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Product datasheet for SC329306

Phospholipase C beta 3 (PLCB3) (NM_001184883) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase C beta 3 (PLCB3) (NM_001184883) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLCB3
Synonyms:	SMDCD
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001184883, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCGCCCAGCCCGGCGTCCACGCGCTGCAGTTGGAGCCGCCCACCGTGGTGGAG
ACCCTGCGGCGCGGGAGTAAGTTCATCAAATGGGACGAGGAGAAGCTGATGACGGTGGTG
TCTGGGCCAGACCCAGTGAACACAGTGTTCTTGAACTTCATGGCCGTGCAGGATGACACA
GCCAAGGTCTGGTCTGAGGAGCTATTCAAGCTGGCTATGAACATCCTGGCTCAGAACGCC
TCCCGGAACACCTTCCTGCGCAAAGCATACACGAAGCTGAAGCTGCAGGTGAACCAGGAT
GGTCGGATCCCCGTCAAGAACATCCTGAAGATGTTCTCAGCAGACAAGAAGCGGGTGGAG
ACTGCGCTGGAATCCTGTGGCCTCAAATTCAACCGGAGTGAGTCCATCCGGCCTGATGAG
TTTTCCTTGGAAATCTTTGAGCGGTTCCTGAACAAGCTGTGTCTGCGGCCGGACATTGAC
AAGATCCTGCTGGAGATAGGCGCCAAGGGCAAGCCATACCTGACGCTGGAGCAGCTCATG
GACTTCATCAACCAGAAGCAACGCGACCCGAGACTCAACGAAGTGCTGTACCCGCCCCTG
CGGCCCTCCCAGGCCCGGCTGCTCATCGAAAAGTATGAGCCCAACCAGCAGTTTCTGGAG
CGAGACCAGATGTCCATGGAGGGCTTTAGCCGCTACCTGGGAGGCGAGGAGAATGGCATC
CTGCCCCTGGAAGCCCTGGATCTGAGCACGGACATGACCCAGCCACTGAGTGCCTACTTC
ATCAACTCCTCGCATAACACCTATCTCACTGCGGGGCAGCTGGCTGGGACCTCGTCGGTG
GAGATGTACCGCCAGGCACTACTATGGGGCTGCCGCTGCGTGGAGCTGGACGTGTGGAAG
GGACGGCCGCCTGAGGAGGAACCCTTCATTACCCACGGCTTCACCATGACCACAGAGGTG
CCTCTGCGCGACGTGCTGGAGGCCATTGCCGAGACTGCCTTCAAGACCTCGCCCTACCCC
GTCATCCTCTCCTTCGAGAACCATGTGGACTCGGCAAAGCAACAGGCAAAGATGGCTGAG
TACTGCCGCTCCATCTTTGGAGACGCGCTACTCATCGAGCCTCTGGACAAGTACCCGCTG
GCCCCAGGCGTTCCCCTGCCCAGCCCCCAGGACCTGATGGGCCGTATCCTGGTGAAGAAC
AAGAAGCGGCACCGACCCAGCGCAGGTGGCCCAGACAGCGCCGGGCGCAAGCGGCCCCTG
GAGCAGAGCAATTCTGCCCTGAGCGAGAGCTCCGCGGCCACCGAGCCCTCCTCCCCGCAG
CTGGGGTCTCCCAGCTCTGACAGCTGCCCAGGCCTGAGCAATGGGGAGGAGGTAGGGCTT
GAGAAGCCCAGCCTGGAGCCTCAGAAGTCTCTGGGTGACGAGGGCCTGAACCGAGGCCCC
TATGTTCTTGGACCTGCTGACCGTGAGGATGAGGAGGAAGATGAGGAAGAGGAGGAACAG
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ACAGACCCCAAAAAGCCAACTACAGATGAGGGCACAGCCAGCAGCGAGGTGAATGCCACT
GAGGAGATGTCCACGCTTGTCAACTACATCGAACCTGTCAAGTTCAAGTCCTTTGAGGCT
GCTCGAAAGAGGAACAAATGCTTCGAGATGTCGTCCTTTGTGGAGACCAAGGCCATGGAG
CAACTGACCAAGAGCCCCATGGAGTTTGTGGAATACAACAAGCAGCAGCTCAGCCGCATC
TACCCCAAGGGCACCCGCGTGGACTCCTCCAACTACATGCCCCAGCTCTTCTGGAACGTA
GGGTGCCAGCTTGTTGCGCTCAACTTCCAGACCCTCGATGTGGCGATGCAGCTCAACGCG
GGCGTTTTTGAGTACAACGGGCGCAGCGGGTACCTGCTCAAGCCGGAGTTCATGCGGCGG
CCGGACAAGTCCTTCGACCCCTTCACTGAGGTCATCGTGGATGGCATCGTGGCCAATGCC
TTGCGGGTCAAGGTGATCTCAGGGCAGTTCCTGTCCGACAGGAAGGTGGGCATCTACGTG
GAGGTGGACATGTTTGGCCTCCCTGTTGATACGCGGCGCAAGTACCGCACCCGGACCTCT
CAGGGGAACTCGTTCAACCCCGTGTGGGACGAAGAGCCCTTCGACTTCCCCAAGGTGGTG
CTGCCCACGCTGGCTTCACTTCGCATTGCAGCCTTTGAGGAGGGGGGTAAATTCGTAGGG
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GAGGCCAACCAACCGCTGTGCCTGCCGGCCCTGCTCATCTACACCGAAGCCTCGGACTAC
ATTCCTGACGACCACCAGGACTATGCGGAGGCCCTGATCAACCCCATTAAGCACGTCAGC
CTGATGGACCAGAGGGCCCGGCAGCTGGCCGCCCTCATTGGGGAGAGTGAGGCTCAGGCT
GGCCAAGAGACGTGCCAGGACACCCAGTCTCAGCAGCTGGGGTCTCAGCCGTCCTCAAAC
CCCACCCCCAGCCCACTGGATGCCTCCCCCCGCCGGCCCCCTGGCCCCACCACCTCCCCT
GCCAGCACCTCCCTCAGCAGCCCAGGGCAGCGTGATGATCTCATCGCCAGCATCCTCTCA
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AGCCGGCAAGAGCGAGACCTGCGGGAGCTGCGCAAGAAGCATCAGCGGAAGGCAGTCACC
CTCACCCGCCGCCTGCTGGATGGCCTGGCTCAGGCACAGGCTGAGGGCAGGTGCCGGCTG
CGGCCAGGTGCCCTAGGTGGGGCCGCTGATGTGGAGGACACGAAGGAGGGGGAGGACGAG
GCAAAGCGGTATCAGGAGTTCCAGAACAGACAGGTGCAGAGCCTGCTGGAGCTGCGGGAG
GCCCAGGTGGACGCAGAGGCCCAGCGGAGGCTGGAACACCTGAGACAGGCTCTGCAGCGG
CTCAGGGAGGTCGTCCTTGATGCAAACACAACTCAGTTCAAGAGGCTGAAAGAGATGAAC
GAGAGGGAGAAGAAGGAGCTGCAGAAGATCCTGGACAGAAAGCGCCATAACAGCATCTCG
GAGGCCAAGATGAGGGACAAGCATAAGAAGGAGGCGGAACTGACGGAGATTAACCGTCGG
CACATCACTGAGTCAGTCAACTCCATCCGTCGGCTGGAGGAGGCCCAGAAGCAGCGGCAT
GACCGTCTTGTGGCTGGGCAGCAGCAGGTCCTGCAACAGCTGGCAGAAGAGGAGCCCAAG
CTGCTGGCCCAGCTGGCCCAGGAGTGTCAGGAGCAGCGGGCGAGGCTCCCCCAGGAGATC
CGCCGGAGCCTGCTGGGCGAGATGCCGGAGGGGCTGGGGGACGGGCCTCTGGTGGCCTGT
GCCAGCAACGGTCACGCACCCGGGAGCAGCGGGCACCTGTCGGGCGCTGACTCGGAGAGC
CAGGAGGAGAACACGCAGCTCTGA

Restriction Sites: Please inquire

ACCN: NM_001184883

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: 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.

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:	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:	NM_001184883.1, NP_001171812.1
RefSeq Size:	5527 bp
RefSeq ORF:	3504 bp
Locus ID:	5331
UniProt ID:	Q01970
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:	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] Transcript Variant: This variant (2) lacks an in-frame portion of the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to 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.