

## Product datasheet for RC223811L3

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## Phospholipase C beta 4 (PLCB4) (NM\_000933) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Phospholipase C beta 4 (PLCB4) (NM\_000933) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Phospholipase C beta 4

Synonyms: ARCND2; PI-PLC

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

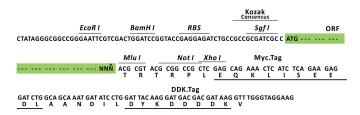
The ORF insert of this clone is exactly the same as(RC223811).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_000933

ORF Size: 3582 bp



## Phospholipase C beta 4 (PLCB4) (NM\_000933) Human Tagged Lenti ORF Clone - RC223811L3

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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.

C2, PI-PLC-X, PI-PLC-Y

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 000933.3</u>

RefSeq Size:5425 bpRefSeq ORF:3585 bpLocus ID:5332

UniProt ID: Q15147

Domains:

**Cytogenetics:** 20p12.3-p12.2

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

**MW:** 136.1 kDa

**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 in the retina. Multiple transcript variants encoding different isoforms have been found

for this gene. [provided by RefSeq, Feb 2010]