

## Product datasheet for RC210375L4V

## OriGene Technologies, Inc.

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## CDS1 (NM\_001263) Human Tagged ORF Clone Lentiviral Particle

## **Product data:**

**Product Type:** Lentiviral Particles

**Product Name:** CDS1 (NM\_001263) Human Tagged ORF Clone Lentiviral Particle

Symbol: CDS1
Synonyms: CDS 1

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

**ACCN:** NM\_001263 **ORF Size:** 1383 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC210375).

Sequence:

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.

**RefSeg:** NM 001263.2

 RefSeq Size:
 4546 bp

 RefSeq ORF:
 1386 bp

 Locus ID:
 1040

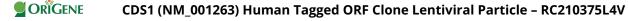
 UniProt ID:
 Q92903

 Cytogenetics:
 4q21.23

**Domains:** CTP\_transf\_1

**Protein Families:** Transmembrane





**Protein Pathways:** Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

MW: 53.3 kDa

**Gene Summary:** Breakdown products of phosphoinositides are ubiquitous second messengers that function

downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13. [provided by