

Product datasheet for **SC333953**

CDIPT (NM_001286586) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDIPT (NM_001286586) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDIPT
Synonyms:	PIS; PIS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333953 representing NM_001286586. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTGGACATGCTGACGGACCGCTGCTCCACCATGTGCCTGTTGGTCAACCTGGCCCTGCTGTACCC
GGAGCCACGCTGTTCTTCCAAATCAGCATGAGTTGGATGTGGCCAGTCACTGGCTGCACCTCCACAGT
TCTGTGGTCCGAGGCAGTGAGAGTCACAAGATGATCGACTTGTCCGGGAATCCGGTGCTTCGGATCTAC
TACACCTCGAGGCCTGCTCTGTTACCTTGTGTGCTGGGAATGAGCTCTTCTACTGCCTCCTCTACCTG
TTCCATTTCTCTGAGGGACCTTTAGTTGGCTCTGTGGACTGTTCCGGATGGCCCTGCGGTCACTGCC
CCCATCGCCTTGCTGAAGTCGCTCATCAGCGTCATCCACCTGATCACGGCCGCCCAACATGGCTGCC
CTGGACGCAGCAGACCGGCCAAGAAGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001286586
Insert Size:	447 bp
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_001286586.1](#)

RefSeq Size: 1843 bp

RefSeq ORF: 447 bp

Locus ID: 10423

Cytogenetics: 16p11.2

Protein Families: Transmembrane

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

MW: 16.4 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]
Transcript Variant: This variant (3) uses an alternate splice junction at the 5' end of an exon and initiates translation at a downstream AUG compared to variant 1. The resulting isoform (3) is shorter at the N-terminus compared to isoform 1.