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Product datasheet for SC309945

Phospholipase C beta 1 (PLCB1) (NM_015192) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase C beta 1 (PLCB1) (NM_015192) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase C beta 1
Synonyms:	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_015192 edited
GCAGAATCCGCCGCGACTGGCAGCCTCGGCTGACCGGCTCGGCTTCTCTTCGCCTTCCGA
GGCTCCTCATCCACCGCGGGCTCCAGACCTCGCGTCCCGCCCGGGGCATGGCCGGGCGCT
GCGCCCCCGCGCGCTCTGCCTGCTGAGCGGCGCCGGAGGGAGGTGCGGAGGCCGGGAGGC
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TGGATTCCCCAAAGCAGCAAGCCAAGATGGCGGAGTACTGCCGACTGATCTTTGGGGATG
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AATTTTATGTGCTTTCATCACAAATCCAAAGGAAAGAATAAAAATTTCTTAACACAAAAA
AAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_015192

Insert Size: 7100 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 TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single 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:	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_015192.2, NP_056007.1
RefSeq Size:	6705 bp
RefSeq ORF:	3651 bp
Locus ID:	23236
UniProt ID:	Q9NQ66
Cytogenetics:	20p12.3
Domains:	C2, PI-PLC-X, PI-PLC-Y
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:	The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longer isoform (a).