Datasheet for ABIN3089058

ARHGEF11 Protein (AA 1-1522) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ARHGEF11
Protein Characteristics:	AA 1-1522
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF11 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSVRLPQSID RLSSLSSLGD SAPERKSPSH HRQPSDASET TGLVQRCVII QKDQHGFGFT VSGDRIVLVQ SVRPGGAAMK AGVKEGDRII KVNGTMVTNS SHLEVVKLIK SGAYVALTLL GSSPSSMGIS GLQQDPSPAG APRITSVIPS PPPPPPLPPP QRITGPKPLQ DPEVQKHATQ ILRNMLRQEE KELQDILPLY GDTSQRPSEG RLSLDSQEGD SGLDSGTERF PSLSESLMNR NSVLSDPGLD SPRTSPVIMA RVAQHHRRQG SDAAVPSTGD QGVDQSPKPL IIGPEEDYDP GYFNNESDII FQDLEKLKSR PAHLGVFLRY IFSQADPSPL LFYLCAEVYQ QASPKDSRSL GKDIWNIFLE KNAPLRVKIP EMLQAEIDSR LRNSEDARGV LCEAQEAAMP EIQEQIHDYR TKRTLGLGSL YGENDLLDLD GDPLRERQVA EKQLAALGDI LSKYEEDRSA PMDFALNTYM SHAGIRLREA RPSNTAEKAQ SAPDKDKWLP FFPKTKKSSN SKKEKDALED KKRNPILKYI GKPKSSSQST FHIPLSPVEV KPGNVRNIIQ HFENNQQYDA PEPGTQRLST GSFPEDLLES DSSRSEIRLG RSESLKGREE MKRSRKAENV PRSRSDVDMD AAAEATRLHQ SASSSTSSLS TRSLENPTPP FTPKMGRRSI ESPSLGFCTD TLLPHLLEDD LGQLSDLEPE PDAQNWQHTV

GKDVVAGLTQ REIDRQEVIN ELFVTEASHL RTLRVLDLIF YQRMKKENLM PREELARLFP NLPELIEIHN SWCEAMKKLR EEGPIIKEIS DLMLARFDGP AREELQQVAA QFCSYQSIAL ELIKTKQRKE SRFQLFMQEA ESHPQCRRLQ LRDLIISEMQ RLTKYPLLLE SIIKHTEGGT SEHEKLCRAR DQCREILKYV NEAVKQTENR HRLEGYQKRL DATALERASN PLAAEFKSLD LTTRKMIHEG PLTWRISKDK TLDLHVLLLE DLLVLLQKQD EKLLLKCHSK TAVGSSDSKQ TFSPVLKLNA VLIRSVATDK RAFFIICTSK LGPPQIYELV ALTSSDKNTW MELLEEAVRN ATRHPGAAPM PVHPPPPGPR EPAQQGPTPS RVELDDSDVF HGEPEPEELP GGTGSQQRVQ GKHQVLLEDP EQEGSAEEEE LGVLPCPSTS LDGENRGIRT RNPIHLAFPG PLFMEGLADS ALEDVENLRH LILWSLLPGH TMETQAAQEP EDDLTPTPSV ISVTSHPWDP GSPGQAPPGG EGDNTQLAGL EGERPEQEDM GLCSLEHLPP RTRNSGIWES PELDRNLAED ASSTEAAGGY KVVRKAEVAG SKVVPALPES GQSEPGPPEV EGGTKATGNC FYVSMPSGPP DSSTDHSEAP MSPPQPDSLP AGQTEPQPQL QGGNDDPRRP SRSPPSLALR DVGMIFHTIE QLTLKLNRLK DMELAHRELL KSLGGESSGG TTPVGSFHTE AARWTDGSLS PPAKEPLASD SRNSHELGPC PEDGSDAPLE DSTADAAASP GP

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.

Product 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!

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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 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. 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.
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)

Target Details

Target:	ARHGEF11
Alternative Name:	ARHGEF11 (ARHGEF11 Products)
Background:	Rho guanine nucleotide exchange factor 11 (PDZ-RhoGEF),FUNCTION: May play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13). Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase and may act as GTPase-activating protein (GAP) for GNA12 and GNA13. Involved in neurotrophin-induced neurite outgrowth. {ECO:0000269|PubMed:21670212}.
Molecular Weight:	167.7 kDa
UniProt:	O15085
Pathways:	Neurotrophin Signaling Pathway, Regulation of G-Protein Coupled Receptor Protein Signaling

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. 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)