

## Product datasheet for **SC318981**

### **cPLA2 beta (PLA2G4B) (NM\_001114633) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	cPLA2 beta (PLA2G4B) (NM_001114633) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G4B
Synonyms:	cPLA2-beta; HsT16992
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318981 representing NM\_001114633.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGTGGCAGAGGTGTCCAGGACCTGCCTGCTCACGGTTCGTGTCTGCAGGCCATCGCCTACCC
TCTAAGGACCTAGTGACCCCTCTGACTGCTACGTGACTCTTGCTGCCACGGCTGCAGCCACAGG
CTCCAGACACGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACCAGAGCTTCACTTCAGGATCCAC
AGGCAGCTCAAGAATGTATGGAAGTCTTTGACCAGGACCTGGTGACCCGAGATGACCCTGTG
TTGTCACTACTGTTTGTGCGGGGACTCTGCGGGCTGGGAGTTCGGCGCGAGAGCTTCTCACTGAGC
CCTCAGGGTGAGGGGCGCCTGGAAGTTGAATTCGCTGCAGAGTCTGGCTGACCGTGGCGAGTGGCTC
GTCAGCAATGGCGTTCTGGTGGCCCGGAGCTCTCTGCTGCACGTTCAACTGGAGGAGACAGGAGAC
CAGAAGTCTCAGAGCACAGAGTTCAGCTTGTGGTTCCTGGTCTGTGAGGGTCCGAGGAGGCCCTCT
GTGGGCACTGGCACCTTCCGCTTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCTGCAG
GATGCCCCGAGGAGCAACTAAAGGCGCCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGGAGCTTGTCT
TTCCCCACGTCCCAGGAGCCCTGATGAGAGTGGAGCTGAAAAAGAAGCAGGACTGAGGGAGCTGGCC
GTGCGACTGGGCTTCGGGCCCTGTGCAGAGGAGCAGGCCCTTCTGAGCAGGAGGAAGCAGGTGGTGGCC
GCGGCCTTGAGGCAGGCCCTGCAGCTGGACGGAGACCTGCAGGAGGATGAGATCCAGTGGTAGCTATT
ATGGCCACTGGTGGTGGGATCCGGGCAATGACTTCCCTGTATGGGAGCTGGCTGGCCTGAAGGAGCTG
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GAGGACCCAGAGTGGTCTCAGAAGGACCTGGCAGGGCCACTGAGTTGCTGAAGACCCAGGTGACCAAG
AACAGCTGGGTGTGCTGGCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCGTGGCCGC
TTGGGCTACCCAAGCTGTTACCAACCTGTGGGCCCTCATCAACGAGGCCTGCTGCATGATGAGCCC
CATGATCACAAAGCTCTCAGATCAACGGGAGGCCCTGAGTATGGCCAGAACCCTCTGCCATCTACTGT
GCCCTCAACACCAAGGGCAGAGCTGACCACTTTTGAATTTGGGAGTGGTGGAGTCTCTCCCTAC
GAGGTGCGCTTCCCAAGTACGGGGCTTCATCCCTCTGAGCTCTTTGGCTCCGAGTCTTTATGGGG
CAGCTGATGAAGAGGCTTCTGAGTCCCGCATCTGCTTCTAGAAGGTATCTGGAGCAACCTGTATGCA
GCCAACCTCCAGGACAGCTTATACTGGGCTCAGAGCCCAGCCAGTCTGGGACCCTGGGTGAGAAC
CAGGCCAACCTGGACAAGGAGCAGGTCCCCTTCTGAAGATAGAAGAACCACCCTCAACAGCCGGCAGG
ATAGCTGAGTTTTTACCAGTCTTCTGACGTGGCGTCCACTGGCCAGGCCACACATAATTCCTGCGT
GGCCTCCATTTCCACAAAGACTACTTTTACGATCCTCACTTCTCCACATGGAAAGCTACCACTCTGGAT
GGGCTCCCAACCAGCTGACACCCTCGGAGCCCACCTGTGCTGCTGGATGTTGGCTACCTCATCAAT
ACCAGTGCCTGCCCTCCTGCAGCCACTCGGGAGCTGGACCTCATCTGTCTATTGGACTACAACCTC
CACGGAGCCTTCCAGCAGTTGCAGCTCCTGGGCGGTTCTGCCAGGAGCAGGGGATCCCCTTCCCACCC
ATCTCGCCAGCCCCGAAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTGCCCC
GGAGCCCTGCGGTGCTGCATTTCTCTGCTGAGCAGTCTTCCGGGAGTACTCGGCCCTGGGGTC
CGGCGGACACCCGAGGAGCGGCAGCTGGGAGGTGAACCTGTCTTATCGGACTCTCCCTACCCTAC
ACGAAGGTGACCTACAGCCAGGAGGACGTGGACAAGCTGCTGCACCTGACACATTACAATGTCTGCAAC
AACCAGGAGCAGCTGCTGGAGGCTCTGCCAGGACGTGCAGCGGAGGCGCAGCCAGGCCCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI  
 Plasmid Map:   
 ACCN: NM\_001114633  
 Insert Size: 2346 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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:** [NM\\_001114633.1](#)

**RefSeq Size:** 2752 bp

**RefSeq ORF:** 2346 bp

**Locus ID:** 100137049

**UniProt ID:** [P0C869](#)

**Cytogenetics:** 15q15.1

**MW:** 88 kDa

**Gene Summary:** This gene encodes a member of the cytosolic phospholipase A2 protein family. Phospholipase A2 enzymes hydrolyze the sn-2 bond of phospholipids, releasing lysophospholipids and fatty acids. This enzyme may be associated with mitochondria and early endosomes. Most tissues also express read-through transcripts from the upstream gene into this gene, some of which may encode fusion proteins combining the N-terminus of the upstream gene including its JmjC domain with the almost complete coding region of this gene, including the C2 and cytoplasmic phospholipase A2 domains. [provided by RefSeq, Jul 2008]