

Product datasheet for **SC126365**

PLA2G12A (BC057844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G12A (BC057844) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G12A
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene sequence for BC057844 edited
 AGCGAGGCCCTGCCTGCCAGCCGGGAAGGAGGCGTGGTTATGGAGCTGGCGGCTGCAACC
 CCGGGGCCCGCGCGCTGCTAGCGCTTCCCGGGGCTCTTTGGGGACGCGCCCCCGCC
 GCGGCTCGGGACCCGTAGAGCCGGCGCTGCGCGGTTGGCCCTTCTCCCGCCTCCCGC
 CTCACCTCCTGCTCCTCCTCATGGCAGCTGTTATCAGGTGCCTGGAGCAGGCCTAGACC
 ACCGACTGGAGGGCCACCCTGAAGACCATCCGGAACGGCGTTCATAAGATAGACACGTAC
 CTGAACGCGCCTTGGACCTCCTGGGAGGCGAGGACGGTCTCTGCCAGTATAAATGCAGT
 GACGGATCTAAGCCTTCCACGTTATGGTTATAAACCCCTCCCAACCGAATGGATGTGGC
 TCTCCACTGTTTGGCGTTCATCTTAACATTGGTATCCCTTCCCTGACAAAAGTGTGCAAC
 TAACACGACAGGTGCTATGAGAACTGTGGCAAAAGCAAGAATGACTGTGATGAGAAATTC
 CAGTATTGCCTCTCAAGATCTGCTGAGAAGTACAGAAAACACTAGGACTAAGTATAGCAT
 GTTCAGGCATGTGAAACAACAATGGAGCTCTTGTGTTGACAGTGTATACATTTAGGTTGT
 AAACCATATCTGGACAGCCAACGAGCCACATGCAGGTGCATTATGAAGAAAAAACCAT
 ATTTAAAGGAGATGCTGACAGCTGGTGACAGATGAAGACGGAAGAACAATACCTTTGACA
 AATAACTAATGTTTTACAACATAAAACTATCTGATTTTTGTGAAAAAAGAAAAACAAC
 ATAGTTGGAGCTACCTGTACATCTCCCATATTGCAACACCTCCCTTTCCCAAGATGTAC
 CCATTATCCTAAATTTAGTGTATTATTCTGAGCATTCTATTTCTGTGTAGGTATCC
 TTAAGCAATACATAGTATTTTTTTTGGCAGCTTTAAAAATTATATCATTGGTTACATAC
 AGTGTAATTTCTCAACCTTTTTCTACTCAACCCTGTTTGAAGCTTCACTCAAATGACA
 TGTATACTGTATCTAGTTAGCTGATTTTCATTTCTGTTATGATCCATAGCATGAAAATA
 AGTCACCTTTCCAATGGCTTACCATTATAGAGTGCATGAACTTTTTGTATATGACTCTT
 GGTGTACGTATGTGAATTTCTCTAGAGCATATACTTAGGAATGGAATTGCTGGCTGCATT
 AGTCAGGTTTCTCTAGAGGAACGAACTAATAGGATATATATATATATATATATGTGTGT
 GTGTGTATATATATATATGTGTGTGTGTATATATATATATATATATATATATATGTGT
 ATATATATATATAGTCCACAATAGGCTGTCTGCATGCTCTATTAAACATCACACTGGCT
 GATATGGTTTGGCTCTGTGTTCCCAACCAATCTCATCTTGAATAGTAATCCCATAAATCC
 CCATGTGTCTGGGAGGCACCTTGTGGGAGTAATTGAATCATGGTTTCTTCATGCTGT
 TCTTGTGATAGGAGTGAGTTCTCACGAGATCTGATGGTTTTATAAGCATCTGGCATTTC
 CCTGCTGGCACTCATTCTCTCCTGCTGCCCTGTGAAGAGGTGCCTTTACCATGATTT
 TAAGTTTCTGAGGGCTCCCAAGCCATGTGGAAGTGTGAGTCAATTAACCTCTTTTCTT
 TATAAACAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC057844 unedited
 GTCATAATTTGTATACGACTCACTATAGGCGGCCGCATAAAGTTCGTATAGCATACATTAT
 ACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGAGCGAGGC
 CCTGCCTGCCAGCCGGGAAGGAGGCGTGGTTATGGAGCTGGCGGCTGCAACCCCGGGGCC
 CGCGCCGCTGCTAGCGCTTCCCGGGGCTCTTTGGGGACGCGCCCCCGCGCGGCTCG
 GGGACCCGTAGAGCCGGCGCTGCGCGGTTGGCCCTTCTCCCGCCTCCCGCGCTCACCT
 CCTGCTCCTCCTCATGGCAGCTGTTATCAGGTGCCTGGAGCAGGCCTAGACCACCGACTG
 GAGGGCCACCCTGAAGACCATCCGGAACGGCGTTCATAAGATAGACACGTACCTGAACGC
 CGCCTTGGACCTCCTGGGAGGCGAGGACGGTCTCTGCCAGTATAAATGCAGTGACGGATC
 TAAGCCTTTCCACGTTATGGTTATAAACCCCTCCCAACCGAATGGATGTGGCTCTCCACT
 GTTTGGCGTTTCATCTTAACATTGGTATCCCTTCCCTGACAAGTGTGCAACTAACACGA
 CAGGTGCTATGAGAACTGTGGCAAAAGCAAGAATGACTGTGATGAGAAATTCAGTATTG
 CCTCTCCAGATCTGCTGAGAAGTACAGAAAACACTAGGACTAAGTATCATGTTTCCAGG
 CATGTGAAACCAACATGGGAAGCTCTTGGTTGACAGTGTATACATTTAAGTTGGTAAAC
 CATATCTGGGACGCAACGAGCCACAGGCGAGGTGCCATTTTGAAGAAAAAACCATATT
 AAAAGGAAATGCTGACAGCTGGTGACAGATGAAGACCGGAGAACAATACCCTTGACAAAT
 AACAAAGTTTTTACACATAAAACTTTTGATTTTTGTTGAAAAAGAAA

Restriction Sites: Please inquire

ACCN: BC057844

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:	BC057844.1 , AAH57844.1
RefSeq Size:	1762 bp
Locus ID:	81579
Cytogenetics:	4q25
Protein Families:	Druggable Genome, Secreted Protein
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:	Secreted phospholipase A2 (sPLA2) enzymes liberate arachidonic acid from phospholipids for production of eicosanoids and exert a variety of physiologic and pathologic effects. Group XII sPLA2s, such as PLA2G12A, have relatively low specific activity and are structurally and functionally distinct from other sPLA2s (Gelb et al., 2000 [PubMed 11031251]).[supplied by OMIM, Mar 2008]