

Product datasheet for **SC300154**

Phospholipase C beta 3 (PLCB3) (NM_000932) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase C beta 3 (PLCB3) (NM_000932) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase C beta 3
Synonyms:	SMDCD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000932 edited
 ATGGCGGGCGCCAGCCCGCGTCCACGCGTGCAGTTGGAGCCGCCACCGTGGTGGAG
 ACCCTGCGGCGCGGGAGTAAGTTCATCAAATGGGACGAGGAGACCTCCAGTCGGAACCTG
 GTGACCCTGCGTGTGGACCCCAATGGCTTCTTCTGTACTGGACGGGCCCAACATGGAG
 GTGGACACACTGGACATCAGTTCATCAGGGACACACGGACAGGCCGGTACGCCCGCTG
 CCCAAGGACCCCAAGATCCGGAAGTCTGGGCTTTGGGGTCCCGATGCCCGGTGGAG
 GAGAAGCTGATGACGGTGGTGTCTGGGCCAGACCCGGTGAACACAGTGTCTTGAACCTC
 ATGGCCGTGCAGGATGACACAGCCAAGTCTGGTCTGAGGAGCTATTCAAGCTGGCTATG
 AACATCCTGGCTCAGAACGCCTCCCGAACACCTTCTGCGCAAAGCATAACGAAGCTG
 AAGCTGCAGGTGAACCAGGATGGTCCGATCCCCGTCAAGAACATCCTGAAGATGTTCTCA
 GCAGACAAGAAGCGGGTGGAGACTGCGTGGAAATCCTGTGGCCTCAAATCAACCGGAGT
 GAGTCCATCCGGCCTGATGAGTTTTCTTGGAAATCTTTGAGCGTTCTTGAACAAGCTG
 TGTCTGCGGCCGGACATTGACAAGATCCTGCTGGAGATAGGCGCAAGGGCAAGCCATAC
 CTGACGCTGGAGCAGCTCATGGACTTCAACACAGCAAGCAACGCGACCCGAGACTCAAC
 GAAGTGTGTACCCGCCCTGCGGCCCTCCAGGCCCGGTGCTCATCGAAAAGTATGAG
 CCCAACCAGCAGTTTCTGGAGCGAGACCAGATGTCATGGAGGGCTTTAGCCGCTACCTG
 GGAGGGCAGGAGAATGGCATCCTGCCCCGGAAGCCCTGGATCTGAGCACGGACATGACC
 CAGCCACTGAGTGCCTACTTCACTCAACTCCTCGCATAACACCTATCTCACTGCGGGCAG
 CTGGCTGGGACCTCGTCCGTGGAGATGTACCGCCAGGCACTACTATGGGGCTGCCGCTG
 GTGGAGCTGGACGTGTGGAAGGGACGGCCGCTGAGGAGGAACCCCTTATTACCCACGGC
 TTCACCATGACCACAGAGGTGCCTCTGCGCGACGTGCTGGAGGCCATTGCCGAGACTGCC
 TTCAAGACCTCGCCCTACCCCGTCATCCTCTCCTTCGAGAACCATGTGGACTCGGCAAAG
 CAACAGGCAAAGATGGCTGAGTACTGCCGCTCCATCTTTGGAGACGCGTACTCATCGAG
 CCTCTGGACAAGTACCCGCTGGCCCCAGGCGTTCCCTGCCAGCCCCCAGGACCTGATG
 GGCCGTATCCTGGTGAAGAACAAGAAGCGGCACCCGACCCAGCGCAGGTGGCCAGACAGC
 GCCGGGCGCAAGCGGCCCTGGAGCAGAGCAATTCTGCCCTGAGCGAGAGCTCCGCGGCC
 ACCGAGCCCTCTCCCCGAGCTGGGGTCTCCAGCTCTGACAGCTGCCAGGCCTGAGC



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AATGGGGAGGAGGTAGGGCTTGAGAAGCCAGCCTGGAGCCTCAGAAGTCTCTGGGTGAC
 GAGGGCCTGAACCGAGGCCCTATGTTCTTGGACCTGCTGACCGTGAAGATGAGGAGGAA
 GATGAGGAAGAGGAGGAACAGACAGACCCCAAAAAGCCAACTACAGATGAGGGCACAGCC
 AGCAGCGAGGTGAATGCCACTGAGGAGATGTCCACGCTTGTCAACTACATCGAACCTGTC
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 AAGCAGCAGCTCAGCCGCATCTACCCCAAGGGCACCCCGTGGACTCCTCCAATACATG
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 GTGGCGATGCAGCTCAACGCGGGCGTTTTTGTGAGTACAACGGGCGCAGCGGTACCTGCTC
 AAGCCGGAGTTTATGCGGCGCCGACAAGTCCTTCGACCCCTTCACTGAGGTTCATCGTG
 GATGGCATCGTGGCCAATGCCTTGGGGTCAAGGTGATCTCAGGGCAGTTCCTGTCCGAC
 AGGAAGGTGGGCATCTACGTGGAGGTGGACATGTTTGGCCTCCCTGTTGATACGCGGCGC
 AAGTACCCGACCCGACCTCTCAGGGAACTCGTTCAACCCCGTGTGGGACGAAGAGCCC
 TTCGACTTCCCAAGGTGGTGTGCCACGCTGGCTTCACTTCGATTGCAGCCTTTGAG
 GAGGGGGTAAATTCGTAGGGCACCGGATCCTGCCTGTCTGCCATCCGCTCCGGATAC
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 TACACCGAAGCCTCGGACTACATTCTGACGACCACCAGGACTATGCGGAGGCCCTGATC
 AACCCCATTAAGCACGTGAGCCTGATGGACCAGAGGGCCCGCAGCTGGCCGCCCTCATT
 GGGGAGAGTGAGGCTCAGGCTGGCCAAGAGACGTGCCAGGACACCCAGTCTCAGCAGCTG
 GGGTCTCAGCCGCTCTCAAACCCACCCCAAGCCACTGGATGCCTCCCCCGCCGGCC
 CCTGGCCCCACCCTCCCCTGCCAGCACCTCCCTCAGCAGCCAGGGCAGCGTGATGAT
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 AAGGCTCTGGTCAAGCTCCGGAGCCGGCAAGAGCGAGACCTGCGGGAGCTGCGCAAGAAG
 CATCAGCGGAAGGCAAGTACCCTCACCCGCCCTGCTGGATGGCCTGGCTCAGGCACAG
 GCTGAGGGCAGGTGCCGGCTGCGGCCAGGTGCCCTAGGTGGGGCCGCTGATGTGGAGGAC
 ACGAAGGAGGGGGAGGACGAGGCAAGCGGTATCAGGAGTCCAGAACAGACAGGTGCAG
 AGCCTGCTGGAGCTGCGGGAGGCCAGGTGGACGCAGAGGCCAGCGGAGGCTGGAACAC
 CTGAGACAGGCTCTGCAGCGCTCAGGGAGGTGCTCCTTGATGCAAAACAACACTCAGTTC
 AAGAGGCTGAAAGAGATGAACGAGAGGGAGAAGAAGGAGCTGCAGAAGATCCTGGACAGA
 AAGCGCCATAACAGCATCTCGGAGGCCAAGATGAGGGACAAGCATAAGAAGGAGGCGGAA
 CTGACGGAGATTAACCGTCGGCACATCACTGAGTCAGTCAACTCCATCCGTCGGCTGGAG
 GAGGCCCAAGAAGCAGCGCATGACCGTCTTGTGGCTGGGACGACGAGGCTCTGCAACAG
 CTGGCAGAAGAGGAGCCCAAGCTGCTGGCCAGCTGGCCAGGAGTGTGAGGAGCAGCGG
 GCAAGGCTCCCCAGGAGATCCGCCGGAGCCTGCTGGGCGAGATGCCGGAGGGGGTGGG
 GACGGGCTCTGGTGGCCTGTGCCAGCAACGGTACGCACCCGGGAGCAGCGGGCACCTG
 TCGGGCGTGACTCGGAGAGCCAGGAGGAGAACACGCAGCTCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_000932
- Insert Size:** 4500 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).
- OTI Annotation:** The open reading frame of this clone has been fully sequenced and found one SNP within the protein associated with this reference, NM_000932.1. This SNP doesn't change amino acid.
- 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_000932.1, NP_000923.1</u>
RefSeq Size:	3705 bp
RefSeq ORF:	3705 bp
Locus ID:	5331
UniProt ID:	<u>Q01970</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway
Gene Summary:	<p>This gene encodes a member of the phosphoinositide phospholipase C beta enzyme family that catalyze the production of the secondary messengers diacylglycerol and inositol 1,4,5-triphosphate from phosphatidylinositol in G-protein-linked receptor-mediated signal transduction. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 3 both encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>