

Datasheet for ABIN3094979

GRLF1 Protein (AA 1-1499) (Strep Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GRLF1
Protein Characteristics:	AA 1-1499
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRLF1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MMMARKQDVR IPTYNISVVG LSGTEKEKGQ CGIGKSCLCN RFVRPSADEF HLDHTSVLST SDFGGRVVNN DHFLYWGEVS RSLEDCVECK MHIVEQTEFI DDQTFQPHRS TALQPYIKRA AATKLASAEK LMYFCTDQLG LEQDFEQQM PDGKLLVDGF LLGIDVSRGM NRNFDDQLKF VSNLYNQLAK TKKPIVVLT KCDEGVERYI RDAHTFALSK KNLQVVETSA RSNVNVDLAF STLVQLIDKS RGKTKIIPYF EALKQQSQQI ATAKDKYEWL VSRIVKNHNE NWLSVSRKMQ ASPEYQDYVY LEGTQKAKKL FLQHIHRLKH EHIERRRKLY LAALPLAFEA LIPNLDEIDH LSCIKAKKLL ETKPEFLKWF VVLEETPWDA TSHIDNMENE RIPFDLMDTV PAEQLYEAHL EKLRNERKRV EMRRAFKENL ETSPFITPGK PWEEARSFIM NEDFYQWLEE SVYMDIYGKH QKQIIDKAKE EFQELLLEYS ELFYELELDA KPSKEKMGVI QDVLGEEQRF KALQKLQAER DALILKHIHF VYHPTKETCP SCPACVDAKI EHLISSRFIR PSDRNQKNSL SDPNIDRINL VILGKDGLAR ELANEIRALC TNDDKYVIDG KMYELSLRPI EGNVRLPVNS FQTPTFQPHG CLCLYNSKES LSYVVESIEK SRESTLGRRD NHLVHLPLTL ILVNRGDDTS GETLHSLIQQ
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GQQIASKLQC VFLDPASAGI GYGRNINEKQ ISQVLKGLLD SKRNLNLVSS TASIKDLADV
DLRIVMCLMC GDPFSADDIL FVLQSQTCCK SSHCGSNNSV LLELPIGLHK KRIELSVLSY
HSSFSIRKSR LVHGYIVFYS AKRKASLAML RAFLCEVQDI IPIQLVALTD GAVDVLNDNL
SREQLTEGEE IAQEIDGRFT SIPCSQPQHK LEIFHPFFKD VVEKKNIEA THMYDNAAEA
CSTTEEVFNS PRAGSPLCNS NLQDSEEDIE PSYSLFREDT SLPSLSKDHS KLSMELEGND
GLSFIMSNFE SKLNNKVPPP VKPKPPVHFE ITKGDLSYLD QGHRDGQRKS VSSSPWLPQD
GFDPSDYAEP MDAVVKPRNE EENIYSVPHD STQGKIITIR NINKAQSNNGS GNGSDSEMDT
SSLERGRKVS IVSKPVLYRT RCTRLGRFAS YRTSFSVGSD DELGPIRKKE EDQASQGYKG
DNAVIPYETD EDPRRRNLR SLRRNTKKPK PKPRPSITKA TWESNYFGVP LTTVVTPEKP
IPIFIERCIE YIEATGLSTE GIYRVSGNKS EMESLQRQFD QDHNLDLAEK DFTVNTVAGA
MKSFFSELPD PLVPYNMQID LVEAHKINDR EQKLHALKEV LKKFPKENHE VFKYVISHLN
KVSHNNKVNL MTSENLSICF WPTLMRPDFS TMDALTATRT YQTIELFIQ QCPFFFYNRP
ITEPPGARPS SPSAVASTVP FLTSTPVTSTQ PSPPQSPPT PQSPMQPLLP SQLQAEHTL

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

Product Details

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)
Grade:	Crystallography grade

Target Details

Target:	GRLF1
Alternative Name:	ARHGAP35 (GRLF1 Products)
Background:	Rho GTPase-activating protein 35 (Glucocorticoid receptor DNA-binding factor 1) (Glucocorticoid receptor repression factor 1) (GRF-1) (Rho GAP p190A) (p190-A),FUNCTION: Rho GTPase-activating protein (GAP) (PubMed:19673492, PubMed:28894085). Binds several acidic phospholipids which inhibits the Rho GAP activity to promote the Rac GAP activity (PubMed:19673492). This binding is inhibited by phosphorylation by PRKCA (PubMed:19673492). Involved in cell differentiation as well as cell adhesion and migration, plays an important role in retinal tissue morphogenesis, neural tube fusion, midline fusion of the cerebral hemispheres and mammary gland branching morphogenesis (By similarity).

Target Details

Transduces signals from p21-ras to the nucleus, acting via the ras GTPase-activating protein (GAP) (By similarity). Transduces SRC-dependent signals from cell-surface adhesion molecules, such as laminin, to promote neurite outgrowth. Regulates axon outgrowth, guidance and fasciculation (By similarity). Modulates Rho GTPase-dependent F-actin polymerization, organization and assembly, is involved in polarized cell migration and in the positive regulation of ciliogenesis and cilia elongation (By similarity). During mammary gland development, is required in both the epithelial and stromal compartments for ductal outgrowth (By similarity). Represses transcription of the glucocorticoid receptor by binding to the cis-acting regulatory sequence 5'-GAGAAAAGAACTGGAGAACTC-3', this function is however unclear and would need additional experimental evidences (PubMed:1894621). {ECO:0000250|UniProtKB:P81128, ECO:0000250|UniProtKB:Q91YM2, ECO:0000269|PubMed:1894621, ECO:0000269|PubMed:19673492, ECO:0000269|PubMed:28894085}.

Molecular Weight: 170.5 kDa

UniProt: [Q9NRY4](#)

Pathways: [Tube Formation](#)

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)

Images



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