

Datasheet for ABIN3135148

PLEKHG3 Protein (AA 1-1341) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PLEKHG3
Protein Characteristics:	AA 1-1341
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHG3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPVSTALHQD GSQERPRSLV STSSSGSSR DSHSAMEEPT GSEASQNGT GSPWDRHVPN SNNNSSGWLN MKGPLSPFNG RAGTSPAYHK LSYLGRVVRE IVETERMYVQ DLRSIVEDYL LKIIDTPGLL KPEQVSALFG NIESIYALNS QLLRDLDSCN SDPVAVASCF VERSQEFDIY TQYCNNYPNS VAALTECMQD KQQAFFRDR QELLQHSLPL GSYLLKPVQR VLKYHLLLQE IAKHFDEEED GFEVVEDAID TMTCAWYIN DMKRRHEHAV RLQEIQSLLI NWKGPDLTYY GELVLEATFR VHRVRNDRTF FLFDKILLIT KKRGDHFVYK GHIPCSSLML IESTRDSLCE TVTHYKHSKQ QYSIAKTVE EKRSWTHHIK RLILENHHAT IPQAKEAIL EMDSYYPSTRY RCSPERMKKA WSSQDEVSSH VRQGRRQSEP GHTLFSRATL PSRQQGFEMP GLKGRRKSEP TRHLLRQLSE KARAVGMKHA GSAGALLDFG QPAHAQKQP EAERAAREEL EEEEELVEEE EQRQQSFSGS LEGLAGHDGS EKVPGPPELPG SEEEEEEEEES LAVAEQKGRH RESEGSKGCR RPSNRSPTSA EKRMFSFESVS SLPEVETDPE PGAEQEAFAA LEGPSTEEMP SDPEFPEALE

TQLHAPKGLL GVDNPAAVVD FVEPEGSEDL KPLSSEEEEE EEMEAQPE SLLPPSVLDQ
ASVIAERFAS SFSRRSSLAI EDGKSSGLGT PRLISRSSSV LSLEGSDKGL ARWSSIGDSL
SNPPTPEVII GADMVTDNGP SVNGTESPSA GSGCPTQDR SSCKKKESAL STRDRQLLDK
IKNYYENAEH HDAGFSIRRR ELSYIPKGL VRSSVSRFNS LPKPDSEPA PVGYKRPSS
RPASWTLFDL PGPRTDKGDP APITDAEFCP SSEIAKIWER MESSERSPRT GSGQSQANGF
ELQEPLFILE EHELGAITEE SAVASPESAS PTEQPSPAHL ARELKELVKE LSSSVQGELV
TPLHPRIVQL SHVMDSHVSE RVKNKVYQLA RQYSLRIKNI KAARPPQWE KVTPDQEEQV
PSISGLPEEA GELSGGKARR KPVLSLLSYE QLVAQEHGTS KSSAAVETSP RRFSFSPSAV
SPRTTSPGAR SSARSPLSPF DTETFNWPDV RELCSKYTSH DKTAQVESSW PRSLLVNRSR
SLPENIVEPP MSGKADRCCG LNTHRRRLGDG EASQPPLPES PPQSQLNGGD ALYVTADLTL
ENNQRVIIME KGPHPSSTVG LEEDSGKESS SPVALKGQGQ GFQASAEYQP KEHGPRDSAD
TNKQGRVRNL REKFQALNSV G

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:	PLEKHG3
Alternative Name:	Plekhg3 (PLEKHG3 Products)
Background:	Pleckstrin homology domain-containing family G member 3 (PH domain-containing family G member 3),FUNCTION: Plays a role in controlling cell polarity and cell motility by selectively binding newly polymerized actin and activating RAC1 and CDC42 to enhance local actin polymerization. {ECO:0000250 UniProtKB:A1L390}.
Molecular Weight:	148.5 kDa
UniProt:	Q4VAC9

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. 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