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Datasheet for ABIN3075744

**ZCWPW1 Protein (AA 1-648) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	ZCWPW1
Protein Characteristics:	AA 1-648
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZCWPW1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence: MMTTLQNKEE CGKGPKRIFA PPAQKSYSLL PCSPNSPKKEE TPGISSPETE ARISLPKASL  
KKKEEKATMK NVPSREQEKK RKAQINKQAE KKEKEKSSLT NAEFEEIVQI VLQKSLQECL  
GMGSLDFAE TSQAQPVVST QSDKEPGITA SATDTDNANG EEPHTQEIS VSWEGEAAPE  
IRTSKLGQPD PAPSCKKSNR LTLSKRKKEA HEKVEKTQGG HEHRQEDRLK KTVQDHSQIR  
DQQKGEISGF GQCLVWVQCS FPNCGWRRRL CGNIDPSVLP DNWSCDQNTD VQYNRCDIPE  
ETWTGLES DV AYASYIPGSI IWAKQYGYPW WPGMIESDPD LGEYFLFTSH LDSLPSKYHV  
TFFGETVSRA WIPVNMLKNF QELSLELSVM KKRRND CSQK LGVALMMAQE AEQISIQERV  
NLFGFWSRFN GSNSNGERKD LQLSGLNSPG SCLEKKEKEE ELEKEEGEKT DPILPIRKRV  
KIQTQKTKPR GLGGDAGTAD GRGRTLQRKI MKRSLGRKST APPAPRMGRK EGQGNSDSDQ  
PGPKKKFKAP QSKALAASFS EGKEVRTVPK NLGLSACKGA CPSSAKEEPR HREPLTQEAG  
SVPLEDEASS DLDLEQLMED VGRELGQSGE LQHSNSDGED FPVALFGK

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is 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:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

## Product Details

- capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	ZCWPW1
Alternative Name:	ZCWPW1 ( <a href="#">ZCWPW1 Products</a> )
Background:	<p>Zinc finger CW-type PWWP domain protein 1,FUNCTION: Dual histone methylation reader specific for PRDM9-catalyzed histone marks (H3K4me3 and H3K36me3) (PubMed:32744506, PubMed:20826339). Facilitates the repair of PRDM9-induced meiotic double-strand breaks (DSBs) (By similarity). Essential for male fertility and spermatogenesis (By similarity). Required for meiosis prophase I progression in male but not in female germ cells (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q6IR42, ECO:0000269 PubMed:20826339, ECO:0000269 PubMed:32744506}.</p>
Molecular Weight:	72.0 kDa
UniProt:	<a href="#">Q9H0M4</a>

## Application Details

Application Notes:	<p>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.</p>
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</p>

Application Details

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!

Restrictions: For Research Use only

Handling

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)