

Product datasheet for **RC200281**

CDIPT (NM_006319) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDIPT (NM_006319) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDIPT
Synonyms:	PIS; PIS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200281 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGACGAAAATATCTTCTGTTTCGTGCCAACCTCATCGGTTATGCCCGGATTGTCTTCGCCATCA
TTTCTTTCTACTTCATGCCCTGCTGCCCTCACGGCTCCTCCTTCTACCTGCTCAGCGGCTGCTGGA
CGCTTTTCGATGGACACGCTGCTCGGCTCTTAATCAAGGAACCCGGTTGGGGCCATGCTGGACATGCTG
ACGGACCCTGCTCCACCATGTGCCTGTTGGTCAACCTGGCCCTGCTGTACCCTGGAGCCAGCTGTTCT
TCCAAATCAGCATGAGTTTGGATGTGGCCAGTCACTGGCTGCACCTCCACAGTTCTGTGGTCCGAGGCAG
TGAGAGTCACAAGATGATCGACTTGCCGGAATCCGGTCTTCGGATCTACTACCTCGAGGCCCTGCT
CTGTTACCTTGTGTGCTGGGAATGAGCTCTTCTACTGCCTCCTACTGTTCCATTTCTGAGGGAC
CTTTAGTTGGCTCTGTGGGACTGTTCCGGATGGCCCTCTGGGTCAGTCCCCCATCGCCTTCTGAGATC
GCTCATCAGCGTCATCCACCTGATCACGGCCGCCGCAACATGGCTGCCCTGGACGCAGCAGACCGCGCC
AAGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200281 protein sequence
Red=Cloning site Green=Tags(s)

MPDENIFLVPNLIGYARIVFAIISFYFMPCCPLTASSFYLLSGLLDAFDGHAARALNQGTRFGAMLDML
 TDR CSTMCLLVNLLALYPGATLFFQISM SLDVASHWLHLHSSVVRGSESHKMIDL SGNPVLRIYYTSRPA
 LFTLCAGNELFYCLLYLFHFSEGPLVGSVGLFRMGLWVTAPIALLKSLISVIHLITAARNMAALDAADRA
 KKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6061_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006319

ORF Size: 639 bp

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.
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_006319.5](#)

RefSeq Size: 1928 bp

RefSeq ORF: 642 bp

Locus ID: 10423

UniProt ID: [O14735](#)

Cytogenetics: 16p11.2

Domains: CDP-OH_P_transf

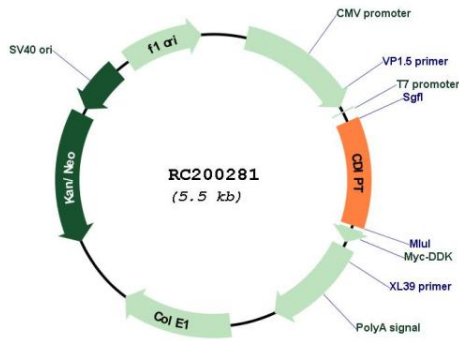
Protein Families: Transmembrane

Protein Pathways: Glycerophospholipid metabolism, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

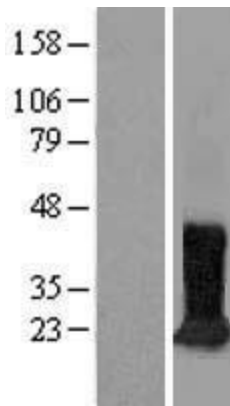
MW: 23.5 kDa

Gene Summary: Phosphatidylinositol breakdown products 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. Two enzymes, CDP-diacylglycerol synthase and phosphatidylinositol synthase, are involved in the biosynthesis of phosphatidylinositol. Phosphatidylinositol synthase, a member of the CDP-alcohol phosphatidyl transferase class-I family, is an integral membrane protein found on the cytoplasmic side of the endoplasmic reticulum and the Golgi apparatus. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]

Product images:



Circular map for RC200281



Western blot validation of overexpression lysate (Cat# [LY416733]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200281 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).