

Product datasheet for SC119954

Phospholipase A2 IIA (PLA2G2A) (NM_000300) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase A2 IIA (PLA2G2A) (NM_000300) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase A2 IIA
Synonyms:	MOM1; PLA2; PLA2B; PLA2L; PLA2S; PLAS1; sPLA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000300 edited
 ATGAAGACCCTCCTACTGTTGGCAGTGATCATGATCTTTGGCCTACTGCAGGCCCATGGG
 AATTTGGTGAATTTCCACAGAATGATCAAGTTGACGACAGGAAAGGAAGCCGCACTCAGT
 TATGGCTTCTACGGCTGCCACTGTGGCGTGGGTGGCAGAGGATCCCCAAGGATGCAACG
 GATCGCTGCTGTGCTCACTCATGACTGTTGCTACAAACGCTCTGGAGAAACGTGGATGTGGC
 ACCAAATTTCTGAGCTACAAGTTTAGCAACTCGGGGAGCAGAATCACCTGTGCAAAACAG
 GACTCCTGCAGAAGTCAACTGTGTGAGTGTGATAAGGCTGCTGCCACCTGTTTTGCTAGA
 AACAAAGACGACCTACAATAAAAAGTACCAGTACTATTCCAATAAACACTGCAGAGGGAGC
 ACCCTCGTTGCTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000300 unedited
 AGACGACTAGGTTTGNATACNACTTCTATGGGCGGCCGAGCACTTCGCACCAGGGGGATA
 CAACTTTGGAGTCCTCTGAGAGACCCCAAGNAGGAGCAGGGGAGCGACGGCCGGGGCA
 GAAGTTGAGACCACCCAGCAGAGGAGCTAGGCCAGTCCATCTGCATTTGTACCCAAAGAA
 CTCTTACCATGAAGACCCTCCTACTGTTGGCAGTGATCTTGATCTTTGGCCTACTGCAGG
 CCCATGGGAATTTGGTGAATTTCCACAGAATGATCAAGTTGACGACAGGAAAGGAAGCCG
 CACTCAGTTATGGCTTCTACGGCTGCCACTGTGGCGTGGGTGGCAGAGGATCCCCAAGG
 ATGCAACGGATCGCTGCTGTGCTCACTCATGACTGTTGCTACAAACGCTCTGGAGAAACGTG
 GATGTGGCACCAATTTCTGAGCTACAAGTTTAGCAACTCGGGGAGCAGAATCACCTGTG
 CAAAACAGGACTCCTGCAGAAGTCAACTGTGTGAGTGTGATAAGGCTGCTGCCACCTGTT
 TTGCTAGAAACAAGACGACCTACAATAAAAAGTACCAGTACTATTCCAATAAACACTGCA
 GAGGGAGACCCCTCGTTGCTGAGTCCCCTCTTCCCTGGAAACCTTCCACCCAGTGCTGA
 ATTTCCCTCTCTACACCTCCCTCCCTACCCTAACCAAGTTCCTGGCCATGCAGAAAG
 CATCCCTCACCATCCTAGAGGCCAGGCAGGAGCCCTTATACCCACCCAGAATGAGAC
 ATCCAGCAGATTTCCAGCCTTCTACTGCTCTCCTCCACCTCAACTCCGTGCTTAACCAA
 GAAGCTGACTCCGGGGGTCTTCTGAATAAGCATTAGCAATCAAAAAAAAAAAAAAAAAA
 ACTCGCTCTAGATTGG



[View online »](#)

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000300 unedited GACCGCGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGTTTGCTAATTGCTTTA TTAAAAAGACCCCGGATACAGCTTCTTTGGTTAAGCACGGAGTTGAGGTGGAGGAGAG CAGTAGAAGGCTGAAATCTGCTGGATGTCTATTCTGGGTGGGTATAGAAGGGCTCCTG CCTGGCCTCTAGGATGGGTGAGGGATGCTTTCTGCATGGCCAAGGAACTGGTTAGGGTA GGGAGGGAGGGTATGAGAGAGGGAAATTCATCACTGGGTGGAAGGTTCCAGGGAAGAGG GGACTACCACTACGGGTGCTCCCTCTGCACCGCCCATCGAAACTTCCCTGGTACTTTT TTTTGTACGTCTTTTTGTTACTTACACAACCCCTCCCTCATCCCTCTTAAACCCCTT CGTTGACCTTCCCCGTACCCTTTTCTTCTACGTCATTCATGCTCCCCCTTGTTCAC CTTGAATCCCCCAATACTCCCCCTTCCCCCTTTTCCCCCTTCTCCCTTCCCC CACTCCTTTCCCTCCCTCCCCCTCCCTTCTTTTTCTCCTTCCCCCTCTTACCA CTTCCCTCCCCCACCCTCCCNCTTTTCTCCCTTTTTCTCCCCCTCTTTTTCTC CTTCTTTCCCCCCCCCTCTCCCCCCCCCTCTTTCTCTCCCCCTCTCCCTTCC CCTTTCTTTTTCTTCCCCCTTTCCNCTTCCCTCCCCCNNTTCCCTTTCTCCCT TCCCTCCCCCCCCCTCTTCTTCCCCCCCCCTCCCTTTCCCATTCTCCATCTC CCGTTCTTCTTCCCCCTTCTCCGCCCTTCTTCTCCCTTCCAGACCCTTCTCTCCTC CCCTTTTTCGTACGCTCCCTCCCTTTTCTCCCCGCTATCCCTCCCTTTTCTCTACT TTCTCCCCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_000300
Insert Size:	910 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_000300.2</u> , <u>NP_000291.1</u>
RefSeq Size:	997 bp
RefSeq ORF:	435 bp
Locus ID:	5320
UniProt ID:	<u>P14555</u>
Cytogenetics:	1p36.13
Domains:	PA2c

Protein Families:	Druggable Genome, Transmembrane
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:	<p>The protein encoded by this gene is a member of the phospholipase A2 family (PLA2). PLA2s constitute a diverse family of enzymes with respect to sequence, function, localization, and divalent cation requirements. This gene product belongs to group II, which contains secreted form of PLA2, an extracellular enzyme that has a low molecular mass and requires calcium ions for catalysis. It catalyzes the hydrolysis of the sn-2 fatty acid acyl ester bond of phosphoglycerides, releasing free fatty acids and lysophospholipids, and thought to participate in the regulation of the phospholipid metabolism in biomembranes. Several alternatively spliced transcript variants with different 5' UTRs have been found for this gene. [provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) represents the predominant and longest transcript. Variants 1-4 encode the same protein.</p>