

Datasheet for ABIN3094952

## Ras Protein-Specific Guanine Nucleotide-Releasing Factor 2 (RASGRF2) (AA 1-1237) protein (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Ras Protein-Specific Guanine Nucleotide-Releasing Factor 2 (RASGRF2)
Protein Characteristics:	AA 1-1237
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MQKSVRYNEG HALYLAFLAR KEGTKRGFLS KKTAEASRWH EKWFALYQNV LFYFEGEQSC</p> <p>RPAGMYLLEG CSCERTPAPP RAGAGQGGVR DALDKQYYFT VLFHHEGQKP LELRCEEEQD</p> <p>GKEWMEAIHQ ASYADILIER EVLMQKYIHL VQIVETEKIA ANQLRHQLED QDTEIERLKS</p> <p>EIALNKTKE RMRPYQSNQE DEDPDIKKIK KVQSFMRGWL CRRKWKTIVQ DYICSPHAES</p> <p>MRKRNQIVFT MVEAESEYVH QLYILVNGFL RPLRMAASSK KPPISHDDVS SIFLNSETIM</p> <p>FLHEIFHQGL KARIANWPTL ILADLFDILL PMLNIYQEFV RNHQYSLQVL ANCKQNRDFD</p> <p>KLLKQYEANP ACEGRMLET F LTYPMFQIPR YIITLHELLA HTPHEHVERK SLEFAKSKLE</p> <p>ELSRVMHDEV SDTENIRKNL AIERMIVEGC DILLDTSQTF IRQGS LIQVP SVERGKLSKV</p> <p>RLGSLSLKKE GERQCFLFTK HF LICTRSSG GKLHLLKTGG VLSLIDCTLI EEPDASDDDS</p> <p>KGSGQVFGHL DFKIVVEPPD AAFTVLLA PSRQEKA AWM SDISQCVDNI RCNGLMTIVF</p> <p>EENSKVTVPH MIKSDARLHK DDTDICFSKT LNSCKVPQIR YASVERLLER LTDLRFLSID</p>

FLNTFLHTYR IFTTAAVVLG KLSDIYKRPF TSIPVRSLEL FFATSQNNRG EHLVDGKSPR  
LCRKFSPPPP LAVSRTSSPV RARKLSLTSP LNSKIGALDL TTSSSPTTTT QSPAASPPPH  
TGQIPLDLR GLSSPEQSPG TVEENVNDNPR VDLCKNLKRS IQKAVLESAP ADRAGVESSP  
AADTTELSPC RSPSTPRHLR YRQPGGQTAD NAHCSVSPAS AFAIATAAAG HGSPPGFNNT  
ERTCDKEFII RRTATNRVLN VLRHWVSKHA QDFELNNELK MNVLNLEEVE LRDPDLLPQE  
RKAAANILRA LSQDDQDDIH LKLEDIIQMT DCMKAECFES LSAMELAEQI TLLDHVIFRS  
IPYEEFLGQG WMKLDKNERT PYIMKTSQHF NDMSNLVASQ IMNYADVSSR ANAIEKWVAV  
ADICRCLHNY NGVLEITSAL NRSAYRLKK TWAKVSKQTK ALMDKLQKTV SSEGRFKNLR  
ETLKNCNPPA VPYLGMYLTD LAFIEEGTPN FTEEGLVNFS KMRMISHIIR EIRQFQQTSY  
RIDHQPKVAQ YLLDKDLIID EDTLYELSLK IEPRLPA

**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!

## Product Details

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:	Ras Protein-Specific Guanine Nucleotide-Releasing Factor 2 (RASGRF2)
Alternative Name:	RASGRF2 ( <a href="#">RASGRF2 Products</a> )
Background:	Ras-specific guanine nucleotide-releasing factor 2 (Ras-GRF2) (Ras guanine nucleotide exchange factor 2),FUNCTION: Functions as a calcium-regulated nucleotide exchange factor activating both Ras and RAC1 through the exchange of bound GDP for GTP. Preferentially activates HRAS in vivo compared to RRAS based on their different types of prenylation. Functions in synaptic plasticity by contributing to the induction of long term potentiation. {ECO:0000269 PubMed:15128856}.
Molecular Weight:	140.8 kDa
UniProt:	<a href="#">O14827</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</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

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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 **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months