

Datasheet for ABIN3090189

**CC2D2A Protein (AA 1-1620) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	CC2D2A
Protein Characteristics:	AA 1-1620
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CC2D2A protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MNPREEKVKI ITEEFIENDE DADMGRQKN SKVRRQPRKK QPPTAVPKEM VSEKSHLGNP QEPVQEEPKT RLLSMTVRRG PRSLPIPST SRTGFAEFMS RGRMREKLQA ARSKAESALL QEIPTRPRRR LRSPSKKELE TFGTEPGKE VERTQQEVDS QSYSRVKFHD SARKIKPKPQ VPPGFPSAEE AYNFFTFNFD PEPEGSECKP KARHRAGTNQ EEEEEEEEEP PAQGGGKEMD EEELLNGDDA EDFLLGLDHV ADDFVAVRPA DYESIHDRLQ MEREMLFIPS RQTVPTYKKL PENVQPRFLE DEGLYTGVRP EVARTNQNM ENRLLMQDPE RRWFGDDGRI LALPNPIKPF PSRPPVLTQE QSIKAELET YKKAVKYVHS SQHVIRSGDP PGNFQLDIDI SGLIFTHHPC FSREHVLA AK LAQLYDQYLA RHQRNKAFL TDKLQALRNA VQTGLDPEKP HQSLDTIQKT INEYKSEIRQ TRKFRDAEQE KDRTLTKTII KVKEMKSLR EFQRFTNTPL KLVLRKEKAD QKADEEAYEA IEQAEISELL EEHTEEYAK MEEYRTSLQQ WKAWRKVQRA KKKKRKQAAE EHPGDEIAEP YPEEDLVKPS PPEPTDRAVI EQEVRERAAQ SRRRPWEPTL VPESLAGSV TPNDQCPRAE VSRREDVKKR SVYLVLFNN KEVSRTVSRP LGADFRVHFG QIFNLQIVNW
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PESLTLQVYE TVGHSSPTLL AEVFLPIPET TVVTGRAPTE EVEFSSNQHV TLDHEGVGSG  
VPFSFEADGS NQLTLMTSGK VSHSVAWAIG ENGIPLIPPL SQQNIGFRSA LKKADAISII  
GTSGLTDMKK LAKWAAESKL DPNDPNNAPL MQLISVATSG ESYVPDFFRL EQLQQEFNFV  
SDQELNRSKR FRLHLRSQE VPEFRNYKQV PVYDREIMEK VFQDYEKRLR DRNVIETKEH  
IDTHRAIVAK YLQQVRESVI NRFLIAKQYF LLADMIVEEE VPNISILGLS LFKLAEQKRP  
LRPRRKGRKK VTAQNLSDGD IKLLVNIVRA YDIPVRKPAV SKFQQPSRSS RMFSEKHAAS  
PSTYSPTHNA DYPLGQVLVR PFVEVSFQRT VCHTTTAECP NPSWNEEEL PFAPNGDYS  
TASLQSVKDV VFINIFDEVL HDVLEDDRER GSGIHTRIER HWLGCVKMPF STIYFQARID  
GTFKIDIPPV LLGYSKERNM ILERGFDVSR SLSEGSYITL FITIEPQLVP GESIREKFES QEDEKLLQAT  
EKFQAECAK FPNRQCLTTV IDISGKTVFI TRYLKPLNPP QELNVYPNN LQATAELVAR  
YVSLIPFLPD TVSFGGICDL WSTSDQFLDL LAGDEEEHAV LLCNYFLSLG KKAWLLMGNA  
IPEGPTAYVL TWEQGRYLIW NPCSGHFYQG FDTFCPLKNV GCLIGPDNIW FNIQRYESPL  
RINFVDVTRPK LWKSFFSRSL PYPGLSSVQP EELIYQRSDK AAAAELQDRI EKILKEKIMD  
WRPRHLTRWN RYCTSTLRHF LPLLEKSQGE DVEDDHRAEL LKQLGDYRFS GFPLHMPYSE  
VKPLIDAVYS TGVHNIDVPN VEFALAVYIH PYPKNVLSVW IYVASLIRNR

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human CC2D2A 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

## Product Details

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.
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:** CC2D2A

**Alternative Name:** CC2D2A ([CC2D2A Products](#))

**Background:** Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Required for ciliogenesis and sonic hedgehog/SHH signaling (By similarity). {ECO:0000250, ECO:0000269|PubMed:18513680}.

**Molecular Weight:** 187.1 kDa Including tag.

**UniProt:** [Q9P2K1](#)

## 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:** 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

## Application Details

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