

Datasheet for ABIN3136465

**CCAR1 Protein (AA 1-1146) (His tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	CCAR1
Protein Characteristics:	AA 1-1146
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCAR1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MAQFGGQKNP PWATQFTATA VSQPAALGVQ QPSLLGASPT IYQQTALAA AGLTTQTPAN YQLTQTAALQ QQAAAVLQQQ YSQPQQALYS VQQQLQQPQQ TILTQPAVAL PTSLSLSTPQ PAAQITVSYP TPRSSQQQTQ PQKQRVFTGV VTKLHDTFGF VDEDVFFQLG AVKGKTPQVG DRVLVEATYN PNMPFKWNAQ RIQTLPNQNN SQTQPLLKTP TAVIQPIVPQ TTFGVQAQPQ PQSLLQAQIS AASITPLLQT QPQPLLQQPQ QKAGLLQPPV RIVSQPQPAR RLDPPSRFSG RNDRGDQVPN RKDDRSRERD RERRRSRERS PQRKRSRERS PRRRERSRPR RVRRVVPRTY VQFSKFSLDC PSCDMMELRR RYQNLIPSD FFDAQFTWVD AFPLSRPFQL GNYCNFYVMH REVESLEKNM AVLDPPDADH LYSKAVMLMA SPSMEDLYHK SCALAEDPQD LRDGFQHPAR LVKFLVGMKG KDEAMAIGGH WPSLDGPNP EKDPVLIKT AIRCCKALTG IDLSVCTQWY RFAEIRYHRP EETHKGRTVP AHVETVVLFF PDVWHCLPTR SEWETLSRGY KQQLVEKLQG ERKKADGEQD EEEKDDGEVK EIATPTHWSK LDPKAMKVND LRKELESRAL SSKGLKSQLI ARLTQQLKIE EQKEEQKELE KSEKEEDED DKKSEDDKEE EERKRQEEVE RQRQERRYIL
-----------	---

PDEPAIIVHP NWAAKSGKFD CSIMSLSVLL DYRLDNKEH SFEVSLFAEL FNEMLQRDFG  
VRIYKSLLSL PEKEDKKDKE KKSKEERKD KKEEREDDID EPKPKRRKSG DDKDKKEDRD  
ERKKEEKRKD DSKDDDETEE DNNQDEYDPM EAEEAEDEDD DREEEEVKRD DKRDVSRYCK  
DRPAKDKEKE KPQMVTVNRD LLMAFVYFDQ SHCGYLLEKD LEEILYTLGL HLSRAQVKKL  
LNKVVLRESC FYRKLTDTSK DDENHEESEA LQEDMLGNRL LLPTPTIKQE SKDGEENVGL  
IVYNGAMVDV GSLLQKLEKS EKVRAEVEQK LQLLEKTDE DGKTILNLEN SNKSLSGELR  
EVKKDLGQLQ ENLEVSENMN LQFENQLNKT LRNLSTVMDD IHTVLKKNV KSEDRDEKSK  
ENGSGV

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

---

### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ccar1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

---

### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

## Product Details

2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

Target: CCAR1

Alternative Name: Ccar1 ([CCAR1 Products](#))

Background: Associates with components of the Mediator and p160 coactivator complexes that play a role as intermediaries transducing regulatory signals from upstream transcriptional activator proteins to basal transcription machinery at the core promoter. Recruited to endogenous nuclear receptor target genes in response to the appropriate hormone. Also functions as a p53 coactivator. May thus play an important role in transcriptional regulation. May be involved in apoptosis signaling in the presence of the retinoid CD437. Apoptosis induction involves sequestration of 14-3-3 protein(s) and mediated altered expression of multiple cell cycle regulatory genes including MYC, CCNB1 and CDKN1A. Plays a role in cell cycle progression and/or cell proliferation (By similarity). In association with CALCOCO1 enhances GATA1- and MED1-mediated transcriptional activation from the gamma-globin promoter during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781). Can act as a both a coactivator and corepressor of AR-mediated transcription. Contributes to chromatin looping and AR transcription complex assembly by stabilizing AR-GATA2 association on chromatin and facilitating MED1 and RNA polymerase II recruitment to AR-binding sites. May play an important role in the growth and tumorigenesis of prostate cancer cells (PubMed:23887938). {ECO:0000250|UniProtKB:Q8IX12, ECO:0000269|PubMed:23887938, ECO:0000269|PubMed:24245781}.

Molecular Weight: 133.0 kDa Including tag.

UniProt: [Q8CH18](#)

## 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.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process