

Datasheet for ABIN3096396

## WWP2 Protein (AA 1-870) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	WWP2
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WWP2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MASASSSRAG VALPFEKSQL TLKVVSAPKP VHNQRPRINS YVEVAVDGLP SETKKTGKRI</p> <p>GSSELLWNEI IILNVTAQSH LDLKVWSCHT LRNELLGTAS VNLSNVLKNN GGKMENMQLT</p> <p>LNLQTENKGS VVSGGELTIF LDGPTVDLGN VPNGSALTDG SQLPSRDSSG TAVAPENRHQ</p> <p>PPSTNCFGGR SRTHRHSGAS ARTTPATGEQ SPGARSRHRQ PVKNSGHSGL ANGTVNDEPT</p> <p>TATDPEEPSV VGVTSPPAAP LSVTPNPNTT SLPAPATPAE GEEPSTSGTQ QLPAAAQAPD</p> <p>ALPAGWEQRE LPNGRVYYVD HNTKTTTWER PLPPGWEKRT DPRGRFYVD HNTRTTTWQR</p> <p>PTAEYVRNYE QWQSQRNQLQ GAMQHFSQRF LYQSSASTD HDPLGPLPPG WEKRQDNGRV</p> <p>YYVNHNTRTT QWEDPRTQGM IQEPALPPGW EMKYTSEGVR YFVDHNTRTT TFKDPRPGFE</p> <p>SGTKQGSPGA YDRSFRWKYH QFRFLCHSNA LPSHVKISVS RQTLFEDSFQ QIMNMKPYDL</p> <p>RRRLYIIMRG EEGLDYGGIA REWFFLLSHE VLNPMYCLFE YAGKNNYCLQ INPASSINPD</p> <p>HLTYFRFIGR FIAMALYHGK FIDTGFTLPF YKRMLNKRPT LKDLESIDPE FYNSIVWIKE</p>

NNLEECGLEL YFIQDMEILG KVTTHHELKEG GESIRVTEEN KEEYIMLLTD WRFTRGVEEQ  
TKAFLDGFNE VAPLEWLRYF DEKELEMLC GMQEIDMSDW QKSTIYRHYT KNSKQIQWFW  
QVVKEMDNEK RIRLLQFVTG TCRLPVGGFA ELIGSNGPQK FCIDKVGKET WLPRSHTCFN  
RLDLPPYKSY EQLREKLLYA IEETEGFGQE

**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.

## Product Details

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: WWP2

Alternative Name: WWP2 ([WWP2 Products](#))

Background: NEDD4-like E3 ubiquitin-protein ligase WWP2 (EC 2.3.2.26) (Atrophin-1-interacting protein 2) (AIP2) (HECT-type E3 ubiquitin transferase WWP2) (WW domain-containing protein 2),FUNCTION: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Polyubiquitinates POU5F1 by 'Lys-63'-linked conjugation and promotes it to proteasomal degradation, in embryonic stem cells (ESCs) the ubiquitination is proposed to regulate POU5F1 protein level. Ubiquitinates EGR2 and promotes it to proteasomal degradation, in T-cells the ubiquitination inhibits activation-induced cell death. Ubiquitinates SLC11A2, the ubiquitination is enhanced by presence of NDFIP1 and NDFIP2. Ubiquitinates RPB1 and promotes it to proteasomal degradation. {ECO:0000269|PubMed:19274063, ECO:0000269|PubMed:19651900}.

Molecular Weight: 98.9 kDa

UniProt: [O00308](#)

Pathways: [Negative Regulation of Transporter Activity](#)

## 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: 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

## 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 **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months