

Datasheet for ABIN3090189

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

Overview

Quantity:	1 mg
Target:	CC2D2A
Protein Characteristics:	AA 1-1620
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CC2D2A protein is labelled with Strep Tag.
Application:	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 EEEEGEEEEEP PAQGGGKEMD EEELLNGDDA EDFLLGLDHV ADDFVAVRPA DYESIHDRLQ MEREMLFIPS RQTVPTYKKL PENVPQRFLE DEGLYTGVRP EVARTNQNM ENRLLMQDPE RRWFGDDGRI LALPNPIKPF PSRPPVLTQE QSIKAELET YKAVKYVHS SQHVIRSGDP PGNFQLDIDI SGLIFTHHPC FSREHVLA AK LAQLYDQYLA RHQRNKAFL TDKLQALRNA VQTGLDPEKP HQSLDTIQKT INEYKSEIRQ TRKFRDAEQE KDRTLLKTII 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 ILERGFDSVR SLSEGSYITL FITIEPQLVP GESIREKFES QEDEKLLQAT
EKFQAEALK FPNRQCLTTV IDISGKTVFI TRYLKPLNPP QELINVYPNN LQATAELVAR
YVSLIPFLPD TVSFGGICDL WSTSDQFLDL LAGDEEEHAV LLCNYFLSLG KKAWLLMGNA
IPEGPTAYVL TWEQGRYLIW NPCSGHFYQG FDTFCPLKNV GCLIGPDNIW FNIQRYESPL
RINFDVTRPK LWKSFFSRSL PYPGLSSVQP EELIYQRSDK AAAAELQDRI EKILKEKIMD
WRPRHLTRWN RYCTSTLRHF LPLLEKSQGE DVEDDHRAEL LKQLGDYRFS GFPLHMPYSE
VKPLIDAVYS TGVHNIDVPN VEFALAVYIH PYPKNVLSVW IYVASLIRNR

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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-

Product Details

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!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	CC2D2A
Alternative Name:	CC2D2A (CC2D2A Products)
Background:	Coiled-coil and C2 domain-containing protein 2A,FUNCTION: 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:	186.2 kDa

Target Details

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: 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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



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