

Datasheet for ABIN3137221

**ARHGEF7 Protein (AA 1-862) (Strep Tag)**[Go to Product page](#)

## Overview

Quantity:	250 µg
Target:	ARHGEF7
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF7 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Brand:	AliCE®
Sequence:	<p>MNSAEQTVTW LITLGVLESP KKTISDPEVF LQASLKDGVV LCRLLERLLP GTIEKVYPEP RNESECLSNi REFLRACGAS LRLETFDAND LYQGQNFNKV LSSLVTLNKV TADIGLGSDS VCARPSSHRI KSFDLSGSQS SHSRTSKLLQ SQYRSLDMTD NTNSQLVVRA KFNFAQQTNE ELSFSKGDVI HVTRVEEGGW WEGTHNGRTG WFPSNYVREI KPSEKPVSPK SGTLSPPKG FDTTAINKSY YNVVLQNILE TEHEYSKELQ SVLSTYLRPL QTSDKLSSAN TSYLMGNLEE ISSFQQVLVQ SLEECTKSPE AQQRVGGCFL SLMPQMRTLY LAYCANHPSA VSVLTEHSED LGEFMETKGA SSPGILVLT GLSKPFMRD KYPTLLKELE RHMEDYHPDR QDIQKSMTAF KNLSAQCEV RKRKELELQI LTEPIRSWEG DDIKTLGSVT YMSQVTIQCA GSEEKNERYL LLFPNLLLML SASPRMSGFI YQGKLPTTGM TITKLESEN HRNAFEISGS MIERILVSCT SQQDLHEWVE HLQKQTKVTS VSNPTIKPHS VPSHTLPSPH LTPSSKHADS KPVALTPAYH TLPHPSHHGT PHTTISWGFL EPPKTPKPWS LSCLRPAPPL RPSAALCYKE DLSKSPKTMK</p>

KLLPKRKPER KPSDEEFAVR KSTAALEEDA QILKVIEAYC TSAKTRQTLN STWQGTDLMH  
NHVLADDDQS SLDSLGRSS LSRLEPSDLS EDSEYDSIWT AHSYRMGSAS RSRKESAPQV  
LLPEEEKIIV EETKSNGQTV IEEKSLVDTV YALKDEVQEL RQDNKKMKKS LEEEQARKD  
LEKLVRKVLK NMNDPAWDET NL

**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 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.

## Product Details

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: ARHGEF7

Alternative Name: Arhgef7 ([ARHGEF7 Products](#))

Background: Rho guanine nucleotide exchange factor 7 (Beta-Pix) (PAK-interacting exchange factor beta) (p85SPR),FUNCTION: Acts as a RAC1 guanine nucleotide exchange factor (GEF) and can induce membrane ruffling. May function as a positive regulator of apoptosis. Functions in cell migration, attachment and cell spreading. Promotes targeting of RAC1 to focal adhesions. Downstream of NMDA receptors and CaMKK-CaMK1 signaling cascade, promotes the formation of spines and synapses in hippocampal neurons (By similarity). {ECO:0000250, ECO:0000269|PubMed:17093062}.

Molecular Weight: 97.1 kDa

UniProt: [Q9ES28](#)

Pathways: [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [EGFR Downregulation](#)

## 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.

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Application Details

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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