

Datasheet for ABIN7544996  
**USH1G Protein (AA 1-461) (His tag)**



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## Overview

Quantity:	1 mg
Target:	USH1G
Protein Characteristics:	AA 1-461
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USH1G protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat USH1G Protein expressed in mammalien cells.
Sequence:	<p>MNDQYHRAAR DGYLELLKEA TRKELNAPDE DGMTPTLWAA YHGNLESLRL IVSRGGDPDK CDIWGNTPLH LAASNGHLHC LSFLVSFGAN IWCLDNDYHT PLDMAAMKGGH MECVRYLDSI AAQSSLNPK LVGKLDKAF REAERRIREC AKLQRRHHER MERRYRELA ERSDTLSFSS LTSSLSRRL QHLALGSHLP YSQATLHGTA RGKTKMQKKL ERRKQGGEGT FKVSEDGRKS ARSLGSLQLG SDVMFVRQGT YANPKEWGRA PLRDMFLSDE DSVSRATLAA EPAHSEVSTD SGHDSLFRTP GLGTMVFRRN YLSSGLHGLG REDGGLDGVG APRGRLQSSP SLDDDSLGSA NSLQDRSCGE ELPWDELDLG LDEDLEPETS PLETFLASLH MEDFAALLRQ EKIDLEALML CSDLDLRSIS VPLGPRKKIL GAVRRRRQAM ERPPALEDTE L <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b></p>

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

USH1G

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### Alternative Name:

USH1G ([USH1G Products](#))

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### Background:

Pre-mRNA splicing regulator USH1G (Scaffold protein containing ankyrin repeats and SAM domain) (Usher syndrome type-1G protein),FUNCTION: Plays a role in pre-mRNA splicing by regulating the release and transfer of U4/U6.U5 tri-small nuclear ribonucleoprotein (tri-snRNP) complexes from their assembly site in Cajal bodies to nuclear speckles, thereby contributing to the assembly of the pre-catalytic spliceosome on target pre-mRNAs (PubMed:34023904). May also participate in recycling of snRNPs back to Cajal bodies during splicing (PubMed:34023904). Plays a role in regulating MAGI2-mediated endocytosis (PubMed:24608321). 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. Required for normal hearing. {ECO:0000269|PubMed:21709241, ECO:0000269|PubMed:24608321, ECO:0000269|PubMed:34023904}.

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### Molecular Weight:

51.5 kDa

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## Target Details

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UniProt: [Q495M9](#)

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Pathways: [Sensory Perception of Sound](#)

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## 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

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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