

[Go to Product page](#)

Datasheet for ABIN7553274  
**CDS1 Protein (AA 1-461) (His tag)**

## Overview

Quantity:	1 mg
Target:	CDS1
Protein Characteristics:	AA 1-461
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat CDS1 Protein expressed in mammalian cells.
Sequence:	<p>MLELRHRGSC PGPREAVSPP HREGAAGGD HETESTSDKE TDIDDRYGD L DSRTDSDIPE IPPSSDRTP E ILKKALSGLS SRWKNWWIRG ILTLTMISLF FLIIYMGFSM LMLLVLGIQV KCFHEIITIG YRVYHSYDLP WFRTLWYFL LCVNYFFYGE TVADYFATFV QREEQLQFLI RYHRFISFAL YLAGFCMFVL SLVKKHYRLQ FYMFAWTHVT LLITVTQSHL VIQNLFEGMI WFLVPISSVI CNDITAYLFG FFFGRTPLIK LSPKKTWEGF IGGFFSTVVF GFIAAYVLSK YQYFVCPVEY RSDVNSFVTE CEPSELFQLQ TYSLPPFLKA VLRQERVS LY PFQIHSIALS TFASLIGPFG GFFASGFKRA FKIKDFANTI PGHGGIMDRF DCQYLMATFV HVYITSFIRG PNPSKVLQQL LVLQPEQQLN IYKTLKTHLI EKGILQPTLK V <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

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### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

CDS1

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### Alternative Name:

CDS1 ([CDS1 Products](#))

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### Background:

Phosphatidate cytidyltransferase 1 (EC 2.7.7.41) (CDP-DAG synthase 1) (CDP-DG synthase 1) (CDP-diacylglycerol synthase 1) (CDS 1) (CDP-diglyceride pyrophosphorylase 1) (CDP-diglyceride synthase 1) (CTP:phosphatidate cytidyltransferase 1),FUNCTION: Catalyzes the conversion of phosphatidic acid (PA) to CDP-diacylglycerol (CDP-DAG), an essential intermediate in the synthesis of phosphatidylglycerol, cardiolipin and phosphatidylinositol (PubMed:9407135, PubMed:25375833). Exhibits almost no acyl chain preference for PA, showing no discrimination for the sn-1/sn-2 acyl chain composition of PAs (PubMed:25375833). Plays an important role in regulating the growth of lipid droplets which are storage organelles at the center of lipid and energy homeostasis (PubMed:26946540, PubMed:31548309). Positively regulates the differentiation and development of adipocytes (By similarity). {ECO:0000250|UniProtKB:P98191, ECO:0000269|PubMed:25375833, ECO:0000269|PubMed:26946540, ECO:0000269|PubMed:31548309, ECO:0000269|PubMed:9407135}.

## Target Details

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Molecular Weight: 53.3 kDa

UniProt: [Q92903](#)

Pathways: [Inositol Metabolic Process](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months