

Datasheet for ABIN3089111

## ARHGEF10 Protein (AA 1-1369) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ARHGEF10
Protein Characteristics:	AA 1-1369
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MRPPGFLSRA PSLNRAERGI WSCSMDQREP LPPAPAENEM KYDTNNNEEE EGEQFDFDSG</p> <p>DEIPEADRQA PSAPETGGAG ASEAPAPTGG EDGAGAETTP VAEPTKLVLK MKVNPYSVID</p> <p>ITPFQEDQPP TPVPSAEEN VGLHVPCGYL VPVPCGYAVP SNLPLLLPAY SSPVIICATS</p> <p>LDEEAETPEV TEDRQPNSLS SEEPPTSEDQ VGREDSALAR WAADPANTAW MENPEEAIYD</p> <p>DVPRENSDSE PDEMIYDDVE NGDEGGNSSL EYGWSSSEFE SYEEQSDSEC KNGIPRSFLR</p> <p>SNHKKQLSHD LTRLKEHYEK KMRDLMASTV GVVEIQQLRQ KHELMQKLK KAAKDGTKDG</p> <p>LERTRAAVKR GRSFIRTKSL IAQDHRSSLE EEQNLFIDVD CKHPEAILTP MPEGLSQQQV</p> <p>VRRYILGSVV DSEKNYVDAL KRILEQYEKP LSEMEPKVLS ERKLKTVFYR VKEILQCHSL</p> <p>FQIALASRVS EWDSVEMIGD VFVASFSKSM VLDAYSEYVN NFSTAVAVLK KTCATKPAFL</p> <p>EFLKQEAS PDRTTLYSLM MKPIQRFPQF ILLQDMLKN TSKGHPDRLP LQMALTELET</p> <p>LAEKLNERKR DADQRCEVKQ IAKAINERYL NKLLSSGSRV LIRSDDMIET VYNDRGEIVK</p>

TKERRVFMLN DVLMCATVSS RPSHDSRVMS SQRYLLKWSV PLGHVDAIEY GSSAGTGEHS  
RHLAVHPPEL LAVVANAKPN KVYMGPGQLY QDLQNLLHDL NVIGQITQLI GNLKGNYNL  
NQSVAHDWTS GLQRLILKKE DEIRAADCCR IQLQLPGKQD KSGRPTFFTA VFNTFTPAIK  
ESWVNSLQMA KLALEENHM GWFCVEDDGN HIKKEKHPLL VGHMPVMVAK QQEFKIECAA  
YNPEPYLNNE SQPDSFSTAH GFLWIGSCTH QMGQIAVSF QNSTPKVIEC FNVESRILCM  
LYVPVEEKRR EPGAPDPET PAVRASDVPT ICVGTEEGSI SIYKSSQGSK KVRQLQHFFTP  
EKSTVMSLAC TSQSLYAGLV NGAVASYARA PDGSWDSEPQ KVIKLGVLVP RSLMMEDTL  
WAASGGQVFI ISVETHAVEG QLEAHQEEGM VISHMAVSGV GIWIAFTSGS TLRLFHTETL  
KHLQDINIAT PVHNMLPGHQ RLSVTSLLVC HGLLMVGTSL GVLVALPVPR LQGIPKVTGR  
GMVSYHAHNS PVKFIVLATA LHEKDKDKSR DSLAPGPEPQ DEDQKDALPS GGAGSSLSQG  
DPDAIWLGD SLGSMTQKSD LSSSSGSLSL SHGSSSLEHR SEDSTIYDLL KDPVSLRSKA  
RRAKKAKASS ALVVCGGQGH RRVHRKARQP HQEELAPTVM VWQIPLLNI

**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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 components needed for protein production (amino acids, cofactors, etc.) are added to

## Product Details

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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	ARHGEF10
Alternative Name:	ARHGEF10 ( <a href="#">ARHGEF10 Products</a> )
Background:	Rho guanine nucleotide exchange factor 10,FUNCTION: May play a role in developmental myelination of peripheral nerves. {ECO:0000269 PubMed:14508709}.
Molecular Weight:	151.6 kDa
UniProt:	<a href="#">O15013</a>

## 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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

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Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months