

## Product datasheet for **SC315255**

### Phospholipase C beta 4 (PLCB4) (NM\_000933) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Phospholipase C beta 4 (PLCB4) (NM\_000933) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PLCB4  
**Synonyms:** ARCND2; PI-PLC  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000933, the custom clone sequence may differ by one or more nucleotides

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ATGCCAAACCTTATGAATTTAACTGGCAGAAGGAAGTCCCTCCTTTTTGCAAGAAGGA
ACAGTTTTTGACAGATACGAGGAGGAATCCTTTGTGTTGAACCAACTGCCTCTTCAA
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CATGTGGCAGAAGAACGCAATATTCATTATAACATGTCTTCTTTAATGAATCAGTCGGT
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GTGTCCCAAACGCAAGGCGAAGGAGATGCAGCAGATGGTAAAATTTGGAAGCCGAGATGGA
CCGCAGACCAGCAACAGTAGTATGAAACTCCAAAATGCAAAC

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- Restriction Sites:** Please inquire
- ACCN:** NM\_000933
- 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).

<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>	<a href="#">NM_000933.2</a> , <a href="#">NP_000924.2</a>
<b>RefSeq Size:</b>	5546 bp
<b>RefSeq ORF:</b>	3585 bp
<b>Locus ID:</b>	5332
<b>UniProt ID:</b>	<a href="#">Q15147</a>
<b>Cytogenetics:</b>	20p12.3-p12.2
<b>Domains:</b>	C2, PI-PLC-X, PI-PLC-Y
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	<p>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 in the retina. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (1) lacks an alternate in-frame exon in the central coding region and includes an alternate exon in the 3' coding region that results in a frameshift, compared to variant 3. The complete exon combination of the 5' UTR for this variant has not been determined. The resulting isoform (a) lacks an internal segment and has a longer and distinct C-terminus, compared to isoform c.</p>