCATATTTGTCTGACTAGGTGCTCTATATATTA
 TGGGGTGGAGGGGNTGGGTATTGGAGCAAGGGGCAAGTTGGGAAAGACACCTGTAGGGC
 CTGCGGGTCTATTGGGAACAGCTGGATGCAGTGCNCAATCTTGGCTACTGCAATCTCG
 CCTCTGGGTTGAGCGATT



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| Restriction Sites: | Please inquire |
| ACCN: | BC005386 |
| Insert Size: | 453 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). |
| 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: | BC005386.1 , AAH05386.1 |
| RefSeq Size: | 453 bp |
| Locus ID: | 5319 |
| 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] |