

Datasheet for ABIN3135618

PLEKHG5 Protein (AA 1-1073) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	PLEKHG5
Protein Characteristics:	AA 1-1073
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHG5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MGTGPGVSGR RAAARPSSEL PSPDSQLLWV GGHAHSSDSQ VCHHADCCQL HHRGPLNLCE</p> <p>TCDSKFHSTL HYDGHVRFDL PPQGSVLARN VSTRSCPPRT SPAADLEEEE EGCTDGKGDR</p> <p>KSAGLKISKK KARRRHTDDP SKECFTLKFD LNVDIETEIV PAMKKKSLGE VLLPVFERKG</p> <p>IALGKVDIYL DQSNTPLSLT FEAYRFGGHY LRVKAKPGDE GKVEQGVKDS KSLSLPALRP</p> <p>SGAGPPVSER VDPQSRRESS LDILAPGRRR KNMSEFLGEA GIPGHEPPAP SSCSLPVGSS</p> <p>GGTSSGINES WKNRAASRFS GFFSSSPSTS AFSREVDKME QLESKLHAYS LFGLPRMPRR</p> <p>LRFDHDSWEE EEEDDEEDEE SSGLRLEDSEW RELTDGHEKL TRRQCHQQA VWELLHTEVS</p> <p>YIRKLRVITN LFLCCLLNQ ESGLLCEVEA ERLFSNIPEI AKLHRGLWGS VMVPVLEKAR</p> <p>RTRALLQPSD FLKGFKMFGS LFKPYIRYCM EEEGCMEMYR GLLRDNDLFR AYYTWAKEHQ</p> <p>QCQRLKLSDM LAKPHQRLTK YPLLLKSVLR KTDDPRTKEA IVTMISSVER FIIHVNTCMR</p> <p>QRQERQRLAG VVSRIDAYEV VEGSNDEVVK LLKEFLHLDL TAPMPGTSPE ETRQLLLEGS</p>

LRMKEGKDSK MDVYCFLFTD LLLVTKAVKK AERTKVIRPP LLVDKIVCRE LRDPGSFLLI
YLNEFHSAVG AYTFQASSQA LCRSWVDTIY NAQNQLQQLR AQLSAQEHGP SQHLQSLEEE
EDEQEEEGEE SGTSAASSPT ILRKSSNSLD SEHCTSDGST ETLAMVVVEP GATLSSPEFE
GGPVSSQSDE SSSLNTASSV TPTSELLPLG PVDGRSCSMD SAYGTLSPTS LQDFVAPHPV
VEPAPVPQTP SPQPSPRLRR RTPVQLLRP PRLLKSKSEA SLLQLLSGTP AARGVPPAPS
RSLSELCLIS VAPGVRTQRP LQEGGPGWNG PGMCDPCHGP QLSESENRRPS HMTGGPADSA
RRRCREMPSG TMSRVQSEPP SGVSAQHRKL TLAQLYRIRT TLLNSTLTA SEV

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 - 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.

Product Details

- 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: PLEKHG5

Alternative Name: Plekhg5 ([PLEKHG5 Products](#))

Background: Pleckstrin homology domain-containing family G member 5 (PH domain-containing family G member 5) (Synectin-binding RhoA exchange factor) (SYX), FUNCTION: Functions as a guanine exchange factor (GEF) for RAB26 and thus regulates autophagy of synaptic vesicles in axon terminal of motoneurons (PubMed:29084947). Involved in the control of neuronal cell differentiation. Plays a role in angiogenesis through regulation of endothelial cells chemotaxis (PubMed:21543326). Affects also the migration, adhesion, and matrix/bone degradation in macrophages and osteoclasts (By similarity). {ECO:0000250|UniProtKB:O94827, ECO:0000269|PubMed:21543326, ECO:0000269|PubMed:29084947}.

Molecular Weight: 118.9 kDa

UniProt: [Q66T02](#)

Pathways: [Neurotrophin Signaling Pathway](#)

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

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