

Product datasheet for **SC338135**

Phospholipase C epsilon 1 (PLCE1) (NM_001288989) Human Untagged Clone

Product data:

| | |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Phospholipase C epsilon 1 (PLCE1) (NM_001288989) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PLCE1 |
| Synonyms: | NPHS3; PLCE; PPLC |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001288989, the custom clone sequence may differ by one or more nucleotides |

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GTATCCAAACCAAGGAGGAGAAAACCTGTGGGTGGCTTGTCTCCAGTGACACAATGGATTACCGACAGTG
A
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001288989

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).

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_001288989.1](#), [NP_001275918.1](#)

RefSeq Size: 7957 bp

RefSeq ORF: 6861 bp

Locus ID: 51196

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| UniProt ID: | Q9P212 |
| Cytogenetics: | 10q23.33 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system |
| Gene Summary: | <p>This gene encodes a phospholipase enzyme that catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate to generate two second messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG). These second messengers subsequently regulate various processes affecting cell growth, differentiation, and gene expression. This enzyme is regulated by small monomeric GTPases of the Ras and Rho families and by heterotrimeric G proteins. In addition to its phospholipase C catalytic activity, this enzyme has an N-terminal domain with guanine nucleotide exchange (GEF) activity. Mutations in this gene cause early-onset nephrotic syndrome; characterized by proteinuria, edema, and diffuse mesangial sclerosis or focal and segmental glomerulosclerosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.</p> |