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Datasheet for ABIN3089152

## ARHGEF40 Protein (AA 1-1519) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	ARHGEF40
Protein Characteristics:	AA 1-1519
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF40 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MEPEPVEDCV QSTLAALYPP FEATAPTLG QVFQVVERTY REDALRYTLD FLVPAKHLLA  
KVQQEACAQY SGFLFFHEGW PLCLHEQVVV QLAALPWQLL RPDGFYLQVV PSAAQAPRLA  
LKCLAPGGGR VQEVVPNEA CAYLFTPEWL QGINKDRPTG RLSTCLLSAP SGIQRLPWAE  
LICPRFVHKE GLMVGHQPST LPPELPSGPP GLPSPPLPEE ALGTRSPGDG HNAPVEGPEG  
EYVELLEVTL PVRGSPTDAE GSPGLSRVRT VPTRKGAGGK GRHRRHRAWM HQKGLGPRGQ  
DGARPPGEGS STGASPESPP GAEAVPEAAV LEVSEPPAEA VGEASGSCPL RPGELRGGGG  
GGQGAEGPPG TPRRTGKGNR RKKRAAGRGA LSRGGDSAPL SPGDKEDASH QEALGNLPS  
SEHKLPECHL VKEEYEGSGK PESEPKELKT AGEKEPQLSE ACGPTEEGAG ERELEGPLL  
CMAGHTGPEG PLSDTPTPL ETVQEGKGDN IPPEALAVSV SDHPDVAWDL MASGFLITG  
GVDQSGRALL TITPPCPPEE PPPSRDTLNT TLHYLHSLLR PDLQTLGLSV LLDLRQAPPL  
PPALIPALSQ LQDSGDPLV QRLILIHDD LPTELCGFQG AEVLENDLK RVAKPEELQW  
ELGGHRDPSP SHWVEIHQEV VRLCRLCQGV LGSVRQAIEE LEGAAEPEEE EAVGMPKPLQ

KVLADPRLTA LQRDGGAILM RLRSTPSSKL EGQGPATLYQ EVDEAIHQVLV RLSNLHVQQQ  
EQRQCLRRLLQ QVLQWLSGPG EEQLASFAMP GDTLSALQET ELRFRAFSAE VQERLAQARE  
ALALEENATS QKVLDFEQR LEQVESGLHR ALRLQRFFQQ AHEWVDEGFA RLAGAGPGRE  
AVLAALALRR APEPSAGTFQ EMRALALDLG SPAALREWGR CQARCQELER RIQQHVGEAA  
SPRGYRRRRA DGASSGGAQW GPRSPSPSLS SLLLPSSPGP RPAPSHCSLA PCGEDYEEEG  
PELAPEAEGR PPAVLIRGL EVTSTEVVDR TCSPREHVLL GRARGPDGPW GVGTPRMERK  
RSISAQQLV SELIACEQDY VATLSEPVPV PGPELTPELR GTWAAALSAR ERLRSFHRTH  
FLRELQGCAT HPLRIGACFL RHGDQFSLYA QYVKHRHKLE NGLAALSPLS KGSMEAGPYL  
PRALQQPLEQ LTRYGRLLLE LLREAGPELS SECALGAAV QLLREQEARG RDLLAVEAVR  
GCEIDLKEQG QLLHRDPFTV ICGRKKCLRH VFLFEHLLLF SKLKGPEGGS EMFVYKQAFK  
TADMGLTENI GDSGLCFELW FRRRRAREAY TLQATSPEIK LKWTSSIAQL LWRQAAHNKE  
LRVQQMVMVG IGKPFLLDIK ALGERTLSAL LTGRAARTRA SVAVSSFEHA GPSLPGLSPG  
ACSLPARVEE EAWDLVDVKI SLAPETLDSS GDVSPGPRNS PSLQPPHPGS STPTLASRGI  
LGLSRQSHAR ALSDPTTPL

**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.

## Product Details

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- 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.

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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

## Target Details

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Target:	ARHGEF40
Alternative Name:	ARHGEF40 ( <a href="#">ARHGEF40 Products</a> )
Background:	Rho guanine nucleotide exchange factor 40 (Protein SOLO),FUNCTION: May act as a guanine nucleotide exchange factor (GEF). {ECO:0000250}.
Molecular Weight:	164.7 kDa
UniProt:	<a href="#">Q8TER5</a>

## 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.

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**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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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