

Datasheet for ABIN3096405  
**WDR72 Protein (AA 1-1102) (Strep Tag)**



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## Overview

Quantity:	250 µg
Target:	WDR72
Protein Characteristics:	AA 1-1102
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WDR72 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MRTSLQAVAL WGQKAPPHSI TAIMITDDQR TIVTGSQEGQ LCLWNLSHEL KISAKELLFG HSASVTCLAR ARDFSKQPYI VSAAENGEMC VWNVTNGQCM EKATLPYRHT AICYHCSFR MTGEGWLLCC GEYQDVLIID AKTLAVVHSF RSSQFPDWIN CMCIVHSMRI QEDSLLVSV AGELKVDLS SSINSIQEKQ DVYEKESKFL ESLNCQTIRF CTYTERLLL VFSKCWKVYD YCDFSLLLTE VSRNGQFFAG GEVIAHRIL IWTEGHSYI YQLNLSGLSK SIYPADGRVL KETIYPHLLC STSVQENKEQ SRPFVMGYMN ERKEPFYKVL FSGEVSGRIT LWHIPDVPVS KFDGSPREIP VTATWTLQDN FDKHDTMSQS IIDYFSGDKD GAGTAVVTSS EYIPSLDKLI CGCEDGTIII TQALNAAKAR LLEGGSLVKD SPPHKVLKGH HQSVTSLLYP HGLSSKLDQS WMLSGDLDS VILWDIFTEE ILHKFFLEAG PVTSLMSPE KFKLRGEQII CCVCGDHSVA LLHLEGKSCL LHARKHLFPV RMIKWHPVEN FLIVGCADDS VYIWEIETGT LERHETGERA RIILNCCDDS QLVKSVLPPIA SETLKHKSIE QRSSSPYQLG PLPCPGLQVE SSCKVTDKAF

CPRPFNVLPV KTKWSNVGFH ILLFDLENLV ELLLPTPLSD VDSSSSFYGG EVLRRRAKSTV  
EKKTLTLRKS KTACGPLSAE ALAKPITESL AQGDNTIKFS EENDGIKRQK KMKISKMKMQP  
KPSRKVDASL TIDTAKLFLS CLLPWGVDKD LDYLCIKHLN ILKLQGPISL GISLNEDNFS  
LMLPGWDLCN SGMIKDYSGV NLF SRKVL DL SDKYTATLPN QVGIPRGLEN NCDLRESDT  
IVYLLSRLFL VNKLVNMPLE LACRVGSSFR MESIHNKMRG AGNDILNMSS FYSCLRNGKN  
ESHVPEADLS LLKLISCWRD QSVQVTEAIQ AVLLAEVQQH MKSLGKIPVN SQPV SMAENG  
NCEMKQMLPK LEWTEELELQ CVRNTLPLQT PVSPVKHDSN SNSANFQDVE DMPDRCALEE  
SESPGEPHH SWIAKVCPCCK VS

**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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- 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

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Target: WDR72

Alternative Name: WDR72

Background: WD repeat-containing protein 72,FUNCTION: Plays a major role in formation of tooth enamel (PubMed:19853237, PubMed:25008349). Specifically required during the maturation phase of amelogenesis for normal formation of the enamel matrix and clearance of enamel proteins. May be involved in localization of the calcium transporter SLC24A4 to the ameloblast cell membrane. {ECO:0000250|UniProtKB:D3YYM4, ECO:0000269|PubMed:19853237, ECO:0000269|PubMed:25008349}.

Molecular Weight: 123.4 kDa

UniProt: [Q3MJ13](#)

## 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.

Comment: 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.

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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.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

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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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