



[Go to Product page](#)

Datasheet for ABIN3089240

## SGEF Protein (AA 1-871) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	SGEF (ARHGEF26)
Protein Characteristics:	AA 1-871
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGEF protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MDGESEVDFS SNSITPLWRR RSIPQPHQVL GRSKPRPQSY QSPNGLLITD FPVEDGGTLL  
AAQIPAQVPT ASDSRTVHRS PLLLGAQRRR VANGGTASPE YRAASPRLRR PKSPKLPKAV  
PGGSPKSPAN GAVTL PAPP PPVLRPPRTP NAPAPCTPEE DLTGLTASPV PSPTANGLAA  
NNDSPGSGSQ SGRKAKDPER GLFPGPQKSS SEQKLPLQRL PSQENELLEN PSVVLSTNSP  
AALKVGKQOI IPKSLASEIK ISKSNQNV EPHKRLKVR S MVEGLGGPLG HAGEESEVDN  
DVDSPGSLRR GLRSTSYRRA VVSGDFD DSP TSSKKKNRMS QPVLKVMED KEKFSSLGRI  
KKKMLKGQGT FDGEENAVLY QNYKEKALDI DSDEESEPKE QKSDEKIVIH HKPLRSTWSQ  
LSAVKRKGLS QTVSQEERKR QEAIFEVISS EHSYLLSLEI LIRMFKNSKE LSDTMTKTER  
HHLFSNITDV CEASKKFFIE LEARHQNNIF IDDISDIVEK HTASTFDPYV KYCTNEVYQQ  
RTLQKLLATN PSFKEVLSRI ESHEDCRNLP MISFLILPMQ RVTRLPLLM D TICQKTPKDS  
PKYEVCRRAL KEVSKLVRLC NEGARKMERT EMMYTINSQL EFKIKPFPLV SSSRWLVKRG  
ELTAYVEDTV LFSRRTSKQQ VYFFLFNDVL IITKKKSEES YNVNDYSLRD QLLVESCDNE

ELNSSPGKNS STMLYSRQSS ASHLFTLTVL SNHANKEKVM LAGAETQSER ARWITALGHS  
SGKPPADRTS LTQVEIVRSF TAKQPDELSL QVADVLLIQ RVSDGWYEGE RLRDGERGWF  
PMECAKEITC QATIDKNVER MGRLLGLETN V

**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.**

---

### 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 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.

## Product Details

---

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

---

Target:	SGEF (ARHGEF26)
Alternative Name:	ARHGEF26 ( <a href="#">ARHGEF26 Products</a> )
Background:	Rho guanine nucleotide exchange factor 26 (SH3 domain-containing guanine exchange factor),FUNCTION: Activates RhoG GTPase by promoting the exchange of GDP by GTP. Required for the formation of membrane ruffles during macropinocytosis. Required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB, which induces cytoskeleton rearrangements and promotes bacterial entry. {ECO:0000269 PubMed:15133129, ECO:0000269 PubMed:17074883, ECO:0000269 PubMed:17875742}.
Molecular Weight:	97.3 kDa
UniProt:	<a href="#">Q96DR7</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:	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.

## Application Details

---

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

---

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)

## Images

---



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