

Datasheet for ABIN3092708

## RPGRIP1L Protein (AA 1-1315) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	RPGRIP1L
Protein Characteristics:	AA 1-1315
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPGRIP1L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MSGPTDETAG DLPVKDTGLN LFGMGGLQET STTRTMKSRQ AVSRVSREEL EDRFLRLHDE</p> <p>NILLKQHARK QEDKIKRMAT KLIRLVNDKK RYERVGGGPK RLGRDVEMEE MIEQLQEKVH</p> <p>ELEKQNETLK NRLISAKQQL QTQGYRQTPY NNVQSRINTG RRKANENAGL QECPRKGIKF</p> <p>QDADVAETPH PMFTKYGNSL LEEARGEIRN LENVIQSQRG QIEELEHLAE ILKTQLRRKE</p> <p>NEIELSLLQL REQQATDQRS NIRDNVEMIK LHKQLVEKSN ALSAMEGKFI QLQEKQRTLRL</p> <p>ISHDALMANG DELNMQLKEQ RLKCCSLEKQ LHSMKFSERR IEELQDRIND LEKERELLKE</p> <p>NYDKLYDSAF SAAHEEQWKL KEQQLKVQIA QLETALKSDL TDKTEILDRL KTERDQNEKL</p> <p>VQENRELQLQ YLEQKQQLDE LKKRIKLYNQ ENDINADELS EALLLIKAQK EQKNGDLSFL</p> <p>VKVDSEINKD LERSMRELQA THAETVQELE KTRNMLIMQH KINKDYQMEV EAVTRKMENL</p> <p>QQDYELKVEQ YVHLLDIRAA RIHKLEAQLK DIAYGTKQYK FKPEIMPDDS VDEFDETIHL</p> <p>ERGENLFEIH INKVTFSSEV LQASGDKEPV TFCTYAFYDF ELQTPPVVRG LHPEYNFTSQ</p>

YLVHVNDLFL QYIQKNTITL EVHQAYSTEY ETIAACQLKF HEILEKSGRI FCTASLIGTK  
GDIPNFGTVE YWFLRVPMQD QAIRLYRERA KALGYITSNF KGPEHMQSLQ QQAPKTAQLS  
STDSTDGNLN ELHITIRCCN HLQSRASHLQ PHPYVVYKFF DFADHDTAIL PSSNDPQFDD  
HMYFPVPMNM DLDRLKSES LSFYVFDDSD TQENIYIGKV NVPLISLAHD RCISGIFELT  
DHQKHPAGTI HVILKWKFAI LPPSGSITTE DLGNFIRSEE PEVVQRLPPA SSVSTLV LAP  
RPKPRQRLTP VDKKVSFVDI MPHQSDETSP PPEDRKEISP EVEHIPEIEI NMLTVPHVPK  
VSQEGSVDEV KENTKMQQG KDDVSLLESEG QLAEQSLASS EDETEITDL EPEVEEDMSA  
SDSDDCIIPG PISKNIQSL ALSPGLGCSS AISAHCNFR L PGSSDFPASA SQVDGITGAC  
HHTQPSEKIR IEIALLSLND SQVTMDDTIQ RLFVECRFYS LPAEETPVSL PKPKSGQWVY  
YNYSNVIYVD KENNAKARDI LKAILQKQEM PNRSLRFTVV SDPPEDEQDL ECEDIGVAHV  
DLADMFEQGR DLIEQNIDVF DARADGEGIG KLRVTVEALH ALQSVYKQYR DDLEA

**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 -

## 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:	RPGRIP1L
Alternative Name:	RPGRIP1L ( <a href="#">RPGRIP1L Products</a> )
Background:	Protein fantom (Nephrocystin-8) (RPGR-interacting protein 1-like protein) (RPGRIP1-like protein),FUNCTION: Negatively regulates signaling through the G-protein coupled thromboxane A2 receptor (TBXA2R) (PubMed:19464661). May be involved in mechanisms like programmed cell death, craniofacial development, patterning of the limbs, and formation of the left-right axis (By similarity). Involved in the organization of apical junctions, the function is proposed to implicate a NPHP1-4-8 module. Does not seem to be strictly required for ciliogenesis (PubMed:19464661). Involved in establishment of planar cell polarity such as in cochlear sensory epithelium and is proposed to implicate stabilization of disheveled proteins (By similarity). Involved in regulation of proteasomal activity at the primary cilium probably implicating association with PSDM2 (By similarity). {ECO:0000250 UniProtKB:Q8CG73, ECO:0000269 PubMed:19464661}.
Molecular Weight:	151.2 kDa
UniProt:	<a href="#">Q68CZ1</a>
Pathways:	<a href="#">DNA Replication</a> , <a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a> , <a href="#">Synthesis of DNA</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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## Application Details

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as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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### Comment:

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### Restrictions:

For Research Use only

## Handling

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### Format:

Liquid

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### 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.**

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### Handling Advice:

Avoid repeated freeze-thaw cycles.

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### Storage:

-80 °C

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### Storage Comment:

Store at -80°C.

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### Expiry Date:

12 months