

Datasheet for ABIN3096285

## USH1C Protein (AA 1-552) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	USH1C
Protein Characteristics:	AA 1-552
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USH1C protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDRKVAREFR HKVDFLIEND AEKDYLYDVL RMYHQTMDVA VLVGDLKLVI NEPSRLPLFD</p> <p>AIRPLIPLKH QVEYDQLTPR RSRKLKEVRL DRLHPEGLGL SVRGGLEFGC GLFISHLIKG</p> <p>GQADSVGLQV GDEIVRINGY SISSCTHEEV INLIRTKKTV SIKVRHIGLI PVKSSPDEPL</p> <p>TWQYVDQFVS ESGGVRGSLG SPGNRENKEK KVFISLVGSR GLGCSISSGP IQKPGIFISH</p> <p>VKPGSLSAEV GLEIGDQIVE VNGVDFSND HKEAVNVLKS SRSLTISIVA AAGRELFMTD</p> <p>RERLAEARQR ELQRQELLMQ KRLAMESNKI LQEQQEMERQ RRKEIAQKAA EENERYRKEM</p> <p>EQIVEEEEEKF KKQWEEDWGS KEQLLLPKTI TAEVHPVPLR KPKYDQGVPEL ELEPADDLDG</p> <p>GTEEQGEQDF RKYEEGFDPY SMFTPEQIMG KDVRLRLRIKK EGSLDLALEG GVDSPIGKVV</p> <p>VSAVYERGAA ERHGGIVKGD EIMAINGKIV TDYTLAEAEA ALQKAWNQQG DWIDLVVAVC</p> <p>PPKEYDDELT FF</p>

**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:

- 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®).

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### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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### Grade:

custom-made

## Target Details

Target:	USH1C
Alternative Name:	USH1C ( <a href="#">USH1C Products</a> )
Background:	<p>Harmonin (Antigen NY-CO-38/NY-CO-37) (Autoimmune enteropathy-related antigen AIE-75) (Protein PDZ-73) (Renal carcinoma antigen NY-REN-3) (Usher syndrome type-1C protein),FUNCTION: Anchoring/scaffolding protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal development and maintenance of cochlear hair cell bundles (By similarity). As part of the intermicrovillar adhesion complex/IMAC plays a role in brush border differentiation, controlling microvilli organization and length. Probably plays a central regulatory role in the assembly of the complex, recruiting CDHR2, CDHR5 and MYO7B to the microvilli tips (PubMed:24725409, PubMed:26812018). {ECO:0000250 UniProtKB:Q9ES64, ECO:0000269 PubMed:24725409, ECO:0000269 PubMed:26812018}.</p>
Molecular Weight:	62.2 kDa
UniProt:	<a href="#">Q9Y6N9</a>
Pathways:	<a href="#">Sensory Perception of Sound</a>

## 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:	<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

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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