

Product datasheet for **SC331325**

Calcium independent Phospholipase A2 (PLA2G6) (NM_001199562) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium independent Phospholipase A2 (PLA2G6) (NM_001199562) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcium independent Phospholipase A2
Synonyms:	Cal-PLA2; GVI; INAD1; iPLA2; IPLA2-VIA; iPLA2beta; NBIA2; NBIA2A; NBIA2B; PARK14; PLA2; PNPLA9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC331325 representing NM_001199562.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGTTCCTTTGGCCGCTGGTCAATACCTTCAGTGGCGTCACCAACTTGTCTCTAACCCATTCCGG
GTGAAGGAGGTGGCTGTGGCCGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTG
TCCAGAACACTCCCAACCGCACCTGGGACTGCGTCTGGTCAACCCAGGAACACAGAGTGGATTTC
CGACTCTTCCAGCTGGAGTTGGAGGCTGACGCCCTAGTGAATTTCCATCAGTATTCTTCCAGCTGCTA
CCCTTCTATGAGAGCTCCCTCAGGTCCTGCACACTGAGGTCCTGCAGCACCTGACCGACCTCATCCGT
AACCAACCCAGCTGGTCACTGGCCACCTGGCTGTGGAGCTAGGGATCCGCGAGTCTTCCATCACAGC
CGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACCCCTGCACCTGGCCTGCCGC
AAGGGTGTGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGATGTCACCGACTAC
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AACGCAGTGGCTGGCCTGAACAGGTGAATAACCAAGGGTGACCCCGCTGCACCTGGCCTGCCAGCTG
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CGCGGAGACACGGCAACACCCCGCTGCACCTGGCCATGTGAAAGACAACGTGGAGATGATCAAGGCC
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GGTGGGCTGCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTG
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ATCATGCTGGATGAGGTCAGTGACACAGTGTGGTCAACGCCCTCTGGGAGACCGAGGTCTACATCTAT
GAGCACCGGAGGAGTTCCAGAAGCTCATCCAGCTGCTGCTCACCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI
ACCN: NM_001199562
Insert Size: 2259 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 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](#)

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_001199562.1](#)

RefSeq Size: 3032 bp

RefSeq ORF: 2259 bp

Locus ID: 8398

UniProt ID: [O60733](#)

Cytogenetics: 22q13.1

Protein Pathways: alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway

MW: 84.1 kDa

Gene Summary:

The protein encoded by this gene is an A2 phospholipase, a class of enzyme that catalyzes the release of fatty acids from phospholipids. The encoded protein may play a role in phospholipid remodelling, arachidonic acid release, leukotriene and prostaglandin synthesis, fas-mediated apoptosis, and transmembrane ion flux in glucose-stimulated B-cells. Several transcript variants encoding multiple isoforms have been described, but the full-length nature of only three of them have been determined to date. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (3) differs in the 5' UTR and lacks an in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but lacks an internal segment compared to isoform a. Variants 2, 3, 5 and 6 encode the same protein (isoform b). Isoform b is found in the cytoplasm while isoform a is membrane-bound.