

Datasheet for ABIN7564749  
**CCAR2 Protein (AA 1-922) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CCAR2
Protein Characteristics:	AA 1-922
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCAR2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Ccar2 Protein expressed in mammalien cells.
Sequence:	MSQFKRQRIN PLPGGRNFSG AASTSLLGPP PGLLTPPVAT DLSQNARHLQ SGEKQRVFTG IVTSLHDYFG VVDEEVFFQL SVVKGRLPQL GEKVLVKAAY NPGQAVPWNA VKVQTLNQP LLKSPAPPLL HVAALGQKQG ILGAQQLIF QPHRIPPLFP QKPLSLFQTS HTLHLSHLNR FPARGPHGRL DQGRSDDYDS KKRKQRAGGE PWGAKKPRHD LSPYRVHLTP YTVDSPTCDF LELQRRYRSL LVPSDFLSVH LSWLSAFPLG QPFSLHHPSR IQVSSEKEAA PDTGAEPSPE DSDPTYSSKV LLLSSPGLLEE FYRCCMLFVD DMAEPRETPE HPLKQLKFLG GRKEEEAVLV GGEWSPSLDG LDPQADPQVL VRTAIRCAQA QTGIDLSTCT KWWRFQAEFY LQPGPPRQLH TVVVYLPDVW TIMPTLEWE ALCQQKATEA APQPHEASGE AEATEQAPDV SEQADTSKQN TETMEATTQQ DVDTDLPEAP PPLEPAVMA RPRCVNLSLY GIVEDRRPKE RISFEVVLA ELFVEMLQRD FGYRIYKTLI SLPEKVVSP EPEKEEAAKE DAVKEEEAVK EEAVKVSKDE VQNEGTAES DSPLKEDGLL PKRPSSGGEE EEKARGEAAE DLCEMALDPD LLLLRRDDGED

## Product Details

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EFAGAKLEET EVRSVASNQS EMEYSSLQDM PKELDPSTVL PLDCLLAFVF FDANWCGYLH  
RRDLERVLLT LGIRLSAEQA KQLVSRVVAQ NICQYRSLQY SRAEVLDDGL PEDVLFGNLD  
LLPPSGKSTK PGAAPTEHKG LVPHNGSLIN VGSLLQRAEQ QDSGRLYLEN KIHTLELKLE  
ESHNRFSATE VTNKTLAAEM QELRARLAEA EETARTAERQ KNQLQRQMQD FRRRLTPLHL  
EMQRIVEKAD SWVEKEEPTP SN **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.**

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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

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## Target Details

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### Target:

CCAR2

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### Alternative Name:

Ccar2 ([CCAR2 Products](#))

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### Background:

Cell cycle and apoptosis regulator protein 2 (Cell division cycle and apoptosis regulator protein 2),FUNCTION: Core component of the DBIRD complex, a multiprotein complex that acts at the interface between core mRNP particles and RNA polymerase II (RNAPII) and integrates transcript elongation with the regulation of alternative splicing: the DBIRD complex affects local transcript elongation rates and alternative splicing of a large set of exons embedded in (A + T)-rich DNA regions (By similarity). Inhibits SIRT1 deacetylase activity leading to increasing levels

## Target Details

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of p53/TP53 acetylation and p53-mediated apoptosis (By similarity). Inhibits SUV39H1 methyltransferase activity (PubMed:19218236). Mediates ligand-dependent transcriptional activation by nuclear hormone receptors (By similarity). Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress (By similarity). Regulates the circadian expression of the core clock components NR1D1 and BMAL1 (PubMed:23398316). Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation (PubMed:23398316). Represses the ligand-dependent transcriptional activation function of ESR2 (By similarity). Acts as a regulator of PCK1 expression and gluconeogenesis by a mechanism that involves, at least in part, both NR1D1 and SIRT1 (PubMed:24415752). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed:21030595). Positively regulates the beta-catenin pathway (canonical Wnt signaling pathway) and is required for MCC-mediated repression of the beta-catenin pathway (By similarity). Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3 (By similarity). Plays an important role in tumor suppression through p53/TP53 regulation, stabilizes p53/TP53 by affecting its interaction with ubiquitin ligase MDM2 (PubMed:25732823). Represses the transcriptional activator activity of BRCA1 (By similarity). Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (By similarity).

{ECO:0000250|UniProtKB:Q8N163, ECO:0000269|PubMed:19218236, ECO:0000269|PubMed:21030595, ECO:0000269|PubMed:23398316, ECO:0000269|PubMed:24415752, ECO:0000269|PubMed:25732823}.

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Molecular Weight: 103.0 kDa

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UniProt: [Q8VDP4](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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## Handling

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months