

Product datasheet for **SC126261**

Calcium independent Phospholipase A2 (PLA2G6) (NM_003560) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium independent Phospholipase A2 (PLA2G6) (NM_003560) 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:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003560, the custom clone sequence may differ by one or more nucleotides

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ATGCAGTTCCTTTGGCCGCTGGTCAATACCTTCAGTGGCGTCACCAACTTGTCTCTAACCCATTCCGGG
TGAAGGAGGTGGCTGTGGCCGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTGTT
CCAGAACACTCCCAACCGCACCTGGGACTGCGTCTGGTCAACCCAGGAACTCACAGAGTGGATTCCGA
CTCTCCAGCTGGAGTTGGAGGCTGACGCCCTAGTGAATTTCCATCAGTATTCTTCCAGCTGCTACCCCT
TCTATGAGAGCTCCCCTCAGGTCCTGCACACTGAGGTCCTGCAGCACCTGACCGACCTCATCCGTAACCA
CCCCAGCTGGTCAGTGGCCACCTGGCTGTGGAGCTAGGGATCCGCGAGTGCTTCCATCACAGCCGTATC
ATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACCCTGCACCTGGCTGCCGCAAGGGTG
ATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGATGTCACCGACTACAAGGGAGA
GACCGTCTTCCATTATGCTGTCCAGGGTACAATTCTCAGGTGCTGCAGCTCCTTGAAGGAACGCAGTG
GCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCCGCTGCACCTGGCTGCCAGCTGGGGAAGCAGG
AGATGGTCCGCGTGTGTGCTGTGCAATGCTCGGTGCAACATCATGGGCCCAACGGCTACCCCATCCA
CTCGGCCATGAAGTTCTCTCAGAAGGGGTGTCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCAC
AGCAAAGACCCCCGTTACGGAGCCAGCCCCCTCCACTGGGCAAGAACGCAGAGATGGCCCCGATGCTGC
TGAAACGGGGCTGCAACGTGAACAGCACCGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCG
CAACCGCTTCGACTGTGCCATAGTGTGCTGACCCACGGGGCAACGCGGATGCCCGGGAGAGCACGGC
AACACCCCGCTGCACCTGGCCATGTGAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAG
CAGAAGTGGACACCCGAATGACTTTGGGGAGACTCCTACATTCCTAGCCTCCAAATCGGCAGACTTGT
CACCAGGAAGCGATCTTGACTGTGAGAACCGTGGGGCCGAATACTGCTTCCACCCATCCACGGG
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TCAGCCTAAACAACCTAGAACTACAGGATCTCATGCACATCTCACGGGCCCGGAAGCCAGCGTTCATCCT
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GCGCGGCATGTACTTTCGCATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTACGAGTCGGGGCCCTG
GAGGAGTCTGAAGCGGAGTTTGGGGAGCACACCAAGATGACGGACGTGAGGAAACCAAGGTGATGC
TGACAGGGACACTGTCTGACCGGACCGGGCTGAACTCCACCTCTCCGGAACACGATGCTCCAGAAAC
TGTCGGGAGCCTCGTTCAACCAAGACGTTAACCTCAGGCCTCCAGCTCAGCCCTCAGACCAGCTGGTG
TGGCGGGCGGCCGAAGCAGCGGGCAGCTCCTACTTACTCCGACCAATGGGCCTTCTCTGGACGGTG
GGCTGCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCG
CAAGGGTCAGGCCAACAAGGTGAAGAACTCTCCATCGTTGTCTCCCTGGGGACAGGGAGGTCCCCACAA
GTGCTGTGACCTGTGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTGGGG
CCAAGGAACTGGCAAGATGGTGGTGGACTGTTGCACGGATCCAGACGGGCGGGCTGTGGACCGGGCAGC
GGCCTGGTGCAGATGGTCCGCATCCAGTACTTCAGATTGAACCCCAAGCTGGGGACGGACATCATGCTG
GATGAGGTGAGTACACAGTGTGGTCAACGCCCTCTGGGAGACCGAGGTCTACATCTATGACACCGCG
AGGAGTCCAGAAGCTCATCCAGCTGCTGCTCTCACCTGA
    
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Restriction Sites: NotI-NotI

ACCN: NM_003560

Insert Size: 2400 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: no

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_003560.2</u> , <u>NP_003551.2</u>
RefSeq Size:	3239 bp
RefSeq ORF:	2421 bp
Locus ID:	8398
UniProt ID:	<u>O60733</u>
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 4 encode the same protein (isoform a). Isoform a is membrane-bound while isoform b is found in the cytoplasm.</p>