Datasheet for ABIN3095113

RPGRIP1 Protein (AA 1-1286) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RPGRIP1
Protein Characteristics:	AA 1-1286
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPGRIP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSHLVDPTSG DLPVRDIDAI PLVLPASKGK NMKTQPPLSR MNREELEDSF FRLREDHMLV KELSWKQQDE IKRLRTTLLR LTAAGRDLRV AEEAAPLSET ARRGQKAGWR QRLSMHQRPQ MHRLQGHFHC VGPASPRRAQ PRVQVGHRQL HTAGAPVPEK PKRGPRDRLS YTAPPSFKEH ATNENRGEVA SKPSELVSGS NSIISFSSVI SMAKPIGLCM PNSAHIMASN TMQVEEPPKS PEKMWPKDEN FEQRSSLECA QKAAELRASI KEKVELIRLK KLLHERNASL VMTKAQLTEV QEAYETLLQK NQGILSAAHE ALLKQVNELR AELKEESKKA VSLKSQLEDV SILQMTLKEF QERVEDLEKE RKLLNDNYDK LLESMLDSSD SSSQPHWSNE LIAEQLQQQV SQLQDQLDAE LEDKRKVLLE LSREKAQNED LKLEVTNILQ KHKQEVELLQ NAATISQPPD RQSEPATHPA VLQENTQIEP SEPKNQEEKK LSQVLNELQV SHAETTLELE KTRDMLILQR KINVCYQEEL EAMMTKADND NRDHKEKLER LTRLLDLKNN RIKQLEGILR SHDLPTSEQL KDVAYGTRPL SLCLETLPAH GDEDKVDISL LHQGENLFEL HIHQAFLTSA ALAQAGDTQP TTFCTYSFYD

FETHCTPLSV GPQPLYDFTS QYVMETDSLF LHYLQEASAR LDIHQAMASE HSTLAAGWIC FDRVLETVEK VHGLATLIGA GGEEFGVLEY WMRLRFPIKP SLQACNKRKK AQVYLSTDVL GGRKAQEEEF RSESWEPQNE LWIEITKCCG LRSRWLGTQP SPYAVYRFFT FSDHDTAIIP ASNNPYFRDQ ARFPVLVTSD LDHYLRREAL SIHVFDDEDL EPGSYLGRAR VPLLPLAKNE SIKGDFNLTD PAEKPNGSIQ VQLDWKFPYI PPESFLKPEA QTKGKDTKDS SKISSEEEKA SFPSQDQMAS PEVPIEAGQY RSKRKPPHGG ERKEKEHQVV SYSRRKHGKR IGVQGKNRME YLSLNILNGN TPEQVNYTEW KFSETNSFIG DGFKNQHEEE EMTLSHSALK QKEPLHPVND KESSEQGSEV SEAQTTDSDD VIVPPMSQKY PKADSEKMCI EIVSLAFYPE AEVMSDENIK QVYVEYKFYD LPLSETETPV SLRKPRAGEE IHFHFSKVID LDPQEQQGRR RFLFDMLNGQ DPDQGHLKFT VVSDPLDEEK KECEEVGYAY LQLWQILESG RDILEQELDI VSPEDLATPI GRLKVSLQAA AVLHAIYKEM TEDLFS

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 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 -

Product Details

	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 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:	RPGRIP1
Alternative Name:	RPGRIP1 (RPGRIP1 Products)
Background:	X-linked retinitis pigmentosa GTPase regulator-interacting protein 1 (RPGR-interacting protein 1),FUNCTION: May function as scaffolding protein. Required for normal location of RPGR at the connecting cilium of photoreceptor cells. Required for normal disk morphogenesis and disk organization in the outer segment of photoreceptor cells and for survival of photoreceptor cells. {ECO:0000250|UniProtKB:Q9EPQ2, ECO:0000305|PubMed:10958648}.
Molecular Weight:	146.7 kDa
UniProt:	Q96KN7

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

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