

Datasheet for ABIN7553118
CDS2 Protein (AA 1-445) (His tag)



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Overview

Quantity:	1 mg
Target:	CDS2
Protein Characteristics:	AA 1-445
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDS2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CDS2 Protein expressed in mammalian cells.
Sequence:	<p>MTELRQRVAH EPVAPPEDKE SESEAKVDGE TASDESRAE SAPLPVSADD TPEVLNRALS NLSSRWKNWW VRGILTAMI AFFFIIYLG PMVLMIVMC VQIKCFHEII TIGYNVYHSY DLPWFRTLW YLLCVNYFF YGETVTDYFF TLVQREEPLR ILSKYHRFIS FTLYLIGFCM FVLSLVKKHY RLQFYMFGWT HVTLLIVVTQ SHLVIHNLFE GMIWFIVPIS CVICNDIMAY MFGFFFGRTP LIKLSPKKTW EFGIGGFAT VVFGLLLSYV MSGYRCFVCP VEYNNDTNSF TVDCEPSDLF RLQEYNIPGV IQSVIGWKTV RMYPFQIHSI ALSTFASLIG PFGGFFASGF KRAFKIKDFA NTIPGHGGIM DRFDCQYLMA TFDVNYIASF IRGNPNSKLI QQFLTLRPDQ QLHIFNLTLS HLIDKGMTS TTEDE 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.</p>
Characteristics:	Key Benefits:

Product Details

- 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.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	CDS2
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Alternative Name:	CDS2 (CDS2 Products)
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Background:	Phosphatidate cytidyltransferase 2 (EC 2.7.7.41) (CDP-DAG synthase 2) (CDP-DG synthase 2) (CDP-diacylglycerol synthase 2) (CDS 2) (CDP-diglyceride pyrophosphorylase 2) (CDP-diglyceride synthase 2) (CTP:phosphatidate cytidyltransferase 2),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:25375833). Exhibits specificity for the nature of the acyl chains at the sn-1 and sn-2 positions in the substrate, PA and the preferred acyl chain composition is 1-stearoyl-2-arachidonoyl-sn-phosphatidic acid (PubMed:25375833). Plays an important role in regulating the growth and maturation of lipid droplets which are storage organelles at the center of lipid and energy homeostasis (PubMed:26946540, PubMed:31548309). {ECO:0000269 PubMed:25375833, ECO:0000269 PubMed:26946540, ECO:0000269 PubMed:31548309}.
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Molecular Weight:	51.4 kDa
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UniProt:	O95674
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Application Details

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

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
