

Datasheet for ABIN3095016  
**CdGAP Protein (AA 1-1444) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	CdGAP (ARHGAP31)
Protein Characteristics:	AA 1-1444
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CdGAP protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MKNKGAKQKL KRKGAASAFG CDLTEYLESS GQDVPYVLKS CAEFIETHGI VDG IYRLSGV  
 TSNIQRLRQE FGSDQCPDLT REVYLQDIHC VGSLCKLYFR ELPNPLLTYE LYEFKTEAVS  
 HCPEEQLAR IQNVIQELPP SHYRTLEYLI RHLAHIASFS SKTNMHARNL ALVWAPNLLR  
 SKEIATGCN GDA AFLAVRV QQV VIEFILN HVDQIFNNGA PGSLENDENR PIMKSLTLPA  
 LSLPMKLVSL EEAQARSLAT NHPARKERRE NSLPEIVPPM GTLFHTVLEL PDNKRKLSK  
 SKKWKSIFNL GRSGSDSKSK LSRNGSVFVR GQRLSVEKAT IRPAKSMDSL CSVPVEGKET  
 KGNFNRTVTT GFFIPATKM HSTGTGSSCD LTKQEGEWGQ EGMPPGAEGG FVSSDRSHL  
 QGAQARPPPE QLKVFRPVED PESEQTAPKM LGMFYTSNDS PSKSVFTSSL FQMEPSRNQ  
 RKALNISEPF AVSVPLRVSA VISTNSTPCR TPPKELQSL SLEEF SFHGS ESGGWPEEEK  
 PLGAETSAAS VPKKAGLEDA KAVPEAPGTV ECSKGLSQEP GAHLEEKTP ESSLSSQHLN  
 ELEKRPNPEK VVEEGREAGE MESSTLQESP RARAEAVLLH EMDEDDLANA LIWPEIQQEL  
 KIIIESEEELS SLPPPALKTS PIQPILESSL GPFIPEPPG SLPCGSFPAP VSTPLEVWTR

DPANQSTQGA STAASREKPE PEQGLHPDLA SLAPLEIVPF EKASPQATVE VGGPGNLSPP  
LPPAPPPPTP LEESTPVLLS KGGPEREDSS RKLRTDLYID QLKSQDSPEI SSLCQGEEAT  
PRHSDKQNSK NAASEGKCG FPSPTREVEI VSQEEEDVTH SVQEPSDCDE DDTVTDIAQH  
GLEMVEPWEE PQWVTSPLHS PTLKDAHKAQ VQGLQGHQLE KRLSHRPSLR QSHSLDSKPT  
VKSQWTLEVP SSSSCANLET ERNSDPLQPQ APRREITGWD EKALRSFREF SGLKGAEAPP  
NQKGPSGVQP NPAETSPISL AEGKELGTHL GHSSPQIRQG GVPGPESSE SSPSVQDSTS  
PGEHPAKLQL KSTECGPPKG KNRPSSLNLD PAIPIADLFW FENVASFSSP GMQVSEPGDP  
KVTWMTSSYC KADPWRVYSQ DPQDLDIVAH ALTGRRNSAP VSVSAVRTSF MVKMCQARAV  
PVIPPKIQT QIPQPLPSQS SGENGVQPLE RSQEGPSSTS GTTQKPAKDD SPSSLESSKE  
EKPKQDPGAI KSSPVDATAP CMCEGPTLSP EPGSSNLLST QDAVVQCRKR MSETEPSGDN  
LLSSKLERPS GGSKPFHRSR PGRPQSLIF SPPFPIMDHL PPSSTVTDSK VLLSPIRSPT  
QTVSPGLLCG ELAENTWVTP EGVTLRNKMT IPKNGQRLET STSCFYQPQR RSVILDGRSG RQIE

**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.**

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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-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

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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## Target Details

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Target:	CdGAP (ARHGAP31)
Alternative Name:	ARHGAP31 ( <a href="#">ARHGAP31 Products</a> )
Background:	Rho GTPase-activating protein 31 (Cdc42 GTPase-activating protein),FUNCTION: Functions as a GTPase-activating protein (GAP) for RAC1 and CDC42. Required for cell spreading, polarized lamellipodia formation and cell migration. {ECO:0000269 PubMed:12192056, ECO:0000269 PubMed:16519628}.
Molecular Weight:	157.0 kDa
UniProt:	<a href="#">Q2M1Z3</a>

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## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

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## Application Details

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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

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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