

Product datasheet for **SC117817**

PLA2G4C (NM_003706) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G4C (NM_003706) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G4C
Synonyms:	CPLA2-gamma
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117817 sequence for NM_003706 edited (data generated by NextGen Sequencing)

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ATGGGAAGCTCTGAAGTTTCATAATTCCTGGGCTCCAGAAAGAAGAAAAGGCGGCCGTG
GAGAGACGAAGACTTCATGTGCTGAAAGCTCTGAAGAAGCTAAGGATTGAGGCTGATGAG
GCCCCAGTTGTTGCTGTGCTGGGCTCAGGCGGAGGACTGCGGGCTCACATTGCCTGCCTT
GGGGCTCTGAGTGAGATGAAAGAACAGGGCCTGTTGGATGCCGTACGTACCTCGCAGGG
GTCTCTGGATCCACTTGGGCAATATCTTCTCTACACCAATGATGGTGACATGGAAGCTA
CTCGAGGCTGACCTGAAACATCGATTTACCCGACAGGAGTGGGACTTGGCTAAGAGCCTA
CAGAAAACCATCCAAGCAGCGAGGTCTGAGAATTACTCTCTGACCGACTTCTGGGCTAC
ATGTTTATCTCTAAGCAAACCAGAGAACTGCCGGAGTCTCATTTGTCCAATATGAAGAAG
CCCGTGGAAAGAAGGGACTACCCTACCCGATATTTGCAGCCATTGACAATGACCTGCAA
CCTTCTGGCAGGAGCAAGAGCACCAGAGACCTGGTTCGAGTTCACCCCTACCACGCT
GGCTTCTCTGCACTGGGGCCTTTGTTTCCATAACCCACTTCGGAAGCAAATCAAGAAG
GGAAGACTGGTCAGAACTCACCTGAGAGAGACCTGACTTTCCTGAGAGGTTTATGGGGA
AGTGCTCTTGGTAACACTGAAGTCAATTAGGGAATACATTTTTGACCAGTTAAGGAATCTG
ACCTGAAAGGTTTATGGAGAAGGGCTGTTGCTAATGCTAAAAGCATTGGACACCTTATT
TTTGCCCGATTACTGAGGCTGCAAGAAAGTTCACAAGGGGAACATCTCCCCAGAAAGAT
GAAGGCGGTGAGCCTGAACACACCTGGCTGACTGAGATGCTCGAGAATTGGACCAGGACC
TCCCTGGAAAAGCAGGAGCAGCCCCATGAGGACCCCGAAAGGAAAGGCTCACTCAGTAAC
TTGATGGATTTTGTGAAGAAAACAGGCATTTGCGCTTCAAAGTGGGAATGGGGGACCMCT
CACAACCTCCTGTACAAACACGGTGGCATCCGGGACAAGATAATGAGCAGCCGGAAGCAC
CTCCACCTGGTGGATGCTGGTTTAGCCATCAACACTCCCTTCCCACTCGTGTGCCCCCG
ACGCGGGAGGTTACCTCATCTCCTTCGACTTCAGTGCCGGAGATCCTTTTCGAGAC
ATCCGGGCTACCACTGACTACTGCCGCCACAAGATCCCTTTCCCAAGTAGAAGAG
GCTGAGCTGGATTTGTGTTCCAAGGCCCCGCCAGCTGCTACATCCTGAAAGGAGAACT
GGACCAGTGGTATGCATTTTCCCTGTTCAACATAGATGCCTGTGGAGGTGATATTGAG
GCATGGAGTGACACATACGACACATTCAAGCTTGTGACACCTACACTCTAGATGTGGTG
GTGCTACTCTTGGCATTAGCCAAGAAGAATGTCAGGGAAAACAAGAAGAAGATCCTTAGA
GAGTTGATGAACGTGGCCGGCTCTACTACCCGAAGGATAGTGCCCGAAGTTGCTGCTTG
GCATAG
    
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Clone variation with respect to NM_003706.2
 510 a=>g;1078 a=>m

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003706 unedited
TTTGTAATACGACTCACTATAGGGCGCCGCAATTCGGCAGCAGCCTCGTGCCGAATTC
GGCAGCAGGCAACCAAGCAGGGCCTACAAGCCGAGGAGGCTGTTTAAAGGCGCAGGGGC
CATTTTACCTCCAGGTTGGCCCTGCTCAGGACCAGGAGGAAACACTCCAGCCCGCGACC
TCTCCACAGGGGAAAAGGAAAGCAGGAGGACCACAGAAGCTTTGGCACCAGGATCC
CCGCACTTTCACCCGCGGAGATTCCGGCTGAAGGAGCTGTCCAGCGACTACCCGCTAA
GCGCAGGGAGCCCAAGCCTCCGCACCGGATTCCGGAGCCCAAGCCTCCGCACCGGATTCC
GGAGCCCAAGCCTCCGCACCGGATTCCGGAGCACAAGCTCCACCCGCGCATGCGCACACGC
CCCAGACCCAGGCTCAGGAGGACTGAGAATTTTCTGACCCGAGTGCACCATGGGAAGCTC
TGAAGTTTCCATAATTCCTGGGCTCCAGAAAGAAGAAAAGGCGGCCGTGGAGAGACGAAG
ACTTCATGTGCTGAAAGCTCTGAAGAAGCTAAGGATTGAGGCTGATGAGGCCCCAGTTGT
TGCTGTGCTGGGCTCAGGCGGAGGACTGCGGGCTCACATTGCCTGCCTTGGNGTCTGA
GTGAGATGAAAGAACAGGGCCTGTTGGATGCCGTACGTACCTCGCAGGGGTCTCTGGNA
TCCACTTNGGGCATATCTTTCTTCTACCCAATTGAGGNTGACATGGNAAGCTCTCGAG
GGCTGACCCTGAACATCGGATTTACCCGACAGGAGTTGGGACTTGGCTNANGAGCCCTAC
AGAAACCATNCCAGCAGCGAGTCTGAGAATACTCTTGTGACGACTNCTGGCCTACATGGG
TATCA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003706 unedited ATGACCGCGCCGAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTCATCGTCAATCAGC AAGCATTTATTGAGCACTTGTGTATTCTCAGAGCTCCACTTGGCTGTGGAGAGATAGCC CATGATTTAAGCCCAAGTTCTTACTTCTACAGAGCTAACTTGTGCAGAGCTACTGGCTAG AAGTGCAGTCATAAAGGAGCAGTGAAGGCATTGGTCTGAACTATCACATTCATTCTGGC CATCTGGACATTGGACATGATGCTTCTGATTGTCAGACACTCATGCTCCAGCTCCAGGAT CTCCCAGGGACCTGCAGGACAAATTTACCACCTTCAGCTCCTTGGACGCCTTCTTCTG AATGACGCTATCAAAATCACAGCCTACCTGGTCACTGGTATTGGCCCTGTTAGGACAGC CAAGGTGAACTCAAGGCCATGAAGCGTGTGGCTGAAGGGAGTGAACAACGGAAGGCCAG GTGGACTTCAGGGCCCTAGTAGACCAACAGGCCCCCCAGTGCCCTGGAAGCTGAGGCTCA TCTTTGCCAAGCAGCAACTTAGGGCACTATCCTTCGGGTAGTAAAGCCCGGGCAGTTCA TTAACTTTTTAAAGGATCTTCTTCTGGTTTTCCCTGACATTCTTCTGGCTAATGCCAA GAGTATCCACCCCCACTCTAGAGTGTGAGGGCACACAACGCTCGAATGGGGCGCTAT GGGGTCACTTCCATGCCTACAATATACCCCTCCCACAGGCACTTTTTGTTTGTCACTGGG GAAAATTGCATTCAACCACTGGTCCCAGTTATCTTCTTACGGAAGTCATCACCCCTGCG CGGGGCCCTTAGGCCCAACACAAACGTTAAGTACTTTCACAACCTCTGGGACAACGGGG AACCTTGCCGCGGGCAGACACCCACCGCGCACTCCCGGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_003706
Insert Size:	2680 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:	<u>NM_003706.1</u> , <u>NP_003697.1</u>
RefSeq Size:	2494 bp
RefSeq ORF:	1626 bp
Locus ID:	8605
UniProt ID:	<u>Q9UP65</u>
Cytogenetics:	19q13.33
Domains:	PLA2_B

Gene Summary:

This gene encodes a protein which is a member of the phospholipase A2 enzyme family which hydrolyzes glycerophospholipids to produce free fatty acids and lysophospholipids, both of which serve as precursors in the production of signaling molecules. The encoded protein has been shown to be a calcium-independent and membrane bound enzyme. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]

Transcript Variant: This variant (1) encodes the predominant isoform (1).