

Datasheet for ABIN3094581

PLEKHG2 Protein (AA 1-1386) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	PLEKHG2
Protein Characteristics:	AA 1-1386
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHG2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MPEGAQGLSL SKPSPSLGCG RRGEVCD CGT VCETRTAPAA PTMASPRGSG SSTSLSTVGS</p> <p>EGDPAPGPTP ACSASRPEPL PGPPIRLHLS PVGIPGSARP SRLERVAREI VETERAYVRD</p> <p>LRSIVEDYLG PLLDGGVLGL SVEQVGT LFA NIEDIYEFSS ELLEDLENS SAGGIAECFV</p> <p>QRSEDFDIYT LYCMNYPSSL ALLRELSLSP PAALWLQERQ AQLRHSLPLQ SFLLKPVQRI</p> <p>LKYHLLLQEL GKHWAEGPGT GGREMVEEAI VSMTAVAWYI NDMKRKQEHA ARLQEVQRRL</p> <p>GGWTGPELSA FGELVLEGAF RGGGGGGPRL RGGERLLFLF SRMLLVAKRR GLEYTYKGHI</p> <p>FCCNLSVSES PRDPLGFKVS DLTIPKHRHL LQAKNQEEKR LWIHCLQRLF FENHPASIPA</p> <p>KAKQVLLENS LHCAPKSKPV LEPLTPPLGS PRPRDARSFT PGRNTAPSP GPSVIRRGRR</p> <p>QSEPVKDPYV MFPQNAKPGF KHAGSEGELY PPESQPPVSG SAPPEDLEDA GPPTLDPSGT</p> <p>SITEEILELL NQRGLRDPGP STHDIPKFPD DSQVPGDSET LTFQALPSRD SEEEEEEEE</p> <p>GLEMDERGPS PLHVLEGLES SIAAEMPSIP CLTKIPDVPN LPEIPSRCEI PEGSRLPSLS</p>

DISDVFEMPC LPAIPSVPNT PSLSSTPTLS CDSWLQGPLQ EPAEAPATRR ELFSGSNPGK
LGEPPSGGKA GPEEDEEGVS FTDFQPQDVT QHQGFPELA FRSCSEIRSA WQALEQGQLA
RPGFPEPLLI LEDSDLGGDS GSGKAGAPSS ERTASRVREL ARLYSERIQQ MQRAETRASA
NAPRRRPRVL AQPQPSPCLP QEQAEPGLLP AFGHVLVCEL AFPLTCAQES VPLGPAVWVQ
AAIPLSKQGG SPDGQGLHVS NLPKQDLPGI HVSAATLLPE QGGSRHVQAP AATPLPKQEG
PLHLQVPALT TFSDQGHPEI QVPATTPLPE HRSHMVIPAP STAFCEQGH CADIHVPTTP
ALPKEICSDF TVSVTTPVPK QEGHLDSESP TNIPLTKQGG SRDVQGPDPV CSQPIQPLSW
HGSSLDPQGP GDTLPPLPCH LPDLQIPGTS PLPAHGSHLD HRIPANAPLS LSQELPDTQV
PATTPLPLPQ VLTDIWWQAL PTSPKQGS LP DIQGPA AAPP LPEPSLTD TQ VQKLTPSLEQ
KSLIDAHVPA ATPLPERGGS LDIQGLSPTP VQTTMVLSKP GGS LASHVAR LESSDLTPPH
SPPSSRQLL GPNAALSRY LAASYISQSL ARRQGP GGGA PAASRGSWSS APTSRASSPP
PQPQPPPPPA RRLSYATTVN IHVGGGGRLR PAKAQVRLNH PALLASTQES MGLHRAQGAP
DAPFHM

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

Product Details

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 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:	PLEKHG2
Alternative Name:	PLEKHG2 (PLEKHG2 Products)
Background:	Pleckstrin homology domain-containing family G member 2 (PH domain-containing family G member 2),FUNCTION: May be a transforming oncogene with exchange activity for CDC42 (By similarity). May be a guanine-nucleotide exchange factor (GEF) for RAC1 and CDC42. Activated by the binding to subunits beta and gamma of the heterotrimeric guanine nucleotide-binding protein (G protein) (PubMed:18045877). Involved in the regulation of actin polymerization (PubMed:26573021). {ECO:0000250 UniProtKB:Q6KAU7, ECO:0000269 PubMed:18045877, ECO:0000269 PubMed:26573021}.
Molecular Weight:	148.0 kDa
UniProt:	Q9H7P9

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.
--------------------	--

Application Details

Comment:	<p>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.</p> <p>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!</p>
----------	--

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months