

## Product datasheet for **SC329354**

### Phospholipase A2 (PLB1) (NM\_001170585) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase A2 (PLB1) (NM_001170585) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLB1
Synonyms:	PLB; PLB/LIP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001170585, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCTGCGCCAGGCATTTTCTCCTGGAGCTGCTGTGCTTCTGGGCAAGGGACC
CCTCAGATCCATACCTCTCCTAGAAAGAGTACATTGGAAGGGCAGCTATGGCCAGAGACC
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 ATCATCGGACAGTGGTCTGGAGGTGCAGGAGAGGTGGCCGGAGGGAAGATCCTCCAATG  
 AGCCTGCGCACTGTGGCCCTCTAG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001170585

<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_001170585.1</a></u> , <u><a href="#">NP_001164056.1</a></u>
<b>RefSeq Size:</b>	5115 bp
<b>RefSeq ORF:</b>	4344 bp
<b>Locus ID:</b>	151056
<b>UniProt ID:</b>	<u><a href="#">Q6P1J6</a></u>
<b>Cytogenetics:</b>	2p23.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	This gene encodes a membrane-associated phospholipase that displays lysophospholipase and phospholipase A2 activities through removal of sn-1 and sn-2 fatty acids of glycerophospholipids. In addition, it displays lipase and retinyl ester hydrolase activities. The encoded protein is highly conserved and is composed of a large, glycosylated extracellular domain composed of four tandem homologous domains, followed by a hydrophobic segment that anchors the enzyme to the membrane and a short C-terminal cytoplasmic tail. This gene has been identified as a candidate rheumatoid arthritis risk gene. [provided by RefSeq, Jul 2016]