

Datasheet for ABIN3134961

## HMHA1 Protein (AA 1-1116) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	HMHA1
Protein Characteristics:	AA 1-1116
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMHA1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MFSRKKRELM KTPSISKKNR AGSPNPQSSS GELPRKDWTE APGLEPPATS LSTVAKGTGT</p> <p>LKRPTSLSRH ASAAGFPLSG TATWTLVRGY RSPLSAASPA ELPTEGAFFPD GVEDISTLLA</p> <p>DVARFAEGLE KLKECVLQDD LLEARPLAH ECLGEALRVM RQVISRYPLL NTVETLTAAG</p> <p>TLIAKVKAFFH YECNNESDKR EFKALETIA VSFCTVSEF LLGEVDSSTL LAVPPGDPSQ</p> <p>SMENLYGAGT EGPPHNVEEC EEGCLPPEEV DMLLRQCEGG VDAALQYAKD MARYMKDLIS</p> <p>YLEKRTTLEM EFAKGLQKVH HNCRQSVTHE PHMPLLSIYS LALEQDLEFG HGMVQAAGTL</p> <p>QTQTFMQPLT LRRLEHERRR KEIKESWHRA QRKLQEAEN LRKAKQGYKQ RCEDHDKARL</p> <p>QVAKAEQQ GTGPGAGTAA SKALDKRRRL EEEAKNKAEE AMATYRTCVA DAKTQKQELE</p> <p>DTKVTALRQI QEVIRQSDQT IKSATISYYQ LMHMQTAPLP VNFQMLCESS KLYDPGQQA</p> <p>SHVRQLQRGE EPDVRDYDFEP YVSNNSWSP MRTRKGSFNP GDASGPEAAG SPPEEGGTSE</p> <p>AAPNKDHRGG RGHQVHKSWP ISISDTEVGL DTSSGDLKKF DRTSSSGTMS SSEELGDQEA</p>

GLVASAFDSA DLNGMDPELP VAMPSGPFRH VGLSKAARTH RLRKLRTPAK CRECNSYVYF  
QGAEECECCL ACHKKCLET L AIQCGHKKLQ GRLQLFGQDF SQAALSTPDG VPFIVKKKVC  
EIERRALHTK GIYRVNGVKT RVEKLCQAFE NGKELVELSQ ASPHDISNVL KLYLRQLPEP  
LISFRFYHEL VGLAKDSLKA EAEAKAASRG RQGGSESEAA TLAMVGRLRE LMQDLPAENR  
ATLLYLLKHL RRIVEME QDN KMTPGNLGIV FGPTLLRPRP TDATVSLSSL VDYPHQARVI  
ETLIVHYGLV FEEEP EEAPG SQEGASTQCG QLESAEGIVF PLQEEAEDGS RESHAASNDS  
DSELEDASDP LSSSDASALH RLSFLEQTEA GLEEGPQSHS GSEEQLEGED GAPGPWLCHF  
NTNQSNTSR APLPTMRLRG GQITGGTSQE RQPQFV

**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 - all that's needed is the DNA that codes for the desired protein!

#### Concentration:

## Product Details

- 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: HMHA1

Alternative Name: Arhgap45 ([HMHA1 Products](#))

Background: Rho GTPase-activating protein 45 (Minor histocompatibility protein HA-1),FUNCTION: Contains a GTPase activator for the Rho-type GTPases (RhoGAP) domain that would be able to negatively regulate the actin cytoskeleton as well as cell spreading. However, also contains N-terminally a BAR-domain which is able to play an autoinhibitory effect on this RhoGAP activity. {ECO:0000250|UniProtKB:Q92619}.

Molecular Weight: 122.9 kDa

UniProt: [Q3TBD2](#)

## 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.

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## 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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months