

Datasheet for ABIN3088844

## AHI1 Protein (AA 1-1196) (Strep Tag)

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### Overview

Quantity:	1 mg
Target:	AHI1
Protein Characteristics:	AA 1-1196
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This AHI1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence:	MPTAESEAKV KTKVRFEELL KTHSDLMREK KKLKKKLVRS EENISPDTIR SNLHYMKETT SDDPDТИRSN LPHIKETTS DVSANTNNL KKSTRVTKNK LRNTQLATEN PNGDASVEED KQGKPNKKVI KTPQLTTQD LKPETPENKV DSTHQKTHTK PQPGVDHQKS EKANEGREET DLEEDEELMQ AYQCHVTEEM AKEIKRKIRK KLKEQLTYFP SDTLFHDDKL SSEKRKKKKE VPVFSKAETS TLTISGDTVE GEQKKESSVR SVSSDSHQDD EISSLMEQSTE DSMQDDTKPK PKKTKKKTKA VADNNNEDVDG DGVHEITSRD SPVYPKCLLD DDLVLGVYIH RTDRLKSDFM ISHPMVKIHV VDEHTGQYVK KDDSGRPVSS YYEKENVDYI LPIMTQPYDF KQLKSRLPEW EEQIVFNENF PYLLRGSDES PKVILFFEIL DFLSVDEIKN NSEVQNQECG FRKIAWAFLK LLGANGNANI NSKLRQLYY PPTKPRSPLS VVEAFEWWSK CPRNHYPSTL YVTVRGLKVP DCIKPSYRSM MALQEEKGKP VHCERHHESS SVDTEPGLEE SKEVIKWKRL PGQACRIPNK HLFSLNAGER GCFCLDFSHN GRILAAACAS RDGYPIILYE IPSGRFMREL CGHLSNIIYDL SWSKDDHYIL TSSSDGTARI WKNEINNTNT FRVLPHPSFV YTAKFHPAVR ELVVTGCYDS
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## Product Details

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MIRIWKVEMR EDSAILVRQF DVHKSFINS CFDTEGHMY SGDCTGVIVV WNTYVKINDL  
EHSVHHWTIN KEIKETEFKG IPISYLEIHP NGKRLLIHTK DSTLRIMDLR ILVARKFVGA  
ANYREKIHST LTPCGTFLFA GSEDGIVYWW NPETGEQVAM YSDLPFKSPI RDISYHPFEN  
MVAFCAFGQN EPILLYIYDF HVAQQEAEMF KRYNQTFPLP GIHQSQDALC TCPKLPHQGS  
FQIDEFVHTE SSSTKMQLVK QRLETVTEVI RSCAAKVKN LSFTSPPAVS SQQSKLKQSN  
MLTAQEILHQ FGFTQTGIIS IERKPCNHQV DTAPTVVALY DYTANRSDEL TIHRGDIIRV  
FFKDNDWWY GSIGKGQEGY FPANHVASET LYQELPPEIK ERSPLSPEE KTKIEKSPAP  
QKQSINKNKS QDFRLGSESM THSEMRKEQS HEDQGHIMDT RMRKNKQAGR KVTLIE

**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:

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## Product Details

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- 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.

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Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

## Target Details

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Target: AHI1

Alternative Name: AHI1 ([AHI1 Products](#))

Background: Jouberin (Abelson helper integration site 1 protein homolog) (AHI-1), FUNCTION: Involved in vesicle trafficking and required for ciliogenesis, formation of primary non-motile cilium, and recruitment of RAB8A to the basal body of primary cilium. Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Involved in neuronal differentiation. As a positive modulator of classical Wnt signaling, may play a crucial role in ciliary signaling during cerebellum embryonic development  
(PubMed:21623382). {ECO:0000250|UniProtKB:Q8K3E5, ECO:0000269|PubMed:21623382}

Molecular Weight: 137.1 kDa

UniProt: [Q8N157](#)

## Application Details

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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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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)