

Datasheet for ABIN3137165

RPGRIP1 Protein (AA 1-1331) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	RPGRIP1
Protein Characteristics:	AA 1-1331
Origin:	Mouse
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:	<p>MQHLLEYMPE DLPVRDTS PLLKGTSGKN VRAQPHLGRM NQKELNCRRL HLHEEPTLVK</p> <p>EPSPKQRDKN RRRRTNVQRS TTTQPDRLTL AVLQEPERRR RPWVSASPSP SAPPRAPVPG</p> <p>RKAHVQRLCP STAVGSAQPR VHAGRRLPHI AGPNDRSHT APPAFKDYVA DKNTRIEITR</p> <p>EPSQLTHTMT TDSTHVEEIP RSPEKTSKVE KPEQRSSEEC TQKAAELRAS IKENVELIRL</p> <p>KKLLQERNTS LAATEAQLTR VQEAYEDLLQ KNQGILDTAH NAFLSQVNEL KAEELSEESKK</p> <p>AVSLRTQLGD VSILQITLKE FQVRVEDLEK ERKLLSDSYD RLLNMLDSS HQPLDSSHQP</p> <p>HWSTELTGKQ LPPQVCPLLD QMGTALEETK VFRQATNKAA QDGKLFQDT DILYQHEQEE</p> <p>ESLQSTATVA SSPEELCELA AQPTLLPQTD QRESSEPKAQ DENDLSQVLS ELQVSHAETT</p> <p>LELEKTRDML LLQRKINMCY QEELEATLTK ADRENDRHEE KLERLNHLLD FKNSRIKQLE</p> <p>GILRSHGLPT SEQLKDVAYG TLPPSLCLEP LAAHRGDDEV DMSLLHPSEN LFELHVHQAF</p> <p>LTPAALTQAG DTQPTTFCTY SFYDFETHCT PLSTGPQPLY DFTSQYVVQA DYLLHLYLQG</p>

TSVRLDLHQA MASEYHVLAT GWISLDKVLG TVERVHGLAT LAGAGGEDLG VLEYWMRLCL
PLKPSLQACN KRKKAQAYLS VSVLGARKVQ SNESRSETWA PQNELRVEIT RCCGLRSRRL
GRQPSYVVMY RFFTFPDHDT IIPASSNPY FKDQALFPVL VTSDLDQYLR REALSVYVFD
DEDPEPGSYL GRAQVPLLPL AQNKSIGDF NLTDSGEKSNS GSIKVQLDWK SHYLAPEGFQ
MSEAEKPEGE EKEEEGGEEE VKEEVEEEEE EEEEEEEVK EEEEEEEEE REEEEEKEEE
KEEEEEDEK EEEEEEEEE EEEEEEDENKD VLEASFTEEW VPFFSQDQIA STEIPIEAGQ
YPEKRKPPVI AEKKEREHV ASYSRRKHSK KPGVQDKNRM EYLSCNINLG NTQQMHYTEW
KFSGLKKAED GGLKAQDKRE EPPSPRSALR QEHPSHPRNA FSLADQESCE QASEVSETQT
TSDDDIIVTP QAQTVPKADS EKMCIIVSL AFCPEADVMS DETIQQVYVE YKFCDLPLSE
TETPMSLRKP RAGEEIHFFH SKVIDLDPVE HQSRRQFLFA MLHAQDSDEG RFKFTVVSDF
LDEEKKECQD IGYAYLELWQ IFQSGKDILE QELEIVSPRN QAIQIGRLKV SLQAAAALHG
YKEMTEDLF S

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

Product Details

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 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:0000269 PubMed:12651948}.
Molecular Weight:	152.0 kDa
UniProt:	Q9EPQ2

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 <i>Nicotiana tabacum</i> 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

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. 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