

Datasheet for ABIN3094883  
**RAB3GAP2 Protein (AA 1-1393) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	RAB3GAP2
Protein Characteristics:	AA 1-1393
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB3GAP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MACSIVQFCY FQDLQAARDF LPHLREEIL SGALRRDPSK STDWEDDGWG AWEENEPQEP  
EEEGNTCKTQ KTSWLQDCVL SLSPTNDLMV IAREQKAVFL VPKWKYSDKG KEEMQFAVGW  
SGSLNVEEGE CVTSALCIPL ASQKRSSTGR PDWTCIVVGF TSGYVRFYTE NGVLLLAQLL  
NEDPVLQLKC RTYEIPRHPG VTEQNEELSI LYPAAIVTID GFSLFQSLRA CRNQVAKAAA  
SGNENIQPPP LAYKKWGLQD IDTIIDHASV GIMTLSPFDQ MKTASNIGGF NAAIKNSPPA  
MSQYITVGSN PFTGFFYALE GSTQPLLSHV ALAVASKLTS ALFNAASGWL GWKSKHEEEA  
VQKQKPKVEP ATPLAVRFGL PDSRRHGESI CLSPCNTLAA VTDDFGRVIL LDVARGIAIR  
MWKGYRDAQI GWIQTVEDLH ERVPEKADFS PFGNSQGPSR VAQFLVIYAP RRGILEVWST  
QQGPRVGAFN VGKHCRLLYP GYKIMGLNNV TSQSWQPQTY QICLVDPVSG SVKTVNVPFH  
LALSDKKSER AKDMHLVKKL AALLKTKSPN LDLVETEIKE LILDIKYPAT KKQALESILA  
SERLPFSCLR NITQTLMDTL KSQELESVDE GLLQFCANKL KLLQLYESVS QLNSLDFHLD  
TPFSDNDLAL LLRLDEKELL KLQALLEKYK QENTRTNVRF SDDKDGVLVPV KTFLEYLEYE

KDVLNIKKIS EEEYVALGSF FFWKCLHGES STEDMCHTLE SAGLSPQLLL SLLSVWLSK  
EKDILDKPQS ICCLHTMLSL LSKMKVAIDE TWDSQSVSPW WQQMRTACIQ SENNGAALLS  
AHVGHSAVAQ ISNNMTEKKF SQTVLGADSE ALTDSEALS LDTEYWKLLL KQLEDCLILQ  
TLLHSGNTQ TSKVSSLQAE PLPRLSVKKL LEGGKGGIAD SVAKWIFKQD FSPEVLKLAN  
EERDAENPDE PKEGVNRSFL EVSEMMDLG AIPDLLHLAY EQFPCSLELD VLHAHCCWEY  
VVQWNKDPEE ARFFVRSIEH LKQIFNAHVQ NGIALMMWNT FLVKRFSAAAT YLMDKVGKSP  
KDRLCRRDVG MSDTAMTSFL GSCLDLLQIL MEADVSRDEI QVPVLDTEA WLSVEGPISI  
VELALEQKHI HYPLVEHHSI LCSILYAVMR FSLKTVKPLS LFDSKGKNAF FKDLTSIQLL  
PSGEMDPNFI SVRQQFLLKV VSAAVQAQHS ATKVKDPTEE ATPTPFGKDQ DWPALAVDLA  
HHLQVSEDVV RRHYVGELYN YGVDHLGEEA ILQVHDKEVL ASQLLVLTGQ RLAHALLHTQ  
TKEGMELLAR LPPTLCTWLK AMDPQDLQNT EVPIATTAKL VNKVIELLPE KHGQYGLALH  
LIEAVEAISL PSL

**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:	RAB3GAP2
Alternative Name:	RAB3GAP2 ( <a href="#">RAB3GAP2 Products</a> )
Background:	Rab3 GTPase-activating protein non-catalytic subunit (RGAP-iso) (Rab3 GTPase-activating protein 150 kDa subunit) (Rab3-GAP p150) (Rab3-GAP150) (Rab3-GAP regulatory subunit),FUNCTION: Regulatory subunit of the Rab3 GTPase-activating (Rab3GAP) complex composed of RAB3GAP1 and RAB3GAP2, which has GTPase-activating protein (GAP) activity towards various Rab3 subfamily members (RAB3A, RAB3B, RAB3C and RAB3D), RAB5A and RAB43, and guanine nucleotide exchange factor (GEF) activity towards RAB18 (PubMed:9733780, PubMed:24891604). As part of the Rab3GAP complex, acts as a GAP for Rab3 proteins by converting active RAB3-GTP to the inactive form RAB3-GDP (By similarity). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones (By similarity). The Rab3GAP complex, acts as a GEF for RAB18 by promoting the conversion of

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## Target Details

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inactive RAB18-GDP to the active form RAB18-GTP (PubMed:24891604). Required for recruiting and activating RAB18 at the endoplasmic reticulum (ER) membrane where it maintains proper ER structure (PubMed:24891604). Required for normal eye and brain development (By similarity). May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters (By similarity). {ECO:0000250|UniProtKB:Q15042, ECO:0000269|PubMed:24891604, ECO:0000269|PubMed:9733780}.

Molecular Weight: 156.0 kDa

UniProt: [Q9H2M9](#)

## Application Details

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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

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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

## Handling

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

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## Images

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