

## Product datasheet for **SC122785**

### PLA2G2D (NM\_012400) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G2D (NM_012400) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G2D
Synonyms:	PLA2IID; sPLA2-IID; sPLA2S; SPLASH
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM\_012400 edited  
 TGCTCTGTGCTGGGATCATGGAACCTTGCACTGCTGTGTGGGCTGGTGGTATGGCTGGT  
 TGATTCCAATCCAGGGCGGGATCCTGAACCTGAACAAGATGGTCAAGCAAGTACTGGGA  
 AAATGCCCATCCTCTCTACTGGCCCTACGGCTGCTACTGCGGACTAGGTGGCAGAGGCC  
 AACCCAAAGATGCCACGGACTGGTGTGCCAGACCCATGACTGCTGCTATGACCACCTGA  
 AGACCCAGGGGTGCAGCATCTACAAGGACTATTACAGATAACAATTTTCCAGGGGAACA  
 TCCACTGCTCTGACAAGGGAAGCTGGTGTGAGCAGCAGCTGTGTGCCTGTGACAAGGAGG  
 TGGCCTTCTGCCTGAAGCGAACCTGGACACCTACCAGAAGCGACTGCGTTTCTACTGGC  
 GGCCCCACTGCCGGGGCAGACCCTGGGTGCTAGAAGCCACACCCCTCTACCCTGTTCC  
 TCAGCATGGAGCTCTGGCATCCCCACCTCAGTATCTAACCTGAACCAGCCTGGCTTTTCA  
 AACACTCCGGGGGAGGTAGTCCAGCCTCCCCCGAACCCCTCTACCAATGCCTTCTGAC  
 CTTCTGAAGCTTTCGAATCCTCCAGTTGAGGCAGTAGCTGTGCTCTGAGGGTGGAT  
 GGGAACTTTGGGAGAAGCCCAAGCAAGGGAGCCCTCAGAGGTGGTGTGGACCAAAGCA  
 TCGGGGTGGGGAGGGTCTGCCGCTGTCCCCACCTGCTGGCCCCCTTGTCTTCTCTCA  
 CCCCCTCCAATATAGTCTCGGAGCTACAACCGCAGCAGCCACTATAAAGGGCAATATTGA  
 TCTTTCTGTCCATGTGGCTCTATCTTTTAAAACCTCAAGGCCCTCACTGTCTAAGATA  
 AAGCCTCTCATAGGCACTGGGGACCCTGCACAGTCTGGCCATGTGACCCTCTCCCCAGGC  
 AAGCTCTGAAGTCCCTGCAGGTGGAGGCCATGCCTGTCTTAAACTCAGTTGCATCCCTGG  
 TGCCCAAAGCAACACCAGAACCAAGAAGGAGCTCCATAAATCCTTCTGGGTGAAGCCTA  
 GACAAAGCCCGCAGGTCTTGTGGCTCCAGGCACAGAGCCTTGTACTTTCTCTGCCT  
 CCAGGCATTGGCTCAGGGTGAATTACAAGGGGCTACTGAATGGCTATTACTTTTCATCAG  
 ACTGATCCCCACCTCCTCAGGGTCAAAGGGCTACTTTCTGGAAGTCTCCCCAGGCTGACT  
 CCTTCTCCTGACTGCAAGGGCTCACTCCCTCCTCAAGCTCCCAATGCTTCATGGCT  
 CTGCCGCTTACCTAGCTTGGCCTAGAGTGGCAAATGGAACCTTCTGATCTCCCCAACCT  
 AGACTGGAGCCCCGAAGGATGGAGACCATGTCTGTGCCATCTCTGTTTCCCCTGTTTTT  
 CCACATACTAGGTGCTCAATTCATGCCTGTGAATGGCGTGAGCCATAATGGATACACAG  
 AGGTTGCAGCAGATGGTGTGGGTACCTCACCCAGATATCATCCAGGCCAAGGCCCTCT  
 CCCTGAGTGAGGCCAGGTGTTGGCAGCCAATGCTCCAATCTGCCTCCTTCCCCTAAATA  
 CTGCCCTGGTCTAGTGGGAGCTGCCTTCCCCTGCCACCTCTCCACCAAGAGGCCAC  
 CTGTCACTCATGGCCAGGAGAGTGACACCATGGAGGTACAATTGCCAGCTCCCCGTGT  
 CTGTGCAGGATTGTCTGGGTTGAATGACTCTCAAATTGTTCTGGGATCGGGCTGAGG  
 CCAGGCCCTCCTGGAACCACCTCTCTGCTTGGTCTGACCCTTGGCCTATCCAGTTTTT  
 CTGGTTCCCTCACAGTTTTCTCCAGAAAGTACTCCCTCAGTAAAGCATTGACACAAGAAT  
 CCTTGTCTCAGGCTCTGCTTCTAAGGAAAGAGACTGAAGAGGGACAACCTTTTCTATGA  
 GGACTCCCAATCTGCCATTTGTGTGGCTAGCTGTTTCCAGCCAGGGGGCTGAGGCACC  
 TGCAGTCACCCACTCTGGCCCTGTGGCACCATCTGTGCCTCAGCTGACTGAGCAGTTC  
 TGAGATGTGGTACTCATGTGAAGTGGTGTATAGGAATGAAGGACTGTGGGCGTGGGT  
 TCAAATCCAGTTCTATGCACCACTCCAGGTAGGATACCCATGGGGCAGCTGTGCCTG  
 TGTGGGGAAACAGGGTAGGGAAATCTCCATACCTTCTCAATTTTGTGTGAACCTAAAAC  
 TGCCATATAAAGATAAAGTCTAGGCCAGGCATGGTGGCTCATGCCTGTAATCCCAACACT  
 TAGGGTGGCTGAGGCAGGCAGATCACCTGGGGTCAAGGACTTCAAGACCAGCCTGCCAAC  
 ATGGCAAAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGCATCGTGGTGGGTGCC  
 TGTAAATCCAGCTATTACAGGAGGCTGAGGCAGGAGAATCACTTGGACCTGGGAGGCAGAG  
 GTTTCAGTGAGCCAGATCGCGACACTGCACTCCAGCCTGGGCAACAGAGTGACTCTG  
 TCTCAAAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAAAAAAAAAAAAAAAA  
 AA  
 AA

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_012400 unedited GTTGCATTGTAACACTTTTATAGGCGGCCGCGATTCCCGNNTTGCTCTGTGCTGTGATC ATGGAAGTGGCACTGCTGTGTGGGCTGGTGGTATGGCTGGTGTGATTCCAATCCAGGGC GGGATCCTGAACCTGAACAAGATGGTCAAGCAAGTGACTGGGAAAATGCCATCCTCTCC TACTGGCCCTACGGCTGTCACTGCGGACTATGTGGCAGAGGCCAACCCAAAGATGCCACG GACTGGTGTGCCAGACCCATGACTGCTGCTATGACCACCTGAAGACCCAGGGGTGCAGC ATCTACAAGGACTATTACAGATACAACCTTTCCAGGGGAACATCCACTGCTGTGACAAG GGAAGCTGGTGTGAGCAGCAGTGTGTGCCTGTGACAAGGAGGTGGCCTTCTGCCTGAAG CGAACCTGGACACCTACCAGAAGCGACTGCGTTTCTACTGGCGGCCCCACTGCCGGGG CAGACCCCTGAGTGTAGAAAGCCACACCTCTACCCTGTTCTCAGCATGGAGCTCTAG CATCCCCACCTCAGTATCTAACCTGAACCAGCCTGGCTTTTCAAACACTCCGGGGGGAGG TAGTCCCAGCCTCCCCGGAACCTCTACCAATGCCCTCTGACCTTCTGAAGCTTTCCAAA TCCTCCAGTTGGAGCAGTAGCTGTGCCTCTGAGTTGGTGGGAATCTGGGAGACCC CAAGCCAGGGAGCCCTCCAGAGGTGGTGGTGGACCAAAGCTTCGGGTGGGGGAGAGGGT CTGCCCTGTTCCCACTGTTGGCCCTTTGGCTTCTAACCCCTCCAATTATTCCCGGA GCTACATCCGGCAAGCCACTATAAAGGCAATTTGATCTTTCTTGTCTGGGCTCCATTC TTTAAACCCTAGAGCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_012400
<b>Insert Size:</b>	2747 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_012400.2</a> , <a href="#">NP_036532.1</a>
<b>RefSeq Size:</b>	2747 bp
<b>RefSeq ORF:</b>	438 bp
<b>Locus ID:</b>	26279
<b>UniProt ID:</b>	<a href="#">Q9UNK4</a>
<b>Cytogenetics:</b>	1p36.12
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane

<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	<p>This gene encodes a secreted member of the phospholipase A2 family, and is found in a cluster of related family members on chromosome 1. Phospholipase A2 family members hydrolyze the sn-2 fatty acid ester bond of glycerophospholipids to produce lysophospholipids and free fatty acid. This gene may be involved in inflammation and immune response, and in weight loss associated with chronic obstructive pulmonary disease. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>