

Product datasheet for **SC125902**

Phospholipase A2 (PLB1) (BC042674) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase A2 (PLB1) (BC042674) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLB1
Synonyms:	hPLB; PLB; PLB/LIP
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 BC042674 edited
 CTTTGTGACCATCTCCGAATGCCTTGGACGTCTGCATAGAGAGGTGCCAGAGTCTCT
 GGTCAACCTCGTGGACTTCTGAACCCACTATCATGCGGCAGGTGTTCTGGGAAACCC
 AGACAAGTGCCAGTGCAGCAGGCCAGCTTGAACCACTTGAAGCAAAACAGAGACCCCTG
 GACCTGAGAGCAGAGATGCCATCACCTGTCCCACTCAGAATGAGCCCTTCTGAGAACC
 CCTCGGAATAGTAACACACGTACCCCATCAAGCCAGCCATTGAGAACTGGGGCAGTGAC
 TTCCTGTGTACAGAGTGAAGGCTTCCAATAGTGTTCACCTCTGTCCACCAGTCCGA
 CCAGCAGACATCAAAGTGGTGGCCGCCCTGGGTGACTCTCTGACTACAGCAGTGGGAGCT
 CGACCAAACAACCTCCAGTGACCTACCCACATCTTGGAGGGGACTCTCTTGGAGCATTGGA
 GGGGATGGGAACTTGGAGACTCACACCACACTGCCAACATTCTGAAGAAGTTCAACCTT
 TACCTCCTTGGCTTCTTACCAGCACCTGGGAGGGGACAGCAGGACTAAATGTGGCAGCG
 GAAGGGGCGCAGAGCTAGGGACATGCCAGCCAGGCCTGGGACCTGTTAGAGCGAATGAAA
 AACAGCCCGACATCAACCTGGAGAAAGACTGGAAGCTGGTCACACTTTCATTGGGGTC
 AACGACTTGTGTCATTACTGTGAGAATCCGGAGGCCACTTGGCCACGGAATATGTTTCAG
 CACATCCAACAGGCCCTGGACATCCTCTCTGAGGAGCTCCAAGGGCTTTCGTCAACGTG
 GTGGAGGTCATGGAGCTGGCTAGCCTGTACCAGGGCCAAGGCGGAAATGTGCCATGCTG
 GCAGCTCAGAACAACCTGCACTTGCCTCAGACACTCGCAAAGCTCCCTGGAGAAGCAAGAA
 CTGAAGAAAGTGAACCTGGAACTCCAGCATGGCATCTCCAGTTTCTCTACTGGCACAA
 TACACACAGCGTGAAGACTTTGCGGTTGTGGTGCAGCCTTTCTTCCAAAACACACTCACC
 CCACTGAACGAGAGAGGGGACACTGACCTCACCTTCTTCTCCGAGGACTGTTTTCACTTC
 TCAGACCGCGGCATGCCGAGATGGCCATCGCACTCTGGAACAACATGCTGGAACCAAGT
 GGCCGCAAGACTACCTCCAACAACCTCACCCACAGCCGAGCCAACTCAAGTGCCCTCT
 CCTGAGAGCCCTTACCTCTACACCTGCGGAACAGCCGATTGCTCCAGACCAGGCTGAA
 GAAGCCCGCAGGTGCTCTACTGGGCTGTCCAGTGGCAGCGGGAGTCCGCTTGTGGTG
 GGCATCATCGGGACAGTGGTCTGGAGGTGCAGGAGAGGTGGCCGAGGGAAGATCCTCCA
 ATGAGCCTGCGCACTGTGGCCCTTAGGCCCGGGGTGGGTCTCACCTAAACTCCCTA
 TAGCCACTCTTACCAGCCCTCTGCCCCAGCCACTCCCGCCACCAGGACATGCTTCAA
 TGCCTGGTGCCATAGGAAGCCAGGGGACAGTCACAACTTCTTGGGGCCTGGGCTTCTC
 CAGGCCTATGCTCCTGGAATGGATACATTTAAATAAAGTCCAAAGCTATTTTAAAAA
 AA
 AA

5' Read Nucleotide Sequence: >OriGene 5' read for BC042674 unedited
 GAGGTTCACTACGCTGGNANCGCCATCCACGCTGTTTTGACCTCCTAGAAGACACCGGG
 ACCGATCCAGCCTCCGGACTTAGCCTAGGCCGCGGGACGGATAACAATTTACACAGGA
 AACAGCTATGACCATTAGGCCTATTTAGGTGACACTATAGAACAAGTTGTACAAAAAG
 CAGGCTGGTACCGGTCCGGAATCCCGGATCTTTGTTGACCATCTCCGCAATGCCTTG
 ACGTCTGCATAGAGAGGTGCCAGAGTCTGGTCAACCTCGTGGACTTCTGAACCCCA
 CTATCATGCGGCAGGTGTTCTGGGAAACCCAGACAAGTGCCAGTGCAGCAGGCCAGCT
 TGAACCACTTGGAAAGCAAAACAGAGACCCTGGACCTGAGAGCAGAGATGCCATCACCTG
 TCCCACCTCAGAATGAGCCCTTCTGAGAACCCTCGGAATAGTAACTACAGTACCCAT
 CAAGCCAGCCATTGAGAACTGGGGCAGTGACTTCTGTGTACAGAGTGGAAAGCTTCCAA
 TAGTGTCCAACTCTGTCCACCAGCTCCGACCAGCAGACATCAAAGTGGTGGCCGCCCT
 GGGTGACTCTCTGACTACAGCAGTGGGAGCTCGACCAAAAACCTCCAGTGACCTACCCAAT
 CTTGGAGGGGACTCTTTTGAACCATGGAGGGGATGGGAACTTGAACCTCACACCACACTG
 CCCAACATTTTGA AAAAGTTCAACCTTACCTCTTTGGCTTCTTACCACACTGGGAAG
 GGACAGCAAGACTAAATGTGGCAGCGGAGGGGGCCGAGCTAGGGACTGCCCCCAAGCC
 TGGGACCTGTTAAAGCAATGAAAACAGCCCGACATTAACCTGGAGAAAAGTGG

Restriction Sites: NotI-NotI
ACCN: BC042674

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:	BC042674.1 , AAH42674.1
RefSeq Size:	1790 bp
Locus ID:	151056
Cytogenetics:	2p23.2
Protein Families:	Transmembrane
Gene Summary:	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]