

Datasheet for ABIN7555281  
**GRF2 Protein (AA 1-1077) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GRF2 (RAPGEF1)
Protein Characteristics:	AA 1-1077
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRF2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat RAPGEF1 Protein expressed in mammalian cells.
Sequence:	MDTDSQRSHL SSFTMKLMDK FHSPKIKRTP SKKGKPAEVS VKIPEKPVNK EATDRFLPEG YPLPLDLEQQ AVEFMSTSAV ASRSQRQKNL SWLEEKEKEV VSALRYFKTI VDKMAIDKKV LEMLPGSASK VLEAILPLVQ NDPRIQHSSA LSSCYSRVYQ SLANLIRWSD QVMLEGVNSE DKEMVTTVKG VIKAVLDGVK ELVRLTIEKQ GRPSPTSPVK PSSPASKPDG PAELPLTDRE VEILNKTTGM SQSTELLPDA TDEEVAPPKP PLPGIRVVDN SPPPALPPKK RQSAPSPTRV AVVAPMSRAT SGSSLPVGIN RQDFDVDCYA QRRLSGGSHS YGGESPRLSP CSSIGKLSKS DEQLSSLRD SGQCSRNTSC ETLDHYPDY EFLQQDLSNA DQIPQQTAWN LSPLPESLGE SGSPFLGPPF QLPLGGHPQP DGPLAPGQQT DTPPALPEKK RRSAAQTAD GSGCRVSYER HPSQYDNISG EDLQSTAPIP SVPYAPFAAI LPFQHGGSSA PVEFVGDFTA PESTGDPEKP PPLPEKKNKH MLAYMQLLED YSEPPSMFY QTPQNEHIYQ QKNKLLMEVY GFSDSFSGVD SVQELAPPPA LPPKQRQLEP PAGKDGHPRD PSAVSGVPGK DSRDGSERAP KSPDALESAQ

SEEEVDELSL IDHNEIMSRLL TLKQEGDDGP DVRGGSGDIL LVHATETDRK DLVLYCEAFL  
TTYRTFISPE ELIKKLQYRY EKFSFPADTF KKRVSKNTEFF VLVRVDELCL LEVELTEEILK  
LLMELVFRLV CNGELSLARV LRSKILDKVD QKLLRCATS SQPLAARGVA ARPGTLHDFH  
SHEIAEQLTL LDAELFYKIE IPEVLLWAKE QNEEKSPNLT QFTEHFNNMS YWVRSIIMLQ  
EKAQDRERLL LKFIKIMKHL RKLNNFNSYL AILSALDSAP IRRLEWQKQT SEGLAEYCTL  
IDSSSSFRAY RAALSEVEPP CIPYLGLILQ DLTFVHLGNP DYIDGKVNFS KRWQQFNILD  
SMRCFQQAHY DMRRNDDIIN FFNDFSDHLA EEALWELSLK IKPRNITRRK TDREKKT **Sequence  
without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

GRF2 (RAPGEF1)

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### Alternative Name:

RAPGEF1 ([RAPGEF1 Products](#))

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### Background:

Rap guanine nucleotide exchange factor 1 (CRK SH3-binding GNRP) (Guanine nucleotide-releasing factor 2) (Protein C3G),FUNCTION: Guanine nucleotide-releasing protein that binds to SH3 domain of CRK and GRB2/ASH. Transduces signals from CRK to activate RAS. Involved in

## Target Details

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cell branching and adhesion mediated by BCAR1-CRK-RAPGEF1 signaling and activation of RAP1 (PubMed:12432078). Plays a role in the establishment of basal endothelial barrier function. Plays a role in nerve growth factor (NGF)-induced sustained activation of Rap1 and neurite outgrowth. {ECO:0000269|PubMed:12432078, ECO:0000269|PubMed:17724123, ECO:0000269|PubMed:21840392, ECO:0000269|PubMed:7806500}.

Molecular Weight: 120.5 kDa

UniProt: [Q13905](#)

Pathways: [Interferon-gamma Pathway](#), [Neurotrophin Signaling Pathway](#), [Platelet-derived growth Factor Receptor Signaling](#), [Signaling of Hepatocyte Growth Factor Receptor](#)

## Application Details

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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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months