

Datasheet for ABIN3090515

CCAR1 Protein (AA 1-1150) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CCAR1
Protein Characteristics:	AA 1-1150
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCAR1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAQFGGQKNP PWATQFTATA VSQPAALGVQ QPSLLGASPT IYTQQTALAA AGLTTQTPAN YQLTQTAALQ QQAAAAAAL QQQYSQPQQA LYSVQQQLQQ PQQTLLTQPA VALPTSLSLS TPQPTAQITV SYTPRSSHQ QTQPQKQRFV TGVVTKLHDT FGFVDEDVFF QLSAVKGGTP QVGDRVLVEA TYNPNMPFKW NAQRIQTLPN QNQSQTQPLL KTPPAVLQPI APQTTFGVQT QPQPQSLLQA QISAASITPL LQTQPQPLLQ QPQQKAGLLQ PPVRIVSQPQ PARRLDPPSR FSGRNDRGDQ VPNRKDDRSR ERERERRRSR ERSQQRKRSR ERSRRERER SPRRVRRVVP RYTVQFSKFS LDCPSCDMME LRRRYQONLYI PSDDFDAQFT WVDAPLSRP FQLGNYCNFY VMHREVESLE KNMAILDPPD ADHLYSAKVM LMASPSMEDL YHKSCALAED PQELRDGFQH PARLVKFLVG MKGKDEAMAI GGHWSPLDG PDPEKDPSVL IKTAIRCCKA LTGIDLSVCT QWYRFAEIRY HRPEETHKGR TVPAHVETVV LFFPDVWHCL PTRSEWETLS RGYKQQLVEK LQGERKEADG EQDEEEKDDG EAKEISTPTH WSKLDPKTMK VNDLRKELES RALSSKGLKS

QLIARLTKQL KVEEQKEEQK ELEKSEKEED EDDDRKSEDD KEEERKRQE EIERQRRERR
YILPDEPAII VHPNWAAKSG KFDCSIMSLS VLLDYRLEDN KEHSFEVSLF AELFNEMLQR
DFGVRIYKSL LSLPEKEDKK EKDKKSKKDE RKDKKEERDD ETDEPKPKRR KSGDDKDKKE
DRDERKKEDK RKDDSKDDDE TEEDNNQDEY DPMEAEAAED EEDDRDEEEM TKRDDKRDIN
RYCKERPSKD KEKEKTQMIT INRDLLMAFV YFDQSHCGYL LEKDLEEILY TLGLHLSRAQ
VKLLNKVVL RESCFYRKLT DTSKDEENHE ESESLQEDML GNRLLLPTPT VKQESKDVVEE
NVGLIVYNGA MVDVGSLLQK LEKSEKVRAE VEQKLQLLEE KTDEDEKIL NLENSNKSLS
GELREVKKDL SQLQENLKIS ENMNLQFENQ MNKTIRNLST VMDEIHTVLK KDNVKNEDKD
QSKKENGASV

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Product Details

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: CCAR1

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

Background: Cell division cycle and apoptosis regulator protein 1 (Cell cycle and apoptosis regulatory protein 1) (CARP-1) (Death inducer with SAP domain),FUNCTION: 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 (By similarity). May be involved in apoptosis signaling in the presence of the renoind 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 (PubMed:12816952). 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:Q8CH18, ECO:0000269|PubMed:12816952, ECO:0000269|PubMed:23887938, ECO:0000269|PubMed:24245781}.

Molecular Weight: 132.8 kDa

Target Details

UniProt: [Q8IX12](#)

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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months